

| | 260 | 270 | 280 | 290 | 300 |
|--------------------------------|-----|-------|--------|---------|----------|
| 151906 | KL | TSIT | LSALTT | YISA | YISAMCG |
| sp\|A6VH54\|CYDE_METM7 | KL | KSL | LAMLT | YSS | C.VNRGGI |
| sp\|A4FW56\|CYDE_METM5 | KL | IKSVL | LAMLT | YSS | C.VSKGGM |
| tr\|A0A21LCBR0\|A0A21LCBR0_METM1 | KL | IKSVL | LAMLT | YSS | C.VSKGGM |
| tr\|D5VSW9\|D5VSW9_METIM | KL | LSIA | LSSIMT | YISPMCG | C.VNRGGI |
| tr\|C7P8X1\|C7P8X1_METFA | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|F6BCV2\|F6BCV2_METIK | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|C9RFZ5\|C9RFZ5_METVM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|H1KZQ8\|H1KZQ8_9EURY | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|N6VPY2\|N6VPY2_9EURY | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|U5Q566\|U5Q566_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2M7BGU7\|A0A2M7BGU7_9DELT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1C7HIT9\|A0A1C7HIT9_9BURK | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R5API9\|R5API9_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R7RUE6\|R7RUE6_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A250LQ15\|A0A250LQ15_FUSVA | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|U2LETO\|U2LETO_TRESO | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A084JII4\|A0A084JII4_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2G2HHS3\|A0A2G2HHS3_9PROT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1V5HI15\|A0A1V5HI15_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A143XBT8\|A0A143XBT8_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|U2BJC7\|U2BJC7_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|X8IRIO\|X8IRIO_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1E3AMK7\|A0A1E3AMK7_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2T0B041\|A0A2T0B041_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A173YXC3\|A0A173YXC3_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A133XRP4\|A0A133XRP4_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|I3YI50\|I3YI50_ALIFI | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2V1IKY6\|A0A2V1IKY6_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A0H5Q1R2\|A0A0H5Q1R2_9ZZZZ | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1M6V4H0\|A0A1M6V4H0_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1Y4TVT2\|A0A1Y4TVT2_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A0S6U6Q0\|A0A0S6U6Q0_CLOBO | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1Y4TNG6\|A0A1Y4TNG6_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R9M2E2\|R9M2E2_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A174KZB3\|A0A174KZB3_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R5BLB6\|R5BLB6_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|N2AVU5\|N2AVU5_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R6PEW0\|R6PEW0_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|V7I8Q4\|V7I8Q4_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R6STQ3\|R6STQ3_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A173QVX9\|A0A173QVX9_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1C6J4L2\|A0A1C6J4L2_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R5IV32\|R5IV32_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|U7UMR5\|U7UMR5_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|COD015\|COD015_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1C5KLZ4\|A0A1C5KLZ4_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|C5EER9\|C5EER9_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1Y4DID9\|A0A1Y4DID9_9ACTN | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|E7GPD6\|E7GPD6_CLOSY | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|LOF518\|LOF518_DESDL | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1Y4GDP2\|A0A1Y4GDP2_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|M1PB31\|M1PB31_DESSD | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2G6FF81\|A0A2G6FF81_9DELT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2N1RFN9\|A0A2N1RFN9_9SPIR | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2S5CD51\|A0A2S5CD51_9ENTR | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R1HF92\|R1HF92_9GAMM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R7JM93\|R7JM93_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A0J6CKL6\|A0A0J6CKL6_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1T5BYL2\|A0A1T5BYL2_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A0P6X4H5\|A0A0P6X4H5_9CHLR | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R6G801\|R6G801_9BACE | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1M6WCW3\|A0A1M6WCW3_PRERU | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A171AVJ8\|A0A171AVJ8_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|K4LK2M\|K4LK2M_THEPS | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1Y3UBV3\|A0A1Y3UBV3_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1Q6GZB1\|A0A1Q6GZB1_9BACE | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A0P6X4H5\|A0A0P6X4H5_9CHLR | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|R6G801\|R6G801_9BACE | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1W9VTS4\|A0A1W9VTS4_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1I7GWW5\|A0A1I7GWW5_9PORP | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1Q3Q9S5\|A0A1Q3Q9S5_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2V1IY57\|A0A2V1IY57_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2I0N3P7\|A0A2I0N3P7_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|C3W9F7\|C3W9F7_FUSMR | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A0R3JRW1\|A0A0R3JRW1_9CLOT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1E9AGA9\|A0A1E9AGA9_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1U7M087\|A0A1U7M087_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1G7ZF40\|A0A1G7ZF40_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1M7SRV0\|A0A1M7SRV0_FERGO | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|M5Q3B7\|M5Q3B7_DESAF | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| sp\|B8DLR0\|Y1488_DESVM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| sp\|A1VGE6\|Y2496_DESVV | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A101I220\|A0A101I220_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2V2G459\|A0A2V2G459_9DELT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A212JX75\|A0A212JX75_9DELT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2N1RYH9\|A0A2N1RYH9_9SPIR | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|C5EMR9\|C5EMR9_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A2T4TB47\|A0A2T4TB47_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1Y4R8Q8\|A0A1Y4R8Q8_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1C5T2Z6\|A0A1C5T2Z6_9FIRM | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1F7AV49\|A0A1F7AV49_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1V3L349\|A0A1V3L349_9PAST | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1C5V1H8\|A0A1C5V1H8_9BACE | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|U2P4S1\|U2P4S1_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|S0FA62\|S0FA62_9BACE | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A255SNC9\|A0A255SNC9_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|F9D2C0\|F9D2C0_PREDD | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|J9G1L2\|J9G1L2_9ZZZZ | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |
| tr\|A0A1V6HXD6\|A0A1V6HXD6_9BACT | KL | IKSVL | LALTT | YISAMCG | C.VNRGGI |

tr|W4PHR0|W4PHR0_9BACE
sp|Q2RIL2|Y1414_MOOTA
tr|E3DR40|E3DR40_HALPG
tr|C7RDJ2|C7RDJ2_ANAPD
tr|D7N8J7|D7N8J7_9FIRM
tr|AOA101I867|AOA101I867_9BACT
tr|TOT8V8|TOT8V8_9FIRM
tr|AOA101HQH0|AOA101HQH0_9BACT
tr|AOA1M6M0R3|AOA1M6M0R3_9FIRM
tr|R5PQF5|R5PQF5_9BACT
tr|AOA0S7X2P6|AOA0S7X2P6_9BACT
tr|K1Z1W5|K1Z1W5_9ZZZZ
tr|AOA2N2Z618|AOA2N2Z618_9BACT
tr|AOA1M3CYU2|AOA1M3CYU2_9BACT
tr|S6A8J2|S6A8J2_9SPIO
tr|AOA1M4U177|AOA1M4U177_9CLOT
tr|TOPGZ2|TOPGZ2_9CLOT
tr|AOA1Q6NM25|AOA1Q6NM25_9FIRM
tr|AOA2T3KA22|AOA2T3KA22_9GAMM
tr|AOA101VYN5|AOA101VYN5_9FIRM
tr|AOA1T5IDD0|AOA1T5IDD0_9CLOT
tr|AOA1M6NZ58|AOA1M6NZ58_9FIRM
tr|AOA223ASF7|AOA223ASF7_9FIRM
tr|AOA2S6G0N4|AOA2S6G0N4_9CLOT
tr|AOA1H5VMB4|AOA1H5VMB4_9CLOT
tr|S3AAC6|S3AAC6_9FIRM
tr|AOA176K076|AOA176K076_9BACT
tr|AOA1M5TZM1|AOA1M5TZM1_9BACT
tr|AOA1H3EAS1|AOA1H3EAS1_9BACT
tr|E5YB10|E5YB10_BILWA
sp|A6LLR7|Y1007_THEM4
tr|R6LUT7|R6LUT7_9FIRM
tr|F2LVU2|F2LVU2_HIPMA
tr|AOA2N1SJ95|AOA2N1SJ95_9SPIR
tr|AOA1V5Q3C6|AOA1V5Q3C6_9BACT
tr|W4U114|W4U114_CUTAC
tr|AOA2X5DYA3|AOA2X5DYA3_SALET
tr|AOA0C2NJF9|AOA0C2NJF9_9VIBR
tr|G2SCC0|G2SCC0_ENTAL
tr|AOA1G6LDY3|AOA1G6LDY3_9ACTN
tr|AOA1C6LB18|AOA1C6LB18_9CLOT
tr|AOA150AAJ3|AOA150AAJ3_9BACT
tr|C5UWG8|C5UWG8_CLOBO
tr|IOGPL4|IOGPL4_SELRL
tr|FOYZ14|FOYZ14_9CLOT
tr|AOA0U5HFB9|AOA0U5HFB9_9CLOT
tr|AOA0G4K5Q4|AOA0G4K5Q4_9SPIR
tr|MLYXC3|MLYXC3_9FIRM
tr|AOA1Y4D3A3|AOA1Y4D3A3_9BACT
tr|T1DSV6|T1DSV6_9PORP
tr|R5K3Y4|R5K3Y4_9BACE
tr|AOA0A2FDZ8|AOA0A2FDZ8_9PORP
tr|AOA0E9LTM7|AOA0E9LTM7_9BACT
tr|AOA096CTK4|AOA096CTK4_9BACT
tr|AOA1T4LDG9|AOA1T4LDG9_9PORP
tr|U6RQI6|U6RQI6_9BACE
tr|AOA2T4TUJ1|AOA2T4TUJ1_9BACT
tr|AOA1V5EBL5|AOA1V5EBL5_9DELTA
tr|AOA174ES44|AOA174ES44_9BACT
tr|R5PXC6|R5PXC6_9BACT
tr|E1GXV0|E1GXV0_9BACT
tr|R6Y5C6|R6Y5C6_9BACT
tr|AOA1H5SVZ9|AOA1H5SVZ9_9BACT
tr|AOA2U0U4Y1|AOA2U0U4Y1_9BACT
tr|D1W896|D1W896_9BACT
tr|E6MQP7|E6MQP7_9BACT
tr|E4T7H0|E4T7H0_PALPW
tr|AOA133YX9|AOA133YX9_9BACT
tr|AOA0D8JEE4|AOA0D8JEE4_9BACT
tr|W4UV02|W4UV02_9BACE
tr|AOA161RAB3|AOA161RAB3_9FIRM
tr|AOA255T3U3|AOA255T3U3_9BACT
tr|AOA1C5RAF1|AOA1C5RAF1_9FIRM
tr|D9Y8N5|D9Y8N5_9BURK
tr|AOA2N4S738|AOA2N4S738_9BACT
tr|AOA16PR96|AOA16PR96_9PORP
tr|R5JFT9|R5JFT9_9BACE
tr|J9C487|J9C487_9ZZZZ
tr|AOA1M3FU28|AOA1M3FU28_9BACT
tr|AOA2R3MQS7|AOA2R3MQS7_9BACE
tr|AOA2T5BZ72|AOA2T5BZ72_9BACT
tr|F5IYA2|F5IYA2_9BACT
tr|AOA2T5BXU0|AOA2T5BXU0_9BACT
tr|AOA1V5I3Q4|AOA1V5I3Q4_9BACT
tr|AOA1M3FLX8|AOA1M3FLX8_9BACT
tr|AOA1Y4HPA5|AOA1Y4HPA5_9BACT
tr|AOA1M3MC81|AOA1M3MC81_9BACT
tr|AOA1Q3KTB1|AOA1Q3KTB1_9BACT
tr|F7KI60|F7KI60_9FIRM
tr|C2CGI7|C2CGI7_9FIRM
tr|AOA1V5P9J8|AOA1V5P9J8_9FIRM
tr|AOA2S7ZDJO|AOA2S7ZDJO_9FIRM
tr|AOA1W1VEG8|AOA1W1VEG8_PEPAS
tr|G5IEG1|G5IEG1_9CLOT
tr|U7VFT7|U7VFT7_9FUSO
tr|AOA2S4GQ19|AOA2S4GQ19_9FIRM
tr|R51577|R51577_9BACT
tr|AOA2M6ZWR1|AOA2M6ZWR1_9CHLR
tr|AOA1F0FV87|AOA1F0FV87_9PORP
tr|AOA2X1XJ55|AOA2X1XJ55_PORCN
tr|AOA1Q4P1Z1|AOA1Q4P1Z1_SERMA
tr|AOA2I4NZH5|AOA2I4NZH5_CLOBO
tr|R5SEH4|R5SEH4_9BACE

.....EL...I...RALV...LSH...LT...V...I...Y...K...Q...SL...G...RLS...SAL...CG...CVV...AAT...GS...SC...GIT...W...LM...G...GD...
.....SV...T...RALA...IAH...FT...N...MY...LK...A...YT...G...KLS...SPL...CG...AVT...GGA...GV...AAA...ICW...LLE...G...GSC...
.....KL...L...RALA...LSN...LL...T...LY...IK...T...AT...G...SLS...AM...CG...VAV...AGV...GV...SAS...TY...LLG...G...GG...
.....EL...E...RALI...FSN...L...IAL...Y...IK...N...KI...G...KLS...AY...CG...VVS...ASAAA...IAS...IAFIN...K...K...
.....SL...Y...RALI...FAN...L...L...IG...LY...MK...Q...GI...G...KLS...AY...CG...VVS...AGV...GV...SAS...TY...LLG...G...GG...
.....DI...I...RAVA...LSH...LFS...GY...IK...N...KL...G...MVAP...ICG...CVTA...AGT...GA...TAG...I...V...LLG...G...GT...
.....EL...Y...RALV...FAN...LLT...LV...VK...S...GI...G...KLS...AY...CG...VVS...AGV...GV...SAS...TY...LLG...G...GT...
.....DI...I...KAVA...ISH...LFS...GY...IK...K...KL...G...RVAP...ICG...CVTA...AGT...GA...TAG...I...V...LLG...G...GS...
.....NM...Y...RALV...FAN...LVA...I...Y...IK...S...KI...G...SLS...AF...CG...AVS...AAT...AV...SGAI...TY...LLR...G...G...
.....EL...I...RALT...LSH...LTA...I...Y...IK...Q...SL...G...KLS...AL...CG...CVV...ASI...GS...SCAI...TY...LLG...G...GD...
.....KL...A...KAFA...LSH...LVT...LY...AS...K...HI...G...WLS...AL...CG...A...PTK...AGI...GA...TAG...I...TY...LLG...G...GIS...
.....EL...A...RALT...LSH...LVA...I...HI...K...G...YL...G...KLS...AL...CG...CVIA...STGA...AAG...I...V...LLN...G...GS...
.....EL...A...RALV...LSH...LIA...I...HI...K...G...YL...G...KLS...AL...CG...CVIA...STGA...SCG...I...V...LLR...K...G...GS...
.....EL...A...RALV...LGH...LVA...I...HI...K...R...YL...G...KLS...AL...CG...CVIA...STGA...SCG...I...V...LLR...G...GN...
.....KL...I...RSL...LSN...LLA...I...HI...K...T...GI...G...RLS...AY...CG...AVT...AGA...AC...AAV...TY...MK...G...G...
.....QL...V...KALA...ISH...IT...TY...IK...Q...FT...G...RLS...SV...CG...CGVA...AGV...GA...ACG...I...CY...LLG...G...GK...
.....TL...R...RAVF...LGH...VV...N...F...VK...K...YT...G...KLS...AT...CG...CAIA...AGI...GA...SV...GV...SW...LLG...G...GKD...
.....KL...C...RSVL...VSN...LIA...I...HI...K...Y...YI...G...SLS...AY...CG...AVS...AAC...GA...GAG...TY...MY...G...G...
.....QL...A...RALI...MSH...LGA...I...Y...MK...S...FY...P...PLS...PF...CG...CAV...TSS...AA...SMAM...TY...LQ...G...GS...
.....TT...I...RAVA...LSCL...IS...Y...VK...S...SF...G...RLS...AL...CG...ATV...AAT...GA...SSG...I...V...LLG...G...GSL...
.....RL...A...RSIA...LSFL...IT...TY...IK...E...YS...G...RLS...AF...CG...CAIA...AGT...GA...SVG...I...V...LLG...G...GNY...
.....SM...I...RAVA...LSCL...IT...TY...IK...A...SF...G...RLS...AL...CG...ATV...AAT...GS...SCG...I...V...LLG...G...GNL...
.....KL...I...RATA...LSY...LVT...CT...Y...IK...E...YS...G...KLS...AF...CG...CAIA...AGS...GM...ATAL...V...LDG...G...GDT...
.....EL...A...RALA...LSN...LVT...I...HI...K...S...YI...G...RLS...AL...CG...AGIA...SIG...GS...SAAT...TY...LLG...G...GK...
.....KL...A...RAIA...ISH...LIT...Y...HI...K...N...HL...G...RLS...SV...CG...CGVA...AGI...GA...SCG...IT...Y...LLG...G...GT...
.....EL...Y...RALV...FAN...LLT...LV...VK...S...GI...G...KLS...AY...CG...VVS...AGI...VS...VAG...I...AFL...K...G...G...
.....KV...S...KALI...LSH...LFG...V...FI...K...A...KL...G...RLT...PT...CG...AANA...AAPAA...AAG...I...TY...LLG...G...GS...
.....LI...L...KATL...LSIF...VT...TY...IK...A...YT...G...LTP...TCG...AGIT...SAS...GS...AAG...L...TY...LK...G...GN...
.....ET...A...KAVT...LSH...LTF...S...FI...K...S...RT...G...RLS...PT...CG...CTVA...AGA...GA...AAG...I...TY...LLS...QD...
.....KL...A...EALA...LSH...LVC...GY...IK...A...YT...G...RLT...PT...CG...CAVA...AGA...GA...AAG...I...V...RL...HG...G...GT...
.....KL...L...KATL...LSIL...VT...TY...IK...A...YT...G...LTP...TCG...AGSI...SSAG...GA...AAG...L...TY...LK...G...GN...
.....QL...L...RALA...LSD...LIT...I...HI...K...T...GI...G...RLS...AY...CG...AIS...AGV...GA...GAG...I...CY...L...G...G...
.....KT...T...KAVM...LSCF...IT...S...LT...IT...S...KF...G...FVS...ST...CG...VHHA...AAV...GV...IGG...IL...Y...L...K...NR...
.....SL...F...HGAA...FGV...AL...I...AT...MK...E...KT...G...IIT...SL...CG...CSIT...SALA...A...SAL...AW...GM...G...GSE...
.....RI...L...PAAL...LALL...LAG...I...HMT...A...KRT...G...RISE...ECG...L...GTK...ASPAL...AAG...LAY...ARG...ADC...
.....RR...V...RAWP...SLTP...SP...ST...P...P...GF...P...CSP...L...SVL...RPQ...Q...WVR...RPQ...G...AWR...C...
.....RL...A...RALM...LSH...LSA...I...Y...YS...S...SAF...R...VCR...RCA...RQP...RRR...G...SSAR...W...RG...
.....TM...I...RALM...LSH...LMA...I...Y...IK...S...HQN...KLS...AL...CG...ATT...ASM...GA...VAG...MT...W...LLG...G...GQ...
.....RL...A...RALM...LSH...LAA...I...Y...HI...K...Y...QL...P...RLS...AL...CG...ATT...AAM...GA...AAG...MA...W...LMD...GR...
.....EL...Y...RAVV...LSD...LTAV...HV...K...Y...FI...G...ELS...AF...CG...AVS...ASC...GA...GAG...I...CM...LR...G...G...
.....KL...L...RALV...LSN...LVT...I...HI...K...T...GI...G...TLS...AY...CG...AVS...AGCS...GAG...I...AY...L...G...G...
.....EM...Y...RALM...VSH...LST...V...HI...K...T...NV...G...RLS...AY...CG...VMT...ASA...AV...SGAL...V...YLD...G...G...
.....KL...Y...RSLI...VSN...LIT...I...HI...K...T...GI...G...RLS...AF...CG...AVS...AGCG...GA...GAG...I...AY...L...G...G...
.....KL...Y...RALL...LAN...LVT...I...HI...K...E...GI...G...RLS...AY...CG...AVS...AGAG...GA...GAG...I...AW...L...C...S...
.....KL...F...RALA...LSN...LVA...I...HI...K...T...GI...G...RLS...AY...CG...AVS...AGAAA...GAG...I...AY...L...G...G...
.....KM...Y...RALA...LSN...LAA...I...HI...K...T...PI...G...RLS...AY...CG...AVN...AGA...GA...GAG...I...AY...L...C...D...
.....KL...Y...RALV...LSN...LIA...L...HI...K...K...HI...G...KLS...AF...CG...VVC...AAT...GS...ASA...I...AY...LH...D...
.....KL...Y...RALV...LSN...LVS...I...Y...IK...S...KI...G...ELS...AF...CG...TVS...AAC...GS...GAG...I...F...LH...G...
.....QL...I...RALM...LSH...LMV...I...Y...IK...Q...SL...G...RLS...AL...CG...CVV...AAT...GA...SCG...IT...W...LMG...G...GN...
.....KT...I...RALM...LSN...LMV...V...Y...IK...Q...KL...G...RLS...AL...CG...CVV...AAT...GS...ACG...IT...Y...LMG...G...GS...
xxseel...I...RALM...LSH...LTV...I...Y...IK...Q...SL...G...RLS...AL...CG...CVV...AAT...GS...SCG...IT...W...LMG...G...GT...
.....RT...Y...RALV...LSN...LMV...I...Y...IK...Q...KL...G...RLS...AL...CG...CVV...AAT...GS...SCGL...TY...LMG...G...GT...
.....QL...V...RALA...LSN...LMV...I...Y...IK...R...GL...G...RLS...GL...CG...VTV...AGI...GA...SCGM...TY...LMG...G...GT...
.....EL...Y...RALT...LSH...LTA...I...Y...IK...Q...NL...G...TSL...AL...CG...CIV...AST...GS...SCG...IT...Y...LMG...G...GD...
.....ET...V...RALV...LSN...LMV...I...Y...IK...Q...KL...G...RLS...AL...CG...CVV...AAT...GS...SCGL...TY...LMG...G...GT...
.....EL...I...RALV...LSH...LTV...I...Y...IK...Q...SL...G...RLS...AL...CG...CVV...AAT...GS...SCG...IT...Y...LMG...G...GN...
.....EL...I...RALT...LSH...LTA...I...Y...IK...Q...SL...G...VLS...AL...CG...CVV...ASI...GS...SCG...IT...Y...LMG...G...GD...
.....QL...L...RALV...LSY...LTV...I...Y...IK...T...FT...G...VLS...PT...CG...CGVA...AAV...GA...GCG...I...F...LLG...G...GE...
.....QL...I...RALM...LSH...LMV...I...Y...IK...Q...SL...G...RLS...AL...CG...CVV...AAT...GA...SCAI...TY...LMG...G...GN...
.....EL...I...RALT...LSH...LTA...I...Y...IK...Q...SL...G...KLS...AV...CG...CVV...ASI...GS...SCG...IT...Y...LMG...G...GD...
.....EL...I...RALT...LSH...LTV...I...Y...IK...Q...SL...G...RLS...AL...CG...CVV...SSI...GS...SCG...IT...Y...LMG...G...GD...
.....QL...I...RALM...LSH...LMV...I...Y...IK...Q...SL...G...RLS...AL...CG...CVV...AAT...GA...SCG...IT...Y...LMG...G...GD...
.....QL...I...RSLM...LSH...LMV...I...Y...IK...Q...SL...G...RLS...AL...CG...CVV...AAT...GA...SCG...IT...W...LMG...G...GS...
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.....EL...I...RALT...LSH...LSA...I...Y...IK...Q...SL...G...KLS...AL...CG...CVV...ASI...GS...SCG...IT...Y...LMG...G...GT...
.....EL...I...RALT...LSH...LTA...I...Y...IK...Q...SL...G...KLS...AL...CG...CVV...ASI...GS...SCG...IT...Y...LMG...G...GT...
.....EL...I...HALA...LSH...LMT...I...Y...IK...Q...SL...G...RLS...GL...CG...AIV...AAT...GS...ACG...IT...Y...LMG...G...GT...
.....EL...I...RALV...LSH...LTA...I...Y...IK...Q...SL...G...KLS...AL...CG...CVV...ASI...GS...SCG...IT...Y...LMG...G...GT...
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.....SF...L...RALA...LSFL...IT...LY...IK...S...HI...G...RLS...AL...CG...CAVA...SCMG...GS...GAG...I...AY...LMN...LGE...
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.....TL...Y...RALV...LAN...LVS...I...Y...IK...V...FI...G...KLS...AY...CG...AVS...AAGA...VSG...I...AW...LD...G...G...
.....QM...Y...RALT...LSH...LTS...V...Y...IK...Q...SL...G...RLS...AL...CG...CVV...AST...GA...STA...IT...W...LMG...G...G...
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.....DL...V...RALA...LSH...LMV...I...Y...IK...R...RL...G...RLS...AL...CG...VTV...AGI...GA...ACG...IT...H...LMG...G...GN...
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.....EL...I...RALM...LSH...LTV...I...Y...IK...Q...SL...G...RLS...AL...CG...CVV...AAT...GS...SCG...IT...W...LMG...G...GD...
.....EL...I...RALT...LSH...LMT...I...Y...IK...Q...SL...G...RLS...GL...CG...AIV...AAT...GS...SCG...IT...Y...LMG...G...GS...
.....EL...I...RALA...LSN...LMT...I...Y...IK...Q...SL...G...RLS...GL...CG...AIV...ATT...GS...ACG...IT...Y...LMG...G...GT...
.....KL...I...RAVI...VSD...LVA...I...Y...IK...K...GI...G...KLS...AF...CG...ALC...AGI...GA...ACG...I...SYLT...G...G...
.....DL...Y...RALI...FSN...L...IAL...Y...IK...N...EI...G...KLS...AY...CG...VVS...ASAAV...ISS...IAFIN...K...K...
.....RE...L...RAIA...LAA...L...N...IF...G...K...S...YI...G...ALS...AT...CAIA...SGL...GA...SIG...I...CY...LLG...G...G...
.....EL...Y...RVLV...FAN...LLT...LV...VK...T...GI...G...KLS...AY...CG...VVA...AGV...VS...VAG...I...AFL...K...G...G...
.....EL...Y...RALV...FAN...LIG...LY...IK...Q...GI...G...KLS...AY...CG...VVS...AAS...AS...VCG...I...GY...LN...N...
.....Y...A...LRATA...LSY...LVC...MY...IK...E...YS...G...KLS...AF...CG...CAIA...AGT...GM...ACGL...W...LLR...G...GSV...
.....QL...I...RGLF...FSL...HT...I...HI...K...S...NV...G...RLS...AY...CG...VVC...AGGV...AGAL...F...LD...G...G...
.....AL...H...RAMI...FAN...LST...I...Y...IK...R...GI...G...KLS...AY...CG...AVN...AGCAA...VCG...I...AY...LD...G...G...
.....QL...I...RALT...LSH...LTA...I...Y...IK...G...YL...G...KLS...AL...CG...CVA...STGS...ACG...I...V...W...LSG...G...GT...
.....RL...L...KSIL...LSH...I...V...TR...IIS...N...YT...G...DLS...AL...CG...C...FNK...SAI...GA...AAG...L...TY...LLG...G...GKE...
.....KR...I...RALM...LSN...LMV...I...Y...IK...Q...KL...G...RLS...AL...CG...CVV...AST...GS...ACG...IT...Y...LMG...G...GT...
.....QK...I...RALM...LSN...LMV...I...Y...IK...Q...KL...G...RLS...AL...CG...CVV...AST...GS...ACG...IT...Y...LMG...G...GS...
.....EL...V...RAVT...LSH...LVA...I...ST...H...S...RYA...RLS...AL...CA...AST...AAM...GA...AAG...MA...W...LLS...KD...
.....RL...Q...RAVF...FGH...AVN...N...F...G...K...YT...G...KLS...AT...CG...CAIA...AGI...GA...TAG...I...AW...LLG...G...GKD...
.....KL...A...RALI...LSN...LVA...I...HI...K...G...YL...G...RLS...AL...CG...CVV...A...STGS...SCG...I...V...W...LLG...G...GS...

tr|A0A1M5S8F6|A0A1M5S8F6_9CLOT R|L . Y|RAIF . L|GHAVNNFVK K YTG KLSAMCG . . CA|IA . AG|GA . GAA|ITWMLG . GTD .
tr|R7EVQ5|R7EVQ5_9BACT HT . . L|RALA . LSNLVSIIYIK Q GLG RLSALCG . . CVV . . AGTGA . SSGIAYLMG . AD . .
tr|A0A2N5Z193|A0A2N5Z193_9BACT LI . . L|RATA . LSLCLITGFIK E RLG KLSPICG . . CVA . . SSGS . GAA|ITFING . H . P .
tr|A0A259UN51|A0A259UN51_9FIRM QL . . L|RATA . LSYLICMYIK E YSG RLSAFCG . . CA|IA . AGSGM . ACAL|YLRG . GTV .
tr|C3JBP9|C3JBP9_POREA OT . . I|RALV . LSNLMVIYVK Q KLK RLSALCG . . CVV . . AATGS . SCGLYLMG . GS .
tr|C3WG74|C3WG74_FUSMR DM . . I|RGLF . FSHMTIHIK S NIG RLSAYCG . . AIC . . ASAGV . AGAISFLS . G . .
tr|A0A0U9HF52|A0A0U9HF52_9THEO KL . . V|RSIL . LSYLVTMYIK T FAG RLSAFCG . . CA|IA . AGTGS . SAGICCLLG . GNN .
tr|R5KGZ4|R5KGZ4_9BACT ET . . I|RALI . LSNLTAIYIK Q HLG SLSALCG . . CVV . . ASTGS . SCGITYLMG . GS .
tr|U2SF48|U2SF48_9FIRM RT . . F|RAVT . LSNLMAIHIK A DFG PLSGLCG . . ATI . . AAAAA . ACGLVYLG . GTL .
tr|A0A1K1LIF7|A0A1K1LIF7_9DELT EL . . A|RALM . MSHLTSIHIK H HLG RLSAHCG . . AMV . . AATAA . CGCIALLG . GD .
tr|A0A134AK51|A0A134AK51_9FIRM KL . . I|RATA . LSYLICMYIK E YSG RLSAFCG . . CA|IA . AGTGM . ACGLAYLRD . GNL .
tr|A0A0M1IUF1|A0A0M1IUF1_9CLOT TL . . A|RSIA . LSYIINIYIK E FSG KLSAFCG . . CA|IA . AGTGV . SAGICYLLG . GES .
tr|C0C5L4|C0C5L4_9FIRM IL . . L|RATA . LSYLITMYIK E YSG KLSAFCG . . CG|IA . AGTGM . ACGLAFMRN . ASE .
tr|F3ZP77|F3ZP77_9BACE DL . . A|RALI . LSHLTAIYIK Q SLG RLSALCG . . CVV . . SGTGS . SCGITYLMG . GG .
tr|A0A098BXJ4|A0A098BXJ4_9PORP QL . . I|RALI . LSNLSMIYIK Q HIG RLSALCG . . CVV . . ASTGS . SCGITYLMG . GN .
tr|A0A1C7ID61|A0A1C7ID61_9FIRM TT . . L|RAVA . LSLCLITHVK Q YIG KLSPLCG . . CGTG . SAI . GS . ACAL|TWLGS . GH .
sp|C5CEY4|Y595_KOSOT EI . . A|KAIA . LSHLVLGYIK S RLK KVTPTCG . . AANA . AGPAA . AAGIYVLMN . GS .
tr|B9DZB9|B9DZB9_CLOK1 KL . . I|RALA . LSNLMAIHIK S NLG RLSALCG . . CVVA . . STGA . CCGITYIFG . GK .
tr|A0A1W1XRL1|A0A1W1XRL1_9CLOT TL . . I|RALA . LSNLVAIHIK S NLG RLSALCG . . CVVA . . STGA . CTGITYILG . GK .
tr|R5AJ55|R5AJ55_9FIRM EI . . I|RGVA . LSLCLITIFS H YTG RLSALCG . . CVL . . GGS . GAA|ITVLMG . GGA .
tr|N1JU37|N1JU37_9BACT DI . . A|KAIA . LSNLHFSGYIK N KLK RVAPICG . . CVTA . AGTGA . AAGITYLLG . GA .
tr|A0A0G2Z8T6|A0A0G2Z8T6_9BACT KI . . S|KAII . LSHLTFVGYIK G KLK RLTPICG . . ATNA . AAPAA . AAGITYLLG . GS .
tr|K2Q853|K2Q853_9BACT KL . . I|RATA . LSLILVTIYIK A YTG RLTPICG . . AGST . SAAGS . AAGLTYINN . GN .
tr|H2J3N8|H2J3N8_MARPK KV . . L|KAIL . LSNLMTIYIK A YTG VLTPTICG . . AGSI . APAGA . AAGIYVLYG . GN .
tr|A0A0H2ST44|A0A0H2ST44_9BACT KM . . K|KALL . LSNLITTIYIK S YTG VLTPTICG . . AGSV . ASAGV . AAGIYVLYG . GT .
tr|A0A1V6A0Z4|A0A1V6A0Z4_9BACT EL . . A|EALA . LSHLVTGFIK A HTG RLTPVCG . . CA|IA . AGAGA . AALVRLGG . GT .
tr|S7T1X0|S7T1X0_9DELT EL . . A|EALA . LSHLVTGAVK V KTG RLTPVCG . . CAVA . AGSGA . AALVRLAG . GD .
tr|G7V7I3|G7V7I3_THELD SL . . A|EALA . LSHMVTSAIK A HTG RLTPICG . . CAVA . AGSGA . AALVRLCG . GT .
tr|A0A1F9QEB7|A0A1F9QEB7_9BACT RI . . L|RSIA . LSHLNVSYIK V FTG ELAPICG . . CAVA . AGVGA . SVAIYWQRS . GA .
tr|A0A1F9T7I4|A0A1F9T7I4_9BACT RI . . L|KSIA . LSHLVNSYIK V FTG ELAPICG . . CAVA . AGVGA . SVAIYWQRS . GP .
tr|A0A1X7E876|A0A1X7E876_9DELT EL . . A|EALA . LSHLVTGAVK A KTG RLTPVCG . . CS|IA . AGAGA . AALVRLAK . GT .
tr|S7U3L9|S7U3L9_9DELT EL . . A|EALA . LSHLVTGAIK A RTG RLTPICG . . CAVA . AGAGA . AALVRLAG . GS .
sp|A7HMJ2|Y1278_FERNB KI . . E|KAVL . LSLILVTIYIK A FTG VLTPTICG . . AGSI . ASAGS . SAAITYLAG . GN .
tr|A0A1V5I1I1|A0A1V5I1I1_9BACT ET . . A|KAIA . FSHLTSYVYK S RTG RLTPICG . . CSVA . AGAGA . AAMVYLYKT . KD .
tr|A0A1L7BFJ2|A0A1L7BFJ2_9BACT KL . . L|KATL . LSLILVTIYIK A YTG RLTPICG . . AGTI . SAAGA . AAGLTYINN . GN .
tr|A0A1E5HX95|A0A1E5HX95_9FIRM EI . . F|KATM . LAHLVNGHYAK I YVG RLSALCG . . LFYA . AAPGV . LAALLYL . A . GKA .
tr|E2NRI0|E2NRI0_CATMR KK . . L|KALA . LTHLVNRYIN A HIG KLSPMCT . . CVMA . SSTSA . SVGIAYLLD . AT .
tr|I8RL19|I8RL19_9FIRM RL . . A|RAIA . ISLGITIYIK V RTD HLPALFG . . RPVA . AVSGA . SAAITWLMN . GD .
tr|A0A2IOFCX5|A0A2IOFCX5_9GAMM QL . . A|RALI . LSHLGAIYIK Q HYP PLSAFCG . . NTV . TSASA . AMAMVYLAG . GN .
tr|U2CTP5|U2CTP5_9CLOT DG . . Y|RAVA . FGLLVNTYIK Y LSK . EYV . YMPPTCS . CAAT . SAPAS . AAGVAFHKG . LS .
tr|A0A1Q6KJL3|A0A1Q6KJL3_9FIRM DG . . Y|RAVA . FALLMNTFMK Y ASK . EYV . YMPPTCS . CATT . AAPAA . AAGVAFHKG . LT .
tr|A0A1V6JAV4|A0A1V6JAV4_9BACT AI . . L|PAVV . FTLLAQVYLT A KHK RLSAECG . . I . ATK . AAPAL . AAGLAFARG . AGP .
UniRef100_A0A174CRQ0 LL . . Y|RGLV . FSNLMTIHIK T GIG RLSAFCG . . AVS . AGCAS . GAAITYLE . G .
UniRef100_A0A174N3S7 VL . . Y|RALV . FSNLLTVYQK Q YIG KLSAFCG . . AVS . ASCAA . GAAITYMG . G .
UniRef100_A0A1H7BL91 KL . . Y|RGLV . LANLLTIHIK T LIG RLSAFCG . . GVS . ASCSS . GAAITYLA . G .
UniRef100_A0A1H8XEWA RL . . Y|RGLV . LSNLLTIHIK T SIG RLSAFCG . . AVS . AACSS . GAAITYLA . G .
UniRef100_A0A1M6HFG6 KL . . Y|RALV . VSNLVSIIHIK S KIG KLSAYCG . . AVS . AACSS . GAAITYLH . G .
UniRef100_A0A1S9CDUH QL . . Y|RGLA . FANLMTIYQK T FIG RLSAFCG . . AVS . ASCAS . GSAMTYLA . N .
UniRef100_A0A1V2LVJ5 QL . . Y|RALV . FANLMTIHIK S LIG RLSAFCG . . AVN . AACAS . GAAITYLC . G .
UniRef100_A0A1W2DLF5 KL . . Y|RGLL . FSNLLTIHIK T LIG RLSAFCG . . AVS . ASCSS . GAAITYLE . G .
UniRef100_A0A2V3XXD9 KL . . V|RALV . FSNLLTIHIK T GIG RLSAYCG . . AVS . AACGA . GAGITYLS . G .
UniRef100_A0A316LX84 KL . . I|RALV . LSNLIAIHEK M AVG RLSAYCG . . AVS . AACGS . GAAITYLH . N .
UniRef100_A0A353LWZ7 TL . . F|RALC . VSNLIAIHIK T SIG LLSAYCG . . AVS . AACGS . GAGITYML . G .
UniRef100_A0A356BVF5 KL . . F|RALC . VSNLVAIHIK T GIG RLSAYCG . . AVS . AACGS . GAAITYML . G .
UniRef100_A0A359AUT6 EL . . I|RALI . LSNLTTIYIK Q KVG RLSGLCG . . AVY . ASVGA . ACAITYLMG . GN .
UniRef100_A0A395YNH5 VL . . Y|RALV . FSNLLTIYQK T YIG KLSAFCG . . AVS . ASCAS . GAAITYMV . G .
UniRef100_A0A402BP96 SL . . Y|RGLV . FSNLLNHIK T FIG RLSAFCG . . AVS . AACAS . GAAITYLA . G .
UniRef100_A0A413LQ61 KL . . V|RALV . FSNLLTIHIK T GIG RLSAYCG . . AVS . AACGA . GAGITYLL . S .
UniRef100_A0A416BC47 VL . . Y|RALV . FSNLLTVYQK Q YIG KLSAFCG . . AVS . ASCAA . GAGITYMV . G .
UniRef100_A0A5B9YBV7 KL . . Y|RALV . FSNLLTIHIK T FIG RLSAFCG . . AVS . ASCAS . GAAITYLE . R .
UniRef100_G8QTP6 KL . . I|RALA . LSNLIAIHIK S FIG RLSAYCG . . AVT . AASGA . GAAITWLF . G .
UniRef100_L1Q747 KL . . Y|RGLV . FSNLLTIHIK T GIG RLSAFCG . . AVS . AGCAS . GATITYLD . G .
UniRef100_N9XUA2 QL . . Y|RGLV . FSNLMTIHIK T GIG RLSAFCG . . AVS . AGCAS . GAAITYLK . G .
UniRef100_R6G079 LL . . Y|RALV . FANLINIHIK A GIG RLSAFCG . . AVT . SGCAS . GAGITYLE . G .
UniRef100_S3L3U3 RL . . L|RGLL . VSNLVAIHIK T RIG RLSAYCG . . AVS . AACGS . GAAITYLA . G .
UniRef100_S3LBC8 KL . . L|RGLL . VSNLIAIHIK T RIG RLSAYCG . . AVS . AGCGS . GAGITYLS . D .
UniRef100_UP10003123980 RM . . F|QALA . LSNLITVHLK T GIG RLSAYCG . . AVS . AACGA . FSAITWLA . G .
UniRef100_UP100059A8ADD QL . . Y|RGLV . FSNLVTIHIK T GIG RLSAFCG . . AVC . AGCAS . GAGITYLS . R .
UniRef100_UP10006D86209 KI . . Y|RALV . FSDLITIHIK T FIG RLSAFCG . . AIS . ASCAS . GAAITYLE . G .
UniRef100_UP10006DC3002 QL . . Y|RGLV . FSNLMTIHIK Q GIG RLSAFCG . . AVS . AGCAS . GAAITYLE . G .
UniRef100_UP1000930BB27 KL . . Y|RALC . LSNLISLYIK T GVG KLSAYCG . . AVS . AASAC . GAGIAYLMQ . G .
UniRef100_UP1000C7D41A5 IL . . Y|RALV . FSNLLTVYQK T YIG KLSAFCG . . AVS . ASCAS . GAAITYMV . G .
UniRef100_UP10010671517 QL . . C|RALV . VSNLVAIHIK Y KVG RLSAFCG . . VVS . AGAAA . AGIAFLQ . G .
UniRef100_UP10012B2C99E KL . . I|RALA . LSNLLAIHIK T LIG RLSAYCG . . VVC . AACGS . GAAITWLD . G .
UniRef100_A0A017RVN8 EL . . A|KALA . ISHITTIYIK Q YTG RLSAICG . . CGVA . AATGA . AVAICYLLG . GW .
UniRef100_A0A034T1R7 QL . . A|RALM . LSHLTAIYIH S KLK TLSALCA . A . TT . AAMGA . AAGIAWLLD . GR .
UniRef100_A0A037Z1V7 KI . . I|RAVA . LSHLVTIYIK S YTG PLSPVCG . . CGVA . AGVGA . SAGLSYALN . GN .
UniRef100_A0A064DLW3 KL . . A|RALM . LSHLSAIYIH H QLP RLSALCA . A . TT . AAMGA . AAGMAWIVD . GR .
UniRef100_A0A069RM78 RL . . A|KALA . ISHLVISYVK N YTG RLSAVCG . . CGVA . ASVGS . AAAITWLMG . LGY .
UniRef100_A0A073ITX9 ET . . A|KAIA . VSHIATSEVK H NLG RLSPLCG . . CAVA . AGAGA . AAGMTYLLG . GD .
UniRef100_A0A075KFF0 TL . . T|RALI . LSHMMAIYIH D KLK KLSALCA . V . TT . ASMGS . AAGMAWLLK . GD .
UniRef100_A0A076LH42 KL . . I|KSIT . LSLAATTIYSA Y HSS YISAMCG . . C . VNRGIGV . VSCLSYIFG . GS .
UniRef100_A0A081BZ02 TL . . A|RALM . LSHFITIHLR Q HFD RLSAMCG . . A . VA . AGTGA . AGIAAYLLG . GT .
UniRef100_A0A081C875 RV . . I|KSIA . FSHLLNSYVK C YTG DLSPVCG . . CA|IA . AGVGA . AAAIVYQQA . GK .
UniRef100_A0A085ABB7 KL . . A|RALM . LSHLCAIYIH F QLP RLSALCA . V . TT . ASMGA . AAGMAWIVD . GR .
UniRef100_A0A085HE69 RL . . A|RALM . LSHLSAIYIH Y QLP KLSALCA . A . TT . AAMGA . AAGMTWIVD . GD .
UniRef100_A0A086YYH2 QR . . I|RALA . MSHLIAIYIH S FLK ILGPFCA . T . DS . ASMGA . AAAVYVLMG . ED .
UniRef100_A0A089Q193 QL . . T|RALI . LSHLTAIYIH H QLP TLSALCA . A . TT . AAMGA . AAGMLWLLD . GS .
UniRef100_A0A090JPN8 RL . . Y|RALI . FANLLGLYMK E GIG KLSAYCG . . V . VS . AASAS . VCGIAMLK . G .
UniRef100_A0A094JMB3 QL . . I|RALM . LSHLLAIYIK H HOH KLSALCA . V . TT . AAMGS . AGIAYLLG . GS .
UniRef100_A0A096AJM6 RT . . V|RALV . LANMLLAIYIK S GIG RLSAYCG . . V . VS . SSSAT . VAAITWLL . G .
UniRef100_A0A096KME8 RL . . Y|RALV . LSLDIAVHIK S YIG ALSAFCA . A . IC . AACGA . GAAITWLLC . G .
UniRef100_A0A098F5F2 QM . . I|RAVA . LSHLVTIHIK S KFG RLSALCG . . V . TA . AGMGA . SAAIVYLLG . GSL .
UniRef100_A0A0A2E6A5 VT . . T|RALM . MSLLMVYVVK Q LLG RLSCLCG . . M . VV . SGI . GS . AAAIVYIMG . GS .
UniRef100_A0A0A2Y2Q1 QR . . T|RALF . LSHLIAIFIH S KLK KLSALCA . V . TT . AAMGS . CAGISYLLT . NK .
UniRef100_A0A0A3AP03 KL . . A|RALF . LSHLMAIFIH S KLK KLSALCA . V . TT . ASMGS . CAGIAWLLT . GK .
UniRef100_A0A0B0BT87 KK . . I|RALI . LSNLTVIYIK Q SLG RLSALCG . . CV . VV . AATGS . SCGITYLMG . GG .
UniRef100_A0A0B7MGZ7 RE . . L|RGLL . YSNLLTIYAK E FIG RLGSACG . . AAIC . AGVGV . AAATWMLG . GTD .
UniRef100_A0A0C1U077 VL . . V|RALA . MSHLITIIYIK S HLG RLSALCG . . CGVG . AAI . GA . SSAMTYLMG . GK .
UniRef100_A0A0D2HQ4 EI . . L|KAIG . FSHLITAYVK T HTG RLSAVCG . . CS|IA . AGAGA . AAGVAYLLG . GD .
UniRef100_A0A0D8IFV9 RL . . A|KALA . MSHIINSYIK S YIG RLSALCG . . CGVA . AGTGA . GVAIAWMLG . GEI .
UniRef100_A0A0E2E9E9 KL . . I|RCLI . VSNLLAIHIK T GIG RLSAYCG . . A . VT . AGAAC . AAAITYMK . G .
UniRef100_A0A0F0C990 KL . . Y|RALV . LSNLLGIHIK T PI RLSAYCG . . A . IN . AGAAA . GCGIAYLK . G .

UniRef100_A0A0F2JPH4 K L I R A V T L S N L I A I Y I K L . . . K I G . . . R L S A L C G . . A . T A . S G T G A . S C G I T Y L L G . G G K .
UniRef100_A0A0F5PPY6 K I I R A I T L S H L L T A Y V K A . . . Y I G . . . V L S P I C G . . C G V A . A G V G M . S A G L T Y L L G . G S . .
UniRef100_A0A0G0R539 R I L K S I A L A H I I N A Y C K A . . F F G . . . D L A P A C G . . C A V S . A G L G A . T A A I Y Q I N . P T . .
UniRef100_A0A0G1DYX4 R V L R S I A L S H L L N A Y V K A . . F A G . . . E L S P I C H . . C A I A . A G V G A . A A G C V Y Q E K . . H . .
UniRef100_A0A0G4JSG9 K L A R A L M L S H L T A I Y I H S . . K L P . . . A L S A L C A . . A . T T . A S M G A . A A G I A W L I A . G R . .
UniRef100_A0A0H2QFG3 Q L A R A L M L S H L M A I Y I H S . . Q L P . . . P L S A L C A . . A . T T . A A M G A . A A G I A W L L E . A R . .
UniRef100_A0A0H3H4Y6 T L A R A L A L S H L T A I S I H S . . R Y T . . . R L S A L C A . . A . S T . A A M G A . A A G M A W L F T . R D . .
UniRef100_A0A0J1G0F0 K I L R G L A I S I L L T V H T K H . . Y L G . . . R L S V L C G . . C S I S . A A M G V . S C G I I Y M L G . G D . .
UniRef100_A0A0J1G1X4 A L Y R A L A F A N L V S I R L K S . . G I G . . . K L S A Y C G . . A . V S . A G C A A . A C G I A Y L . . D . .
UniRef100_A0A0J1H5D8 T V L R A L M M S H L M A I Y I K S . . Y Q N . . . K L S A L C G . . A . T T . A S M G A . V A G M T W L L G . G Q . .
UniRef100_A0A0J1J1I6 T T I R A L M M S H L M A I Y I K S . . Y Q N . . . K L S A L C G . . A . T T . A S M G A . V A G M T W L L G . G E . .
UniRef100_A0A0J5FUC8 Q L A R A L M L S H L M A I Y I H N . . K L P . . . T L S A L C A . . A . T T . A S M G A . A A G I A W L I E . Q R . .
UniRef100_A0A0J5W6F6 K M I R A V A L S H L I T I H I K S . . K F G . . . R L S A L C G . . V . T A . A G M G A . S A A I V Y L L D . G Q L . .
UniRef100_A0A0J8V6C6 T M I R A L M L S H L M A I Y I K S . . H Q N . . . K L S A L C G . . A . T T . A S M G A . V A G M T W L L G . G Q . .
UniRef100_A0A0J8VFK9 T L A R A L I M S H L G A V Y I K S . . H Y P . . . P L S A F C G . . N . T A . T S S A A . A M A M V Y L R G . G D . .
UniRef100_A0A0J8Y0Z6 T L A R A L I M S H L G A V Y I K S . . Y Y P . . . P L S A F C G . . N . T A . T S S A A . A M A M V Y L R G . G D . .
UniRef100_A0A0L0AS64 R L A R A L M L S H L S A I Y I H Y . . Q L P . . . K L S A L C A . . A . T T . A A M G A . A A G M A W L V D . G R . .
UniRef100_A0A0L6Z6T5 K L Y R A L V I S N L I T L H L K T . . S I G . . . R L S A F C G . . V . I C . A G C G S . G A G I A Y L Y . G . . .
UniRef100_A0A0M0T7J5 Q L A R A L M L S H L I A I Y I H N . . K L P . . . T L S A L C A . . V . T T . A S M G A . A A G I A W L I E . K H . .
UniRef100_A0A0M3F2I2 M L A R A L I L S H L V A I Y I H N . . Q L P . . . R L S A L C A . . A . T T . A A M G A . A A G M A W L M G . G N . .
UniRef100_A0A0N8IRU1 T L A R A L A L A H L A A I S I H M . . R Y T . . . R L S A L C A . . A . S T . A A M G A . A A G M S W L L T . Q D . .
UniRef100_A0A0P8WD60 R L Y R A L C I S N L I A I Y Q K T . . K I G . . . R L S A Y C G . . A . V S . A A T G A . G A G I I Y L Y . G . . .
UniRef100_A0A0P9CI45 K L A R A L I I S H L C A I Y I K S . . Y Y P . . . P L S A F C G . . N . T A . T S S A A . A M A M V Y L R G . G D . .
UniRef100_A0A0Q3VF08 K M I R A V A L S H L I T I H I K S . . K F G . . . R L S A L C G . . V . T A . A G M G A . S A A I V Y L L D . G G I . .
UniRef100_A0A0Q4B7W8 K L T R A L A L S H L V A I H I K G . . Y L G . . . R L S A L C G . . C . V V . A S S G A . S G A I A Y L M G . G G . .
UniRef100_A0A0Q9M0K2 Q L I R A V A L S H L V T I H I K S . . K F G . . . R L S A L C G . . V . T V . S G T G A . S C G I T Y L L G . G G K . .
UniRef100_A0A0Q9SDW4 K L I R A V A L S H L V T I H I K S . . K F G . . . R L S A L C G . . V . T V . S G T G A . S C G I T Y L L G . G G I . .
UniRef100_A0A0R1J2S2 E L I R A L A L S H L T A L Y I H S . . F L P . . . L L S A Y C A . . V . D S . A S M G A . G V C V Y L L K . N D . .
UniRef100_A0A0R1KC0R Q L I R A L T L S H L T A L Y V H A . . F L P . . . V L S A F C A . . T . D S . A A M G A . A T G S I Y L L T . N N . .
UniRef100_A0A0R1QCJ6 H L V R A L T L S H L T A L Y I H S . . F L P . . . V L S A F C A . . T . A S . A A M G A . A A G T V Y L R T . G N . .
UniRef100_A0A0R1QVN7 Q L T R A L T L S N L T A L Y I H A . . F L P . . . V L S A F C A . . T . D S . A A M G A . A V G I V Y L K T . N D . .
UniRef100_A0A0R1RS54 Q L I R A Q T L S H L T A I Y V H A . . F L P . . . V L S A F C A . . T . D S . A G M G A . A A G I C Y L L G . H D . .
UniRef100_A0A0R1WE98 Q L I R A L A L S H L T A I Y V H S . . F L P . . . I L S A Y C A . . T . H S . A A M G A . A T G I C Y L L G . G N . .
UniRef100_A0A0R1XN77 Q L I R A L A L S H L T A I Y V H S . . F L P . . . I L S A Y C A . . T . H A . A A M G A . A T G I A Y L L S . D D . .
UniRef100_A0A0S7YTK7 A V L K A V G L S H I L T A Y I K S . . F T G . . . R L S A V C G . . C S V A . A G A G A . T A G I T Y L M G . G N . .
UniRef100_A0A0T9SYJ6 T L A R A L A L A H L V A I S I H E . . R Y T . . . R L S A L C A . . V . S T . A A M G A . A A G M S W L L T . R D . .
UniRef100_A0A0U1P249 V M I R A V A L S H L L T I H I K S . . K F G . . . R L S A L C G . . V . T A . A G M G A . S G A I A Y L L G . G G L . .
UniRef100_A0A0U9HKX7 K I I V R A V T L S L L V T I Y V K S . . Y T G . . . T L S P V C G . . C G V A . A G V G A . G A G V T Y M L G . G N . .
UniRef100_A0A0V8QFY1 K L Y R A L A L S N L T A I H Q K T . . P I G . . . R L S A Y C G . . A . V N . A G A G A . G A G I A Y L C . G . . .
UniRef100_A0A0W1JFM7 K L Y R A L V V S N L I T L H L K T . . G I G . . . R L S A F C G . . V . I C . A G C G S . G A G I A Y L H . G . . .
UniRef100_A0A0W7U3I6 Q L T R A L V M S H L I A I Y I K T . . Y Q N . . . K L S A L C A . . A . S T . A A M G S . G A A I T W L L G . G Q . .
UniRef100_A0A0X8V7S8 A I L R A V A L S G L V T I Y S K H . . Y T G . . . R L S P L C G . . C V L G . G G S G A . A A G L V F L M G . G G A . .
UniRef100_A0A101WFD3 R L Y Q A L C I S N L I A I H Q K T . . K I G . . . R L S A Y C G . . A . V S . A A T G A . G A G I T Y L Y . G . . .
UniRef100_A0A101WKD0 K L A K A L A I S H L V T A Y I K N . . Y T G . . . R L S A V C G . . C G V A . A S T G A . S A A V A W L M G . L S Y . .
UniRef100_A0A110A741 T L L R A E F L G M L V I M Y M K Y . . H V G . . . R L S P I C G . . A . T L . A A S G G . A A G M T Y M M G . G N L . .
UniRef100_A0A124F8X5 T I I K S I G F S H L L N S Y V K A . . F T G . . . S L S S L C G . . C A I A . A G V G A . A A A I V Y Q Q Q . K D . .
UniRef100_A0A124IG43 R L A K A I A L S H L I L N Y I K Q . . Y T G . . . S L S A V C G . . C A V A . A G A G A . S A A I A W M L D . G T D . .
UniRef100_A0A132HQ55 R T I R A V A L S N L V A I H Q K T . . G I G . . . R L S A Y C G . . A . V S . A G C A S . G C G I A Y L M . G . . .
UniRef100_A0A132HZ15 Q I T R A L V L S H L T S I Y V K H . . G I G . . . R L S A L C G . . I . V N . A S I G V . A A G L V F L Q G . G G . .
UniRef100_A0A133N227 T L Y R G L L I T N L V A L H I K R . . F I G . . . R L S A F C G . . V . T S . A G V A A . G A G I C Y M E . T . . .
UniRef100_A0A133NAZ2 Q M I R G L F M S H M I T I H V K E . . N V G . . . R L S A Y C G . . A . I C . A S S G V . A A A L T Y L E . G . . .
UniRef100_A0A133PQ02 K L Y R A L I F A N L I G L Y I K E . . G I G . . . E L S A Y C G . . V . V S . A G C A S . V C G L A F M K . D . . .
UniRef100_A0A133QF24 E L V R A L T L S H L T A I Y I K Q . . N L G . . . T L S A L C G . . C . I V . A S T G S . S C G I T Y L M G . G N . .
UniRef100_A0A133SJ07 R R I R A L A L S N M V A I Y A H G . . Y L P . . . K L S A F C A . . V . V T . A A M G A . A A G M A W L L D . T K . .
UniRef100_A0A134A7V5 T L V R A V A L S D L V A V H V K Y . . F I G . . . E L S A F C G . . A . V S . A A C G A . G A G I C Y L R . G . . .
UniRef100_A0A134AE04 T L L R G L L F S N L L G L Y Q K K . . N I G . . . K L S A F C G . . V . V S . A A S A A . I C G I A F L N . G . . .
UniRef100_A0A134B344 V T T R A I M L S S L L V V Y I K Q . . L L G . . . R L S C L C G . . M . V V . S G I G S . A C A I T Y L M G . G T . .
UniRef100_A0A136WEN1 K L L R A E F L G M L I I M Y M K C . . H V G . . . R L S P I C G . . A . T L . A A A G G . A A G M T Y M M G . G K L . .
UniRef100_A0A136W147 Q L L R A L A M S F L M T I C V K N . . R I G . . . R V S S M C A . . C V T A . A S Q I I . A A G A T M L L G . G D L . .
UniRef100_A0A136W1A1 R I L R A I A L S C L I T I Y S K H . . Y T G . . . R L S A L C G . . C V L G . G G S G A . A A G L V Y L M G . G G A . .
UniRef100_A0A137SV0P T L Y R A L I F G N L I G L Y L K Q . . G I G . . . K L S A Y C G . . V . V S . A A S A S . I C G I A Y M E . G . . .
UniRef100_A0A140L3J8 K L A K A L A M S H M V N G Y I K H . . H I G . . . R L S A L C G . . C G V A . S S T G A . A V G I A W L M G . A N Q . .
UniRef100_A0A143WXQ4 Q L Y R A L V L S N L V A I H Q K T . . G I G . . . R L S A F C G . . A . V V . A G A A A . G A G I A Y L D . G . . .
UniRef100_A0A143XS55 Q T I R A L T L S H L T V I Y I K Q . . S L G . . . R L S A L C G . . C . V C . A A T G S . S C G I Y L M G . G G . .
UniRef100_A0A150FRN2 K L A K A L A I S H L I T T Y I K N . . Y T G . . . R L S A V C G . . C G V A . A S T G A . A A A I A Y L M G . C D Y . .
UniRef100_A0A151B5Y3 K L L R A L A I G H L T A I H I K T . . Y L G . . . R L S A L C G . . A . T V . A A T G A . S V G I T Y L L G . G N . .
UniRef100_A0A154BWC5 T L V R A L A I S A I T T L Y I K S . . F T G . . . S L S A L C G . . C A V A . A A T G A . S A A I T W M L G . G D . .
UniRef100_A0A160IJG9 K M L R A V T L S H L L S I H M K S . . K F G . . . R L S A L C G . . V . T V . A G A S A . S A A I T Y L M D . D N L . .
UniRef100_A0A162SKD8 K L Y R A L V V S N L I T L H L K T . . G I G . . . R L S A F C G . . V . I C . A G C G S . G S G I A Y L H . G . . .
UniRef100_A0A163SFG2 K M L R A V T L S H L L S Y M K S . . K F G . . . R L S A L C G . . V . T V . A G A S A . S A A I T Y L L S . D N L . .
UniRef100_A0A165STA7 Q L T R A L V M S H L V A I Y I K T . . Y Q N . . . K L S A L C A . . A . S T . A A M G A . G A A I T W L L G . G Q . .
UniRef100_A0A173SRV1 K T Y R A L V L S N L V A I H Q K E . . G I G . . . R L S A Y C G . . A . V S . A A G A A . G A G I A Y L C . G . . .
UniRef100_A0A173VH50 T L W R A T A L S Y L I T M Y I K E . . Y S G . . . R L S A F C G . . C G I A . A G T M G . A C G L A Y L Q G . A D G . .
UniRef100_A0A173XRW8 E M Y R A L I L A S L V T I H Q K T . . F I G . . . R L S A Y C G . . A . V S . A A C G S . G A A I T Y M K . G . . .
UniRef100_A0A173YG33 K L Y R A L V V S N L I A V H Q K K . . Y I G . . . S L S A Y C G . . A . V S . A G C G A . G A A I T Y L S . G . . .
UniRef100_A0A174D2T3 E I Y R A L C V S N L V A I N Q K K . . Y I G . . . S L S A Y C G . . A . V C . A A A G A . G A G I T Y L C . G . . .
UniRef100_A0A174L3Z4 K M Y R A L A L S N L V A I H Q K T . . G I G . . . R L S A Y C G . . A . V S . A G A A A . G A G I A Y L C . G . . .
UniRef100_A0A174MR10 K M I C A A A L S Q L I T V Y T K Q . . Y T G . . . R L S P I C G . . C G L A . A A I G A . A A G I T W M N H . G T . .
UniRef100_A0A174RFL9 K L Y R A L V V S N L I S I H Q K K . . Y I G . . . S L S A Y C G . . A . V S . A A C G S . G A A I T Y L Y . G . . .
UniRef100_A0A174SL13 D L A R A L V I S N L M T I H L K E . . Y M G . . . R L S P L C G . . A G I A . G A T G A . C C G I T Y L L G . G N . .
UniRef100_A0A176U761 E L L R A L L V S N L I A I H I K T . . G I G . . . P L S A F C G . . A . V S . A G C A A . G C A I A F L L . G . . .
UniRef100_A0A178K336 T L I R A L M L S H L M A I Y I K S . . H Q N . . . K L S A L C G . . A . T T . A S M G A . V A G M T W L L G . G E . .
UniRef100_A0A191HT73 Q L I R G V L L S H L I T I Y I K S . . K F G . . . V L S A L C G . . A . T T . A G T G A . S C G I A Y L L D . G N L . .
UniRef100_A0A194AJ91 T L F R A L V V S N L I T I H Q K T . . G I G . . . R L S A Y C G . . A . I S . A G V G A . G A G I A W L H . G . . .
UniRef100_A0A198F1W8 K L A R A L I L S H L L A I Y I H H . . K F P . . . A L S A L C A . . A . T T . A S M G A . A G A I A W L M E . E R . .
UniRef100_A0A1A7NS13 Q R T R A L F L S H L M A I F I H S . . K L P . . . K L S A L C A . . V . T T . A A M G S . C A G I S Y L I T . N R . .
UniRef100_A0A1A7P382 Q R T R A L F L S H L M A I F I H S . . K L P . . . K L S A L C A . . V . T T . A A M G S . C A G I S Y L I T . N N . .
UniRef100_A0A1A9FGK8 T L A R A L M L S H L S A I Y I H H . . Q L P . . . R L S A L C A . . A . T T . A A M G A . A A G M A W L L D . G R . .
UniRef100_A0A1A9SF16 K R L R A L F L S H L M A I Y I H S . . K L P . . . K L S A L C A . . V . T T . A S M G S . C A G I A Y L L T . G K . .
UniRef100_A0A1B1FZ18 K L Y R A L F M S H L T T V H V K T . . N V G . . . R L S A Y C G . . A . M T . A S A A V . S G T L V Y L E . G . . .
UniRef100_A0A1B1Z1U9 K M L R A V T V S H L L S I Y M K S . . K F G . . . R L S A L C G . . V . T V . A G A S A . S A A I T Y L L S . D D L . .
UniRef100_A0A1B2I113 E I A K A V A V S H I A T S F V K H . . N L G . . . R L S P V C G . . C S V A . A G A G A . A A G M T Y L M G . G S . .
UniRef100_A0A1B3FFN2 Q L A R A L M L S H L S A I Y I H Y . . R L P . . . R L S A L C A . . A . T T . A S M G A . A A G M A W L A D . G R . .
UniRef100_A0A1B3WQ23 E L Y R A L I L A N L L G L H Q K A . . G L G . . . R L S A Y C G . . A . V S . A A C A S . G A G I A Y L M . G . . .
UniRef100_A0A1B6BB21 H L A K A I A M S H I V N S Y I K N . . A I G . . . R L S A L C G . . C G V A . A G T G A . S V G L A W L M G . A T Q . .
UniRef100_A0A1B7HH18 K L A R A L I L S H L T A I Y I H H . . Q L P . . . A L S A L C A . . A . T T . A A M G A . A A G I T W L I D . G S . .
UniRef100_A0A1B7XD54 E M A R A L I M S H L T S I H L K H . . H L G . . . R L S A L C G . . A . I L . A A T G S . G C G I I M L L G . G K . .
UniRef100_A0A1B7XG66 E M C R A L I M S H L T S I H L K H . . H L G . . . R L S A L C G . . A . I L . A A T G S . G C G I V M L L G . G T . .
UniRef100_A0A1B9JTJ9 Q L A R A L I L S H T I A I Y I H S . . K Y P . . . P L S A L C A . . A . S T . A A M G A . A A G M A W L L G K G E . .
UniRef100_A0A1B9K484 Q L A R A L I L S H A I A I Y I H S . . K F P . . . P L S A L C A . . A . S T . A A M G S . A A G M A W L L S Q G Q . .
UniRef100_A0A1B9KFW9 Q L A R A L V L S H T L A I Y I H S . . K F P . . . P L S A L C A . . A . S T . A A M G S . A A G M A W L L N G Q Q . .
UniRef100_A0A1B9KTE7 Q L A R A L M L S H T I A I Y I H S . . K F P . . . P L S A L C A . . A . S T . A A M G A . A A G M A W L L G Q K . .
UniRef100_A0A1B9LJ45 Q L A R A L I L S H T I A I Y I H S . . K F P . . . P L S A L C A . . A . S T . A A M G S . A A G M A W L L G K G Q . .

UniRef100_A0A1C0A496QL..A.RALI..LSHTIAIYIH.....S....KF.P.....PLSALCA..A..ST..AAMGA..AAGMAWLLGKEQ..

UniRef100_A0A1C1A396QL..I.RAVA..LSHFVTIHIK.....S....KFG.....RLSALCG..V..TV..SGTGA..SCGITYLLG..GGK..

UniRef100_A0A1C4GIU9KL..ARALM..LSHLSAIYIH.....H....QLP.....RLSALCA..A..TT..AAMGA..AAGMAWLLMDE..GQ..

UniRef100_A0A1C5L1P3QM..Y.RALV..LANLTTIHQK.....T....PIG.....RLSAYCG..A..VS..AGVGA..GAGIAYLC..G...

UniRef100_A0A1C5PCW1EL..Y.RALI..VSNLVAIHQK.....H....YIG.....SLSAFCG..A..VT..AASGA..GAAITYMM..E...

UniRef100_A0A1C5W129RL..L.RATA..LSYLTIMYIK.....E....YSG.....RLSAFCG..CAIA..AGTGM..ACALAWLKG..GDL..

UniRef100_A0A1C5W9L6EL..A.KALA..TSHLVTAYVK.....N....FTG.....RLSAVCG..CGVA..ASTGA..TAAISWILMS..KDI..

UniRef100_A0A1C5ZT91KL..I.RACA..LSNLTITIK.....S....RFG.....VLSALCG..A..VV..ASTGV..ASAVVWLRG..GGL..

UniRef100_A0A1C6BRP6AL..L.RATA..LSYLTIMYIK.....E....YSG.....KLSAFCG..CGIA..AGTGM..ACGLAYLRK..ASE..

UniRef100_A0A1C6C657KM..Y.RALV..LSNLTATYQK.....V....GIG.....RLSAYCG..A..VS..AGAAA..GAGIAYLN..G...

UniRef100_A0A1C6CG70KL..V.RALV..LSNLVALNQK.....R....YIG.....SLSAYCG..A..VS..AATGA..ACGVAYLY..D...

UniRef100_A0A1C6CHU6QL..Y.RALC..ISNLTAVYQK.....Y....EIG.....RLSAYCG..A..VS..AGAGA..GAGIAYLL..G...

UniRef100_A0A1C6E2C8KL..Y.RALV..VSNLTAVHOK.....Y....YIG.....GLSAYCG..A..VC..SACGV..GAGITYMY..G...

UniRef100_A0A1C6FZ07EM..L.RALA..LSQLITIHQK.....S....HIG.....KLSALCG..CAIA..AGIGA..ACGITYLEG..GQ..

UniRef100_A0A1C6GTU2KL..Y.RALL..LANLVTIHEK.....A....GIG.....RLSAYCG..A..VS..AGAGA..GAGIAYLH..G...

UniRef100_A0A1C6HE15KM..L.RAVV..LSDLTITHQK.....S....GIG.....RLSAYCG..A..TS..AGCGA..GAGIAYLY..G...

UniRef100_A0A1C6KKO2TL..Y.RALV..LSNLAAIHQK.....F....YIG.....RLSAYCG..A..VS..AGAAA..GAGITYLL..G...

UniRef100_A0A1C7FR01AT..V.KALA..FSHLLNVYIK.....L....FTG.....KLSATCG..CGVS..AATAA..SAAMVWLLG..GD..

UniRef100_A0A1C7FR29QL..Y.RALL..VSDLVTIYQK.....A....GIG.....RLSAYCG..A..VS..AGVGA..GAGIAYLQ..G...

UniRef100_A0A1C7GSP5KL..Y.RSLL..VSDLVTIQQK.....S....GIG.....RLSAYCG..A..VS..AGVGA..GAGIAYML..D...

UniRef100_A0A1C7GTK2KL..Y.RALL..VSDLVTIHQK.....S....GIG.....RLSAYCG..A..VS..AGVGA..GAGIAYLL..D...

UniRef100_A0A1C7I701KI..L.RALA..LSILLTVHTK.....H....YLG.....RLSVLCG..CSIS..SAMGV..ACGIVFMLG..GT..

UniRef100_A0A1C7I949TL..Y.RSLV..FSNLLTITQK.....T....YIG.....KLSAFCG..AVS..ASCAS..GAALTVMV..G...

UniRef100_A0A1D7JX79KL..Y.RSLI..VSSLTITHQK.....T....GIG.....RLSAFCG..A..VS..AGCGA..GAGIAYLN..G...

UniRef100_A0A1D8GD74SY..A.RALA..ISHIVTGYIK.....H....YTG.....RLSALCG..CGVA..AATGA..SVAIAWMLG..ADE..

UniRef100_A0A1D9BEG4TL..A.RALM..LSHLMVAVVH.....G....KLP.....KLSALCA..V..TT..ASMGA..AAGIAWLLR..GG..

UniRef100_A0A1D9FM70KI..I.RAAA..LSNLVTSISK.....N....KLG.....RLSSLCG..V..VL..ASAGA..SCGIYLLD..GNI..

UniRef100_A0A1E3AN94KM..Y.RALV..VSNLTAIHQK.....K....YIG.....SLSAYCG..A..VS..AACGA..GAAITYLY..G...

UniRef100_A0A1E3AP59KL..Y.RALL..ISNLTATHLK.....E....GIG.....RLSAYCG..A..VS..AGTGA..GAGIAYLM..G...

UniRef100_A0A1E3AX25EL..Y.RALL..VSNLIAIHLK.....N....GIG.....PLSAFCG..A..VC..AGCAA..GCGIAWLQ..G...

UniRef100_A0A1E3JUL5KL..Y.RSLA..LSILITIHAK.....Q....YIG.....RLSVLCG..CSIA..SAIGV..GGAMVFLYG..GT..

UniRef100_A0A1E3UYE5KL..A.RALI..MSHLGAIYIK.....S....HYIP.....PLSAFCG..N..TV..TSAAA..SMAMVFLAG..GS..

UniRef100_A0A1E4LLH0ML..M.RALV..VSDLTITHQK.....T....GIG.....RLSAFCG..A..TS..AGCGA..ASGIAYL..D...

UniRef100_A0A1E5DC87DL..A.RALI..LSHLGAIYIK.....S....HYIP.....PLSAFCG..N..TV..TSAAA..SMAIYVLAG..GS..

UniRef100_A0A1E7GP88TI..L.RAIG..LSHIITAYVK.....A....HTG.....RLSAVCG..CSVA..AGAGA..TAGITYLLTG..GD..

UniRef100_A0A1E7GUS9RI..L.RSIA..LSHLINSYIK.....C....FTG.....HLSALCG..CSIA..AGVGA..AVAIIVYQMK..GK..

UniRef100_A0A1E8VY78AL..V.RAVV..LSDLTAVHVK.....Y....YIG.....ELSAFCG..A..VC..AACGA..GAGIVYLR..G...

UniRef100_A0A1F7FM76RL..S.EALA..TSHGITSILK.....H....HSG.....TSLAMCG..CVVC..SGTGL..TAGATYLLG..GD..

UniRef100_A0A1F8U1J0RL..A.KALA..TSHLVTAYIK.....N....YTG.....RLSAVCG..CGVA..ASTGS..AAGIAWLMN..LNY..

UniRef100_A0A1F9AZ30KT..A.QALA..LGHLLTSYVK.....F....FTG.....RLSALCG..CTIA..AGIGA..SAGVTVLLG..GS..

UniRef100_A0A1F9KWT1TL..F.RALI..VSNLVTIHQK.....T....GIG.....RLSAYCG..A..VS..AGIGA..GAGIARLH..G...

UniRef100_A0A1F9NH53TI..L.RAIG..LSHIITAYVK.....A....HTG.....RLSAVCG..CSVA..AGAGA..TAGITYLVG..GD..

UniRef100_A0A1F9QJ51RI..L.RSIA..LSHLVNSYIK.....V....FTG.....ELAPICG..CAVA..AGVGA..SVAVVWQRA..GA..

UniRef100_A0A1F9QNF5RV..L.KSIA..LSHLVNSYIK.....V....FTG.....ELAPICG..CAVA..AGVGA..SVAIVYQLK..GV..

UniRef100_A0A1F9RH62RI..L.KSIA..LSHLVNSYIK.....V....FTG.....ELAPICG..CAVA..AGVGA..SVAIVWQRR..GA..

UniRef100_A0A1F9S618TV..L.RSIA..LSHLNAYVK.....V....HTG.....GLAPICG..CAIA..AAVGA..AAAIIVYQRN..GP..

UniRef100_A0A1F9SG49RI..L.KSIA..LSHLVNSYIK.....V....FTG.....ELAPICG..CAVA..AGVGA..SVAIVWQRN..GA..

UniRef100_A0A1F9TAK5RI..L.KSIA..LSHLVNSYIK.....V....FTG.....ELAPICG..CAVA..AGVGA..SVAIVWQRS..GP..

UniRef100_A0A1F9WBA0RI..L.KSIG..LSHLVNSYIK.....V....FTG.....ELAPICG..CAVA..AGVGA..SVAVVWQQR..GA..

UniRef100_A0A1F9XU28KV..L.KSIA..LSHLVNSYIK.....V....FTG.....ELAPICG..CAVS..AGVGA..AVAIIVYQOK..GS..

UniRef100_A0A1G3Y0Y6AL..Y.RALV..FSNLIAIHQK.....T....SLG.....KLSAYCG..A..VS..AACGS..GAAITYLS..G...

UniRef100_A0A1G5G075KL..A.KALA..MSHIIINSYIK.....N....YIG.....RLSVLCG..CGVA..AGTGA..AVAITWLMG..GKT..

UniRef100_A0A1G5RWL5DQ..I.KALA..LSHLLNSYIK.....A....EIG.....RLSALCG..CGIA..AGTGA..SAAIWALET..RDP..

UniRef100_A0A1G7TJU5EL..I.RALT..LSHLTATYIK.....Q....SLG.....TLSALCG..C..VV..ASIGS..SVGITYLMG..GD..

UniRef100_A0A1G7ZR90TL..T.RALT..LSHLMVAYIH.....D....HLP.....KLSALCA..V..TT..AAMGA..AAGMAWLLG..GD..

UniRef100_A0A1G9HCH6KM..V.RAAF..FGNIVNCYIK.....A....FAG.....KLSGICG..CAIG..AGIGA..TVGITWMLG..GTD..

UniRef100_A0A1G9IX78KL..A.RALA..FSLHVTAYIK.....E....YTG.....KLSPVCG..CGVA..AGTGA..SVAIAWIMG..ATD..

UniRef100_A0A1G9V926LL..Y.RSLV..LFTNLMAIYQK.....F....FIG.....NLSAYCG..A..VS..AGAAA..GCGIAYLY..G...

UniRef100_A0A1G9WAQ0KL..I.RALA..FSHMTAIYIH.....G....FLP.....KLSALCG..G..LT..SSMG..AAGMALMT..GD..

UniRef100_A0A1G9YI22RL..A.RALA..LSNLVTIHIK.....H....YIG.....RLSPLCG..SGIA..GGVGA..NSGIYLMG..GS..

UniRef100_A0A1G9ZQB5KI..V.KSIA..LSHLINSYIK.....C....YTG.....NLSLCLG..CAIA..AGVGA..AVAIIVYQQA..GK..

UniRef100_A0A1H0QX52TL..L.RAIG..LSHIITAYVK.....A....HTG.....RLSAVCG..CSMA..AGAGA..TAGITYLVG..GD..

UniRef100_A0A1H0YFU9QL..A.RALC..TSHIGAGYIK.....S....HYIP.....LLSAYCG..NSAT..CAAGA..SA..LVYLMG..GS..

UniRef100_A0A1H2XK87RL..I.RAIF..LALMLNKYVK.....L....YTG.....KLSAMCG..CAIG..AGVGA..SGAIAWMLG..GNQ..

UniRef100_A0A1H3EXX2QL..I.RAVA..LSHLVTIYIK.....S....KFG.....RLSALCG..V..TV..SGTGA..SCGITYLLG..GGK..

UniRef100_A0A1H3LER9KL..I.RALV..ISNLTVAIHQK.....H....HLG.....KLSALCG..C..VT..AAGGA..SSGITYILG..GD..

UniRef100_A0A1H3WAT6KI..V.ESIA..LSHLVNSYIK.....C....YTG.....LSLPTICG..CSIA..AGVGA..AVAIIVYQQA..GR..

UniRef100_A0A1H3Y3B2KR..M.RALI..VSNLVSIIYIK.....H....YIG.....ALSAPCG..A..VS..ASCGA..GAAITYMS..G...

UniRef100_A0A1H4BKZ7EL..I.RALM..LSHLTAIYIK.....Q....SLG.....KLSALCG..C..VV..ASIGS..SCGITYLMG..GD..

UniRef100_A0A1H8B655KL..Y.RALV..TANLVSITHQK.....K....YIG.....SLSAYCG..A..TS..AGCGA..GCGITYLY..G...

UniRef100_A0A1H8CME3RL..Y.RALC..VSNLIAIHQK.....T....KIG.....RLSAYCG..A..VS..AATGA..GAGITYLY..G...

UniRef100_A0A1H8GDB8KL..C.RALA..TSHLTTAYIK.....N....FTG.....RLSAMCG..CGVA..AATGS..TAGIAWLMG..ESI..

UniRef100_A0A1H9PFF8DL..V.RAVV..LSDLTAVHVK.....Y....FIG.....ELSAFCG..A..VS..AGCGA..GAGICMLR..G...

UniRef100_A0A1I0AD93QR..A.RALI..LSHLIAVYIH.....S....KLP.....KLSAMCA..V..ST..AAMGS..AAGMAWLLGKE..GE..

UniRef100_A0A1I0AYQ7KL..A.RALA..TSHMNGYIK.....H....YIG.....RLSVLCG..CAVS..AATGG..AVAITWLMG..GDY..

UniRef100_A0A1I0DCR3KM..L.RSLL..VSNLVSIIYIK.....H....YIG.....ALSAPCG..A..VS..AACGA..GAAVTYMS..G...

UniRef100_A0A1I0EJZ8GL..Y.RALV..LANLIAIHQK.....T....GIG.....RLSAYCG..A..VS..AGCAA..GCGIAYLY..G...

UniRef100_A0A1I0VIM5EL..A.RALA..ISNLTVAIHLK.....S....FIG.....RLSPLCG..AGIA..AATGS..SAAIAYLLG..GS..

UniRef100_A0A1I0WME0KL..A.RALI..LANLVAIHIK.....A....YLG.....RLSALCG..C..VV..ASSGA..SCGIAYLLG..GS..

UniRef100_A0A1I1YW91KL..Y.RGLA..VSNLVSIIYIK.....K....KIG.....SLSAPCG..A..SS..AAAGS..GAIVAYLK..G...

UniRef100_A0A1I1Z2V2RL..C.RALA..LSHLTTAYIK.....N....FTG.....RLSAMCG..CGVA..AATGA..TAGIAWLM..ENI..

UniRef100_A0A1I2NY07TM..Y.RALV..VANLTSIHLK.....T....GIG.....SLSAYCG..A..TS..AGCGA..AAGITYLY..G...

UniRef100_A0A1I2QGI1KL..Y.RALV..LSNLVTIYQK.....T....GIG.....RLSAYCG..A..VS..AGCGA..GAGIAYLQ..G...

UniRef100_A0A1I3H524QL..Y.RALL..LANLVTIHEK.....E....GIG.....RLSAYCG..A..VS..AGAGA..GAGIACWL..G...

UniRef100_A0A1I3JF93KL..L.RALV..AANLTSIHQK.....R....YIG.....SLSAYCG..V..VS..AACGA..ACGICLL..D...

UniRef100_A0A1I4GYP0KI..F.KATM..LAHLIGHYAK.....I....YLG.....RLSALCG..LFYA..AAPGV..LGALLYL..A..DKT..

UniRef100_A0A1I5C3D3LL..Y.RALA..TANLTSIHQK.....R....YIG.....SLSAYCG..A..TS..AGCGA..GCGIAYLN..G...

UniRef100_A0A1I5GNJ7KI..Y.RALC..ISNLTATYQK.....S....GIG.....RLSAYCG..A..VS..AAAGA..GAGITYLY..G...

UniRef100_A0A1I5LCC9EL..F.RALA..VADLVTTRQK.....N....VIG.....RLSAFCG..A..VS..AGCGA..AAGIAYLY..G...

UniRef100_A0A1I5UNY4TL..L.RALA..CGYLVTSICK.....S....RIG.....RHSAMCA..CSVG..ASLGV..AGTAVLFG..GSS..

UniRef100_A0A1I5UQ63KT..F.RAVT..LSHLVAIYIH.....C....HFG.....LLSALCG..A..TV..AGAGA..ACGLVYLMG..GTL..

UniRef100_A0A1I5YMS6KL..Y.RALT..LSNLTTHIHK.....S....YIG.....RLSAYCG..A..VS..AAAGA..GAGIAFLH..D...

UniRef100_A0A1I6BVG1KM..I.RAVA..LSHLITIHIK.....S....KFG.....RLSALCG..V..TA..AGMGA..SGAIVYLLD..GHL..

UniRef100_A0A1I6J453NL..Y.RSLL..VSNLVTIHLK.....Y....GIG.....RLSAYCG..A..VS..AGAGA..GAGIAYLL..T...

UniRef100_A0A1I6ZCV6QL..Y.RALL..LSNLVTIHEK.....E....GIG.....RLSAYCG..A..VS..AGAGA..GAGIAWL..G...

UniRef100_A0A1I7FYH0DL..L.RAAL..LSFLICTYIK.....E....YSG.....RLSAFCG..CGIA..AGTGM..ACGLARLRG..GSS..

UniRef100_A0A1I7G945KL..L.RALI..TANLTAIRLK.....A....GIG.....CLSAYCG..A..TT..AGTGA..AAGITYLY..G...

UniRef100_A0A1J0GCP0KL..Y.RALV..ISNLTVTIHK.....T....GIG.....RLSAYCG..A..VC..AGAGS..GAGITYLY..G...

UniRef100_A0A1J0LMS4EL..Y.RALF..MSHLATVHIK.....T....NVG.....RLSAYCG..V..IC..ASAAV..SGGIAFIQ..G...

UniRef100_A0A1J4SKW3DV..L.RAIG..LSHIVTAVVK.....A....HTG.....RLSAVCG..CSVA..AGAGA..SAGIAALMG..GD..

UniRef100_A0A1J4SP72RI..L.KSIA..LSHLVNSYIK.....V....FTG.....ELAPICG..CAIA..AGVGA..SVAIVWQRA..GA..

UniRef100_A0A1J5H4T2RI..L.RSIA..LSHLINAYVK.....A....FAG.....ELSPICQ..CAIA..AGVGA..AAACVYQKK..K...

UniRef100_A0A1J5NN52SV..T.RALA..TAFHTNMXYLK.....A....YTG.....KLSPLCG..A..VT..GGA..AAATCWLE..GSC..

| | | | | | | | | | | | | | | | | | | | |
|----------------------|---------|-----|------|-------|-----------|--------|------|---|-------|----------|------|----|---------|--------|----|--------|------|------|-----|
| UniRef100_A0A1K1MT69 |AL | ..A | RALI | ..MS | HLTSIHVK |H | ..HL | G | ..... | RLSAHCG | ..A | MV | ..AGTAS | ..GC | GI | AML | ILG | ..GG | .. |
| UniRef100_A0A1M4PSI3 |RL | ..I | RAIF | ..LA | HIINKEYVK |L | ..HT | G | ..... | KLSAMCG | ..CA | IG | ..AGVGA | ..SG | AI | SWMLG | ..GS | ..SQ | .. |
| UniRef100_A0A1M4STG0 |QL | ..Y | RALL | ..IS | NLVTLHEK |E | ..GI | G | ..... | RLSAYCG | ..A | VS | ..AGAGA | ..GA | GI | AYLLV | ..T | .. | .. |
| UniRef100_A0A1M4TN05 |KL | ..L | RAVA | ..LS | HLVTYYIK |E | ..YT | G | ..... | KLSPTICG | ..CS | IA | ..AGVGA | ..GAS | I | VWGLG | ..G | ..DD | .. |
| UniRef100_A0A1M4UG08 |KL | ..L | RAVF | ..FA | HVNNTYIK |I | ..YT | G | ..... | KLSAMCG | ..CA | IA | ..AGVGA | ..AV | GI | WMMG | ..G | ..ND | .. |
| UniRef100_A0A1M4Z8B4 |EL | ..I | RAVA | ..VS | DLITIHQR |S | ..RI | G | ..... | KLSAYCG | ..A | VN | ..AGCAS | ..GT | GI | AYLQ | ..G | .. | .. |
| UniRef100_A0A1M5GZC8 |EL | ..I | RALM | ..LS | HLTAIYIK |Q | ..SL | G | ..... | RLSALCG | ..C | VV | ..AATGS | ..SC | GI | TYLMG | ..G | .. | .. |
| UniRef100_A0A1M5KAR9 |KL | ..A | KALA | ..IS | HLITAYIK |N | ..YT | G | ..... | RLSAVCG | ..CG | VA | ..ASTGA | ..SAA | I | TWLMG | ..G | ..SY | .. |
| UniRef100_A0A1M5PK79 |RL | ..A | KALA | ..IS | HVTAIYIK |N | ..YT | G | ..... | RLSAVCG | ..CG | VA | ..ASTGS | ..AAA | I | TWLMG | ..G | ..NY | .. |
| UniRef100_A0A1M5Q7B8 |KL | ..A | KSLA | ..IS | HLVTAYVK |N | ..FT | G | ..... | RLSAVCG | ..CG | VA | ..ASTGA | ..TAG | I | AWLMN | ..G | ..EI | .. |
| UniRef100_A0A1M5T798 |EL | ..Y | RALV | ..FA | NLIGLYLK |Q | ..RI | G | ..... | KLSAYCG | ..V | VS | ..AASAA | ..VV | GI | AYLE | ..G | .. | .. |
| UniRef100_A0A1M5VGJ1 |QL | ..I | RAVT | ..LS | NLIAIYIK |L | ..KI | G | ..... | RLSALCG | ..A | TA | ..SGTGA | ..SC | GI | AYLLG | ..G | ..GK | .. |
| UniRef100_A0A1M5VKN1 |TV | ..L | RAIG | ..LS | HIITAYVK |A | ..HT | G | ..... | RLSAVCG | ..CS | VA | ..AGAGA | ..TAG | I | TYLVG | ..G | ..N | .. |
| UniRef100_A0A1M5VQ04 |RE | ..I | RAVF | ..LA | HVINKEYVK |I | ..YT | G | ..... | KLSAMCG | ..CA | IA | ..AGIGA | ..GAG | I | TWLLG | ..G | ..DD | .. |
| UniRef100_A0A1M5WD19 |KI | ..A | KALA | ..IS | HINCYVK |Y | ..YI | G | ..... | RLSALCG | ..CA | VA | ..AATGS | ..GAA | I | AYLMG | ..G | ..AN | .. |
| UniRef100_A0A1M5XAW4 |AL | ..Y | RALV | ..VSN | LVTIYQK |A | ..GI | G | ..... | RLSAFCG | ..A | VC | ..AGCGA | ..GAG | I | AFLLH | ..G | .. | .. |
| UniRef100_A0A1M6BP7P |KL | ..M | RALL | ..IS | NLVSIHQK |S | ..LI | G | ..... | KLSAYCG | ..A | VS | ..AATGS | ..AAA | I | TYLH | ..G | .. | .. |
| UniRef100_A0A1M6DK99 |QL | ..A | RALV | ..MS | HLSAIYIK |S | ..HY | P | ..... | PLSAFCG | ..N | TV | ..TSAAA | ..AM | AV | LYLSG | ..G | ..S | .. |
| UniRef100_A0A1M6GP45 |EL | ..A | RALA | ..IS | SLITIIYIK |G | ..YM | G | ..... | RLSPICG | ..AG | IA | ..ASTGA | ..SAA | M | TYLLG | ..G | ..D | .. |
| UniRef100_A0A1M6GZ67 |KI | ..A | RALA | ..IS | HVITGYIK |N | ..YV | G | ..... | RLTPICG | ..CS | IA | ..ASTGA | ..TC | GI | VWLMG | ..G | ..TT | .. |
| UniRef100_A0A1M6H0C3 |KI | ..I | RSVT | ..LS | HLVTIFVK |A | ..YL | G | ..... | TLSPVCG | ..CG | VA | ..AGVGS | ..AAC | GL | TYMMG | ..G | ..N | .. |
| UniRef100_A0A1M6IA50 |EM | ..A | RALI | ..MS | HLTAIHLK |H | ..HL | G | ..... | RLSALCG | ..A | IL | ..AATGS | ..GC | GI | VMLLG | ..G | ..D | .. |
| UniRef100_A0A1M6I196 |TL | ..L | RALI | ..VSN | LITIHQK |T | ..GI | G | ..... | RLSAYCG | ..A | VS | ..AGCSA | ..GC | GI | AWLLH | ..G | .. | .. |
| UniRef100_A0A1M6J095 |EL | ..Y | RALV | ..LS | NLIAIHLK |T | ..GI | G | ..... | RLSAYCG | ..A | VS | ..AGAAA | ..GAA | I | AYLC | ..G | .. | .. |
| UniRef100_A0A1M6K9G6 |EM | ..A | RALI | ..LS | HLIAIHLK |H | ..HL | G | ..... | RLSALCG | ..A | IL | ..AATGS | ..GC | GI | AMLLG | ..G | .. | .. |
| UniRef100_A0A1M6LSS0 |AY | ..A | RALA | ..IS | HVITGYIK |H | ..YT | G | ..... | RLSALCG | ..CG | VA | ..AASGA | ..AVA | I | AWLMG | ..G | ..AD | ..K |
| UniRef100_A0A1M6M080 |KI | ..A | RALA | ..IS | HVITGYIK |H | ..YV | G | ..... | RLTPICG | ..CS | IA | ..ASTGA | ..TC | GI | VWLMG | ..G | ..SV | .. |
| UniRef100_A0A1M6MM06 |KL | ..A | KALA | ..IS | HGVTAYIK |N | ..YT | G | ..... | RLSAVCG | ..CG | VA | ..ASTGA | ..SAA | V | TWLMG | ..G | ..DY | .. |
| UniRef100_A0A1M6MYB4 |ML | ..Y | RGLV | ..FS | NLIAVHLK |S | ..GI | G | ..... | KLSAYCG | ..V | VS | ..AACGS | ..GAA | I | TYLH | ..Q | .. | .. |
| UniRef100_A0A1M6N718 |KL | ..A | RALV | ..I | ANLVAIHLK |S | ..YL | G | ..... | RLSALCG | ..C | VV | ..ASSGA | ..SAG | I | VYLMG | ..G | ..D | .. |
| UniRef100_A0A1M6R2P9 |KM | ..I | RALA | ..LG | QLVNAIYIK |A | ..HT | G | ..... | ALSAMCG | ..CG | VA | ..AGIGA | ..SC | GI | VFMMG | ..G | ..N | .. |
| UniRef100_A0A1M6R6E8 |KL | ..S | KALA | ..IS | HINCYVK |Y | ..YI | G | ..... | RLSPICG | ..CG | VA | ..AATGA | ..SAA | I | AWLMG | ..G | ..AD | ..Y |
| UniRef100_A0A1M6RMI9 |SM | ..L | RAIG | ..LS | HVITAFVK |S | ..FT | G | ..... | RLSAVCG | ..CS | VA | ..AGAGA | ..AAG | V | TYLMG | ..G | ..N | .. |
| UniRef100_A0A1M6SVH4 |TL | ..Y | RALI | ..LS | NLITIHQK |T | ..GI | G | ..... | RLSAFCG | ..A | VC | ..AGVAA | ..GAG | I | AYLK | ..G | .. | .. |
| UniRef100_A0A1M6UB72 |TL | ..Y | RALL | ..LS | NLVTLHEK |E | ..GI | G | ..... | RLSAYCG | ..A | VS | ..AGCSA | ..GC | GI | AFLLC | ..G | .. | .. |
| UniRef100_A0A1M6WQD0 |KV | ..I | RALL | ..LS | NLIALEYK |V | ..GI | G | ..... | RLSAYCG | ..A | VS | ..AGASA | ..AAG | I | AYLN | ..G | .. | .. |
| UniRef100_A0A1M7NFH1 |KM | ..Y | RALV | ..VSN | LISIHQK |Q | ..FI | G | ..... | SLSAYCG | ..A | VS | ..AACGA | ..GAA | I | TYLY | ..G | .. | .. |
| UniRef100_A0A1M7SGS9 |QL | ..A | RALV | ..MG | NLAAIHVK |K | ..FI | G | ..... | RLSALCG | ..T | TV | ..AAIGA | ..CC | GI | VLLMG | ..G | ..K | .. |
| UniRef100_A0A1M7Y6B3 |QV | ..L | KAlA | ..LS | HIITGYVK |A | ..HT | G | ..... | RLSAVCG | ..CS | VA | ..AGAGA | ..TAG | I | TYLVG | ..G | ..D | .. |
| UniRef100_A0A1N6J3Z7 |EM | ..A | RALI | ..LS | HLTAIHLK |H | ..HL | G | ..... | RLSALCG | ..A | IL | ..AATGS | ..GC | GI | VMLLG | ..G | ..D | .. |
| UniRef100_A0A1N6S191 |KA | ..L | KATL | ..LA | HLITYYIK |L | ..YM | G | ..... | KLSLCCG | ..LI | SA | ..AAPGI | ..TAA | L | LYLD | ..G | ..EE | .. |
| UniRef100_A0A1N6XX89 |IV | ..T | RALA | ..VSH | LMALYQK |H | ..FS | D | ..... | RISAFCG | ..V | VT | ..AATGA | ..CG | T | AYMMG | ..G | ..R | .. |
| UniRef100_A0A1Q3RG43 |KL | ..A | RAAA | ..IS | HLVNGVIK |S | ..NI | G | ..... | RLSALCG | ..CG | VA | ..AGTGA | ..SVA | L | AWLMG | ..G | ..AN | ..R |
| UniRef100_A0A1Q6FZ05 |HT | ..I | RALT | ..LS | HLTAIYIK |Q | ..SL | G | ..... | CLSALCG | ..C | VV | ..AATGS | ..SC | GI | TYLMG | ..G | ..G | .. |
| UniRef100_A0A1Q6RQ90 |LE | ..R | KCVL | ..LS | SLIAIYIK |S | ..KH | D | ..... | VLSAYCG | ..A | AI | ..AGTGV | ..AAA | L | TYMMG | ..G | ..NE | .. |
| UniRef100_A0A1Q6SN88 |RL | ..Y | RALL | ..VSN | LATIHQK |T | ..GI | G | ..... | RLSAYCG | ..A | IS | ..AGCSG | ..GAG | I | AYLM | ..G | .. | .. |
| UniRef100_A0A1Q8D7G1 |QL | ..A | RALI | ..MS | HLGAIYIK |S | ..HY | P | ..... | PLSAFCG | ..N | TV | ..TSAAA | ..SM | AV | YLAG | ..G | ..S | .. |
| UniRef100_A0A1R0YKY3 |TL | ..A | RALA | ..LS | NLITVHVK |H | ..YI | G | ..... | RLSPICG | ..SG | IA | ..GGVGA | ..NS | GI | IYLMG | ..G | ..T | .. |
| UniRef100_A0A1R1D2Q5 |TL | ..A | RAMA | ..LS | NLITIHVK |H | ..YI | G | ..... | RLSPICG | ..SG | IA | ..GGVGA | ..GS | GI | VYLMG | ..G | ..T | .. |
| UniRef100_A0A1R1GJC3 |TL | ..A | RAMA | ..LS | NLITIHVK |H | ..YI | G | ..... | RLSPICG | ..SG | IA | ..GGVGA | ..GS | GI | VYLMG | ..G | ..T | .. |
| UniRef100_A0A1R3ED69 |QL | ..A | RALI | ..MS | HLGAIYIK |S | ..YY | P | ..... | PLSAFCG | ..N | TV | ..TSAAA | ..AM | AV | YLLAK | ..G | ..S | .. |
| UniRef100_A0A1R4B6E8 |QT | ..Q | LALV | ..LT | NLMAIYIK |A | ..QQ | H | ..... | KLSALCG | ..A | TT | ..AGMGA | ..TAG | I | TYLLG | ..G | ..D | .. |
| UniRef100_A0A1R4I9H4 |QR | ..I | RALT | ..LS | HLTALYIH |A | ..SL | P | ..... | VLSAFCA | ..A | AT | ..AGMGS | ..AAG | V | AYLLD | ..G | ..R | .. |
| UniRef100_A0A1S1H5C3 |QL | ..A | RALM | ..LS | HLMAIYIH |N | ..QL | P | ..... | ALSALCA | ..A | TT | ..AAMGA | ..AAG | I | AWLLS | ..G | ..SR | .. |
| UniRef100_A0A1S1X543 |TL | ..V | RALA | ..LS | HLIAVYIH |I | ..RL | P | ..... | KLSALCA | ..V | TT | ..ASMGA | ..GAG | M | AYLLD | ..G | ..S | .. |
| UniRef100_A0A1S1YUP3 |KM | ..Y | RALF | ..MS | HLTIVHVK |T | ..NV | G | ..... | RLSAYCG | ..A | MT | ..ASAAV | ..SG | T | LVFLE | ..G | .. | .. |
| UniRef100_A0A1S2RI28 |KM | ..I | RAVA | ..LS | HLTITHIK |S | ..KF | G | ..... | RLSALCG | ..V | TA | ..AGMGA | ..SAA | I | VYLLD | ..G | ..GL | .. |
| UniRef100_A0A1S6HL04 |LL | ..A | RALI | ..MS | HLGAIYIK |S | ..YY | P | ..... | PLSAFCG | ..N | TV | ..TSAAA | ..AM | AV | YLLAG | ..G | ..N | .. |
| UniRef100_A0A1S8T8R1 |KL | ..Y | RALV | ..VSN | LVTIHQK |T | ..GI | G | ..... | RLSAYCG | ..A | IS | ..AGTGS | ..GAG | I | AYLH | ..C | .. | .. |
| UniRef100_A0A1S9BSA6 |KR | ..M | RALL | ..IS | NLVSIYIK |H | ..YI | G | ..... | ALSFCG | ..A | VS | ..ASCSA | ..GAA | I | TYMS | ..G | .. | .. |
| UniRef100_A0A1S9BSQ4 |VL | ..Y | RALI | ..VSN | LIAIHEK |T | ..GI | G | ..... | RLSAYCG | ..A | VS | ..AGCAA | ..GC | GI | AYLY | ..G | .. | .. |
| UniRef100_A0A1T0AV8 |QR | ..I | RALF | ..LA | HLMAIYIH |S | ..KL | P | ..... | KLSALCA | ..V | TT | ..AAMGS | ..CAG | V | AWLLT | ..G | ..K | .. |
| UniRef100_A0A1T4LAU6 |EL | ..Y | RALV | ..VSN | LVTIHLK |T | ..GI | G | ..... | RLSAYCG | ..V | VC | ..AAVAS | ..FAG | I | AYLN | ..H | .. | .. |
| UniRef100_A0A1T4PB84 |KL | ..A | RALA | ..FS | HLTAYIK |T | ..FI | G | ..... | KLSPTICG | ..CA | VA | ..AGIGA | ..CAA | I | TYVLLG | ..G | ..NS | .. |
| UniRef100_A0A1T4QX93 |SL | ..I | RALF | ..VSH | HLTTHIK |T | ..NV | G | ..... | RLSAYCG | ..A | TC | ..AAGVA | ..AAAL | T | FLN | ..D | .. | .. |
| UniRef100_A0A1T4URX3 |QL | ..I | RGLM | ..VSH | HLMAIYIK |S | ..HQ | N | ..... | KLSALCG | ..A | TT | ..ASMGA | ..VAG | M | TWLLG | ..G | ..N | .. |
| UniRef100_A0A1T4WZ02 |RL | ..T | RALI | ..LS | HLTSIHLK |H | ..NL | G | ..... | RLSALCG | ..A | TV | ..AGTAS | ..AC | GI | VYLLG | ..G | ..S | .. |
| UniRef100_A0A1T4XKQ0 |KL | ..S | RALA | ..LS | HLITVYIK |E | ..YT | G | ..... | RLSPVCG | ..CG | IA | ..AGVGA | ..CAS | V | AWLLI | ..G | ..DD | .. |
| UniRef100_A0A1T4XUV8 |TL | ..C | RALA | ..LS | NLIAIHEK |A | ..GI | G | ..... | RLSAYCG | ..A | VS | ..AGCAA | ..GC | GI | AYLLG | ..G | .. | .. |
| UniRef100_A0A1T5DJJ1 |KL | ..T | RALV | ..LAS | LISYIYIK |S | ..NM | K | ..... | RLSALCG | ..A | MT | ..AGASA | ..SC | GM | TYLLG | ..G | ..N | .. |
| UniRef100_A0A1T5E6Y2 |TM | ..L | RALL | ..VSN | LISVHIK |Y | ..GI | G | ..... | ALSFCG | ..A | VS | ..AGCAA | ..GC | GI | AFLY | ..G | .. | .. |
| UniRef100_A0A1T5JEM8 |EL | ..T | RALV | ..LS | HLTAIYIK |Q | ..SL | G | ..... | RLSCLCG | ..C | VV | ..ASTGS | ..SC | GI | TYLMG | ..G | ..G | .. |
| UniRef100_A0A1T5M617 |KI | ..T | RALA | ..LG | QLINVIYIK |N | ..HT | G | ..... | ALSAMCG | ..CG | IA | ..AGIGA | ..SC | GI | VMMG | ..G | ..S | .. |
| UniRef100_A0A1T5MAJ7 |KM | ..Y | RALV | ..LA | NLISIHQK |T | ..GI | G | ..... | RLSAYCG | ..A | VS | ..AACGS | ..GT | GI | TYLE | ..D | .. | .. |
| UniRef100_A0A1U7JGC7 |RL | ..A | RALC | ..LS | HIGAGYIK |S | ..YY | P | ..... | PLSAYCG | ..NS | AT | ..CAAGA | ..SAA | M | VYLLG | ..G | ..S | .. |
| UniRef100_A0A1U7M6Z4 |KL | ..A | RVLA | ..FS | HLTAYIK |I | ..FT | G | ..... | GLSPVCG | ..CA | VA | ..AGIGA | ..SAA | I | TWLLG | ..G | ..TI | .. |
| UniRef100_A0A1U9NH09 |EA | ..L | KAVA | ..LS | HLVTGYIK |S | ..HT | G | ..... | RLSAVCG | ..CS | IA | ..AGAGA | ..SAA | I | TYLMG | ..G | ..N | .. |
| UniRef100_A0A1V1HYA7 |KL | ..A | KALA | ..IS | HLVTAYVK |N | ..YT | G | ..... | RLSAVCG | ..CG | VA | ..ASTGA | ..TAG | I | TWLMG | ..G | ..DI | .. |
| UniRef100_A0A1V2BE83 |QL | ..T | RALA | ..LS | HLVAIYIH |S | ..KL | P | ..... | RLSALCA | ..T | TT | ..AAMGT | ..AAG | I | IWLMG | ..G | ..S | .. |
| UniRef100_A0A1V31785 | | | | | | | | | | | | | | | | | | | |

UniRef100_A0A1W1ZA37 T L . . Y R A L V . . . L T N L L S L H Q K R Y I G N L S A Y C G . . . A . V S . . . A G A A A . A C G I A Y L N . . . G . . .
UniRef100_A0A1W9T4P7 K L . . V R A L A . . . F S H L V T I Y I K E F T G S L S P I C G . . . C A I A . . A G I G A . S V A V A W L L G . . C N D . .
UniRef100_A0A1W9V6F9 Q L . . I R A L I . . . L S H L T S I H I K S S M N R L T A L C G . . . A . S V . . A A T G A . S C A I Y V L L G . . G Q . .
UniRef100_A0A1W9WF36 L L . . I K S V A . . . L S Y L V T C Y I K T L A G R I G P L C G . . . S A V A . . G G A G A . A A G V T Y L L G . . G T . .
UniRef100_A0A1W9XB23 K I . . I Q S I A . . . L S H L I N S Y I K C F T G D L S P L C G . . . C A I A . . A G V G A . A V A I V Y Q Q K . . G K . .
UniRef100_A0A1X3RMC3 E L . . I R A L A . . . L S H L V A I S V H S R Y T R L S A L C A . . A . S T . . A A M G A . A A G M A W L F T . . Q D . .
UniRef100_A0A1X7AQC7 Q L . . T R A L I . . . I S H L T A I H I K S H L N T L S A L C A . . A . T T . . A A A G A . S A A I V W L L G . . G D . .
UniRef100_A0A1X7EL00 Q L . . I R S L I . . . M S H L T A I H L K H S L G R L S A L C G . . . A . S L . . A A T A A . G C G I T L L L G . . G G . .
UniRef100_A0A1X7KM00 E I . . A E A I A . . . F S H L S T S F T K S R M G R L S P V C G . . . C A V A . . A G A G A . A A G I V H L L G . . G S . .
UniRef100_A0A1Y3QXR2 Q T . . I R A L V . . . L S H L T V I Y I K Q S L G R L S A L C G . . . C . V V . . A A T G S . S C G I T Y L M G . . G D . .
UniRef100_A0A1Y3RRP8 R M . . Y R A L A . . . V S D L C T I H Q K T Y I G R L S A F C G . . . A . V S . . A G A G A . G A G I C Y L L . . G . . .
UniRef100_A0A1Y3RX83 A T . . V K A L A . . . F S H M L N V Y I K L F T G K L S A T C G . . . C G V A . . A A A S . S A A M V W L M G . . G N . .
UniRef100_A0A1Y3SMD1 R M . . Y R A L V . . . V S N L L T V H Q K T N L G R L S A F C G . . . A . V N . . A A C A A . A A A I A Y L D . . G . . .
UniRef100_A0A1Y3SQP2 T L . . I R A L V . . . V S N L V T I H L K S G I G T L S A Y C G . . . A . I S . . A G C G A . G A G I T Y L Y . . G . . .
UniRef100_A0A1Y3TK97 T L . . C R A L A . . . L S N L V A I H E K T G I G T L S A Y C G . . . A . V S . . A G A G A . G A G I A Y L C . . G . . .
UniRef100_A0A1Y3U0C8 K L . . Y R A L A . . . V S N L I A I H E K S G I G R L S A Y C G . . . A . V S . . A G C A A . G C G I A Y L C . . G . . .
UniRef100_A0A1Y3VGJ2 Q T . . I R A L T . . . L S H L T V V Y I K Q S L G R L S A L C G . . . C . V V . . A A T G S . S C G I T Y L M G . . G D . .
UniRef100_A0A1Y3WJ31 R L . . Y R A L A . . . V S N L I A I H E K S G I G R L S A Y C G . . . A . V S . . A G C A A . G C G I A Y L Q . . G . . .
UniRef100_A0A1Y3WTJ9 K L . . L R A A A . . . L S Y L V C M Y I K E Y S G K L S A F C G . . . C A I A . . A G T G M . A C G L V L L R D . . G D A . .
UniRef100_A0A1Y3XW41 R L . . L R A L A . . . L S D L V A I H V K T Y I G A L S A F C G . . . A . V C . . A A C G A . G A A I T W M S . . G . . .
UniRef100_A0A1Y3YK88 R M . . Y R A M V . . . V S N L L T V H Q K S N L G R L S A F C G . . . A . V N . . A A C A A . A A A I A Y L D . . G . . .
UniRef100_A0A1Y4AGU1 R L . . L R A L A . . . V S D L T A V H L K S Y I G S L S A F C G . . . V . V C . . A A A G A . G A A I C W M D . . G . . .
UniRef100_A0A1Y4AKU3 Q T . . I R A L V . . . L S H L T V I Y I K Q S L G R L S A L C G . . . C . V V . . A A T G S . S C G I T Y L M G . . G S . .
UniRef100_A0A1Y4B7K2 E I . . Y R A L C . . . V S N L V A I H Q K R Y I G S L S A Y C G . . . A . V C . . A A A G A . G A G I T Y L H . . G . . .
UniRef100_A0A1Y4BR86 E L . . L R A L V . . . V S N L V T I H L K T G I G R L S A Y C G . . . A . T S . . A G A G A . A A G I T Y L Y . . G . . .
UniRef100_A0A1Y4CAT4 Q T . . A V A L A . . . I S S M I T I Y I K G Y I K R M T A F C G . . . C G V A . . A A T G M . A A A V T Y L L G . . G G Y . .
UniRef100_A0A1Y4CBR2 N L . . A R A L T . . . L S H L I A I H I K G Y L G K L S A L C G . . . C . V I . . A S T G S . S C G L V L L N G . . G G . .
UniRef100_A0A1Y4DE51 T I . . L K S I A . . . L S H L L N G Y V V K V F T G E L A P I C G . . . C A I A . . A G V G A . S A A I V Y Q Q R . . G K . .
UniRef100_A0A1Y4EB47 R L . . L C A L A . . . V S D L T A V H L K S Y I G S L S A F C G . . . V . V C . . A A A G A . G A G I A W M E . . G . . .
UniRef100_A0A1Y4GD89 L T . . Y R A L A . . . L A N L L A V H Q K K Y I G R L S A Y C G . . . V . V S . . A A A A S . A C G V A Y M L . . L R G R . .
UniRef100_A0A1Y4GPW5 E I . . A K A I A . . . V S H L A T S F V K R N L G R L S P V C G . . . C S V A . . A G A G A . A A G M T Y L M G . . G N . .
UniRef100_A0A1Y4HBY4 K L . . Y R A L T . . . L S N L V A I H Q K T G I G R L S A Y C G . . . A . V C . . A G A A A . G A G I A Y L Y . . G . . .
UniRef100_A0A1Y4HFY2 R L . . H R A L L . . . L S N L L T I H M K T G I G R L S A Y C G . . . A . V S . . A G C A A . G A A I A W L C . . G . . .
UniRef100_A0A1Y4HL73 G L . . L R A L A . . . L S D L V A V H V K S Y I G A L S A F C G . . . V . V C . . A A C G A . G A A I T W M A . . G . . .
UniRef100_A0A1Y4I7G9 R L . . Y R A L L . . . L S N L L A I H Q K S G I G K L S A F C G . . . A V . C . . A T C A S . G A A I C Y L Q . . T . . .
UniRef100_A0A1Y4IMH5 R L . . Y R A L L . . . V S N L V A I H Q K T G M G R L S A Y C G . . . A . V S . . A G C G A . G C G I A Y L Q . . G . . .
UniRef100_A0A1Y4J1U9 E L . . Y R A L V . . . V S N L V T I H L K T G I G S L S A Y C G . . . A . T A . . A G C G A . G A G V C Y L H . . G . . .
UniRef100_A0A1Y4K8B3 E L . . L R A L V . . . V S N L V S I H L K T G I G K L S A Y C G . . . A . T S . . A G A G A . A A G I T Y L Y . . G . . .
UniRef100_A0A1Y4KX19 K L . . L R A T T . . . L S F L I T T Y I K E Y S G K L S A F C G . . . C G I A . . A G T G M . A C G L A Y L K G . . G M . .
UniRef100_A0A1Y4L2N8 M M . . L A R A V . . . V S N L I T I H L K T G I G R L S A Y C G . . . A . I S . . A G C G A . G A G I C Y L Y . . G . . .
UniRef100_A0A1Y4LE84 K L . . I Q A V T . . . L S D L L T I H L K T G I G R L S A Y C G . . . A . V S . . A G C A A . G S A I A C L Q . . G . . .
UniRef100_A0A1Y4LNF7 E L . . Y R A L T . . . L S N L I T L H A K E G I G R L S A Y C G . . . A . V S . . A G A G A . G A G I A W L H . . G . . .
UniRef100_A0A1Y4N2U3 T L . . Y R A L C . . . I S N L T A I H I K S R M G R L S A F C G . . . A . V S . . A A A G A . G A A I Y V L K . . G . . .
UniRef100_A0A1Y4NQE2 E L . . Y R A L V . . . L S N L V A I H E K T G I G T L S A Y C G . . . A . V S . . A G A G A . G A G I V Y L C . . G . . .
UniRef100_A0A1Y4QRC3 K L . . Y R A L V . . . L A N L I A I H Q K S G M G R L S A Y C G . . . A . V S . . A G C A A . G C G I A Y L Y . . G . . .
UniRef100_A0A1Y4RAY4 S L . . L R G I A . . . M S Y L V A I S I I H R I G K S P S M C S . . . C E V A . . A A L G I . S A G A T L M R N . . G T Y . .
UniRef100_A0A1Y4RFN6 K K . . Y R A L A . . . L S N L T A I H Q K T P I G R L S A F C G . . . A . V S . . A G A G A . G A G I A Y L N . . G . . .
UniRef100_A0A1Y4SX17 E L . . Y R A L I . . . V S N L C T I H Q K R G I G R L S A Y C G . . . A . V S . . A G I G A . G C G I A Y L L . . G . . .
UniRef100_A0A1Y4U252 E L . . L R A L C . . . V S N L T A Q D Q K T Y I G P L S A Y C G . . . A . V C . . A A A G A . G A G I T F L C . . G . . .
UniRef100_A0A1Y4VZE6 E L . . Y R A L I . . . V S N L C T I H Q K T G I G R L S A Y C G . . . A . V S . . A G I G A . G C G I A Y L L . . G . . .
UniRef100_A0A1Y4W9A0 K M . . Y R A L V . . . L S N L L A I H Q K T R I G R L S A Y C G . . . V . T T . . A G T A A . G C G I A Y L Q . . D . . .
UniRef100_A0A1Y4WC44 A T . . E K A L A . . . F S H L N V N Y I K I F T G K L S A T C G . . . C G V S . . A A A A . S A A M V W L L G . . G D . .
UniRef100_A0A1Y6L153 Q L . . I R A L M . . . L S H L M A I Y I K S Y Q N K L S A L C G . . . A . T T . . A S M G A . V A G M T W L L G . . G D . .
UniRef100_A0A209B183 I L . . A R A L A . . . L A H L A I S I T H M R Y T R L S A L C A . . A . S T . . A A M G A . A A G M S W L L T . . K N . .
UniRef100_A0A212J279 K L . . Y R A L L . . . I S N L V A I H N K S G I G R L S A Y C G . . . A . V S . . A A C G S . G A A I T W M H . . G . . .
UniRef100_A0A212J3C8 R T . . V R A L A . . . I A S L V T V A I K A H T G K L T A F C G . . . C A I A . . P A T G L . A A A A Y I L M G . . G D A . .
UniRef100_A0A212JD56 S L . . I R A L I . . . L S H L T V V Y I K Q K L G R L S A L C G . . . C . V A . . A A T G A . S C G I T Y L M G . . G D . .
UniRef100_A0A212KAX4 A L . . A R A L I . . . M S H L T S I H V K H R L G R L S A L C G . . . A . T V . . A S M A S . A C G I V M L L G . . G G . .
UniRef100_A0A226BWM1 Q L . . L K A R A . . . I A I I L T N Y I K H H I G N L S A I C G . . . G A V A . . A S I G A . S A G I A Y L L K . . G S T . .
UniRef100_A0A239JB37 D A . . L R A I G . . . L S H I V T A S V K A H T G R L S A V C G . . . C S V A . . A G A G A . T A G I A A L M G . . G S . .
UniRef100_A0A239G347 K M . . Y R A L V . . . L A N L I T I H Q K T G I G R L S A Y C G . . . A . V S . . A A C G S . G T G I T Y L E . . G . . .
UniRef100_A0A239ITT9 K L . . A K A L A . . . M S H M M N S Y I K H Y I G R L S A L C G . . . C G V A . . A G T G A . G V A I V W L M G . . G K M . .
UniRef100_A0A239RJY8 E L . . I R A L T . . . L S H L T A I Y I K Q S L G T L S A L C G . . . C . V V . . A S I G S . S C G I T Y L M G . . G N . .
UniRef100_A0A239TM99 K M . . Y R A L A . . . V S N L L A I H Q K K Y I G N L S A F C G . . . A . V S . . A S Y A C . S A A I T Y M L . . G . . .
UniRef100_A0A242V4A8 Q L . . A R A L I . . . M S H L G A I Y I K S Y P P P L S A F C G . . . N . T T . . T S A A A . S M A L V Y L A G . . G T . .
UniRef100_A0A254VKQ7 Q L . . T R A L M . . . L S H L M A V Y I H A R L P K L S A L C A . . V . T T . . A S M G A . A A G M G L L L G . . G G . .
UniRef100_A0A255TJW7 E L . . I R A L T . . . L S H L T A I Y I K Q S L G K L S A L C G . . . C . V V . . A S I G S . S C G I T Y L M G . . G D . .
UniRef100_A0A256C0N1 D R . . I R A Q T . . . L S H L V A I Y I H N T F P S L S A L C A . . T . S T . . A S M G A . A A G M A W L L G D H K . .
UniRef100_A0A257UFP3 R I . . E E A L A . . . L A C I V T S G V T Y H L G S L S A M C G . . . S A I A . . G G I G V . A A A L V L L E G . . G G . .
UniRef100_A0A259UK57 E L . . T R A L M . . . L S H M M A I Y I H D K L P R L S A L C A . . V . T T . . A S M G A . A A G M A W L L K . . G N . .
UniRef100_A0A259UK99 Q L . . L R A V A . . . L S H L V T I V V K I Y T G S L S A L C G . . . C A V A . . A A T A A . T A A I T W L M G . . G N . .
UniRef100_A0A264YA23 E Q . . I R A L I . . . L S H L T A I Y I K Q N L G K L S A L C G . . . C . V V . . A S I G S . S C G I T Y L M G . . G D . .
UniRef100_A0A265Q339 K L . . L K A V F . . . F A H V V N K Y I K L Y T G K L S A M C G . . . C A I A . . A G V G A . S V G I T W M L G . . G N D . .
UniRef100_A0A265Q6G2 D L . . V K A L A . . . I S H I I T S V V K R Y I G R L S N I C G . . . C S I A . . A S I G S . G A A I A W L L G . . D K N . .
UniRef100_A0A267MKY3 K L . . A K A V A . . . I S H V I N S Y V K H Y I G R L S A L C G . . . C A V A . . A S T G A . G V A I G W L M G . . A N H . .
UniRef100_A0A291TB67 K L . . Y R A L I . . . I S N L V A I H E K T G I G T L S A Y C G . . . A . V S . . A G A G A . G A G I V Y L C . . G . . .
UniRef100_A0A2A5JYP0 K L . . V R A V T . . . F S H L L A I W I K T K F G R L S A L C G . . . V . T V . . A G A S A . A A A I T Y L F D . . G D L . .
UniRef100_A0A2A5QBH2 Q L . . A R A L M . . . L S H L M A I Y I H N Q L P A L S A L C A . . A . T T . . A A M G A . A A G I A W L L E . . S R . .
UniRef100_A0A2C5T5X0 Q L . . I R A L T . . . L S H L M A I Y I H S Q F P P L S A L C A . . A . T T . . A S M G A . A A G I A W L F E . . G K . .
UniRef100_A0A2C6DCR8 K L . . A R A L M . . . L S H L M A I Y I H T K L P K L S A L C A . . A . T T . . A S M G A . A A G M A W L L S . . D R . .
UniRef100_A0A2C6DRU7 E R . . Y R A L L . . . L S N L I A L Y E K S Y I G K L S A Y C G . . . V . V C . . A A S G S . A A G I T L L R . . K . . .
UniRef100_A0A2C9PBN0 T M . . I R A L M . . . L S H L M A V Y I K S Y Q H K L S A L C G . . . A . T T . . A S M G A . A A G M T W L L G . . G N . .
UniRef100_A0A2D3W7E5 K L . . L R A L F . . . F S H L A T V H V K T N I G R L S A Y C G . . . V . T C . . A A S A V . A G A L A F I N . . D . . .
UniRef100_A0A2G2MFD4 K I . . S K A L A . . . I S H T I N C V I K N H I G S L S A L C S . . . C G I S . . A A T G A . S A A I T W L K N . . G S K . .
UniRef100_A0A2G6B8X6 K K . . A R A V A . . . I S H L I N A Y V K S Y M G K L S P V C G . . . C A V S . . A G L G C . A A G I T Y L I G . . G T M . .
UniRef100_A0A2G6E433 D I . . L K S V A . . . L S H L L N S Y I K C Y I G D L S P V C G . . . C A I A . . A G V G A . T A A I V Y Q L A . . G K . .
UniRef100_A0A2G6HZA5 T L . . I R A L L . . . I S N L T I H Q K T S I G R L S A F C G . . . V . V S . . A G V G A . G A G I T W L N . . G . . .
UniRef100_A0A2G6K886 L L . . L R A A A . . . L S S L I T V V V K S F M G V L T P V C G . . . G S V A . . A G L G A . A C A I T Y L F G . . G D . .
UniRef100_A0A2G6M529 E I . . A E A L A . . . F S H L S T S F V K S R M G R L S P V C G . . . C A V A . . A G A G A . A A G I T H L L G . . G S . .
UniRef100_A0A2G6MWA1 K L . . A R A L I . . . M S H L T T I H L K H Y L G R L S A L C G . . . V . I L . . A A S G S . A C G I A M L L G . . G G . .
UniRef100_A0A2G6N232 T L . . L R A L V . . . V S N L T I H Q K T R I G S L S A Y C G . . . A . I S . . A G A G A . G A G I A W L H . . G . . .
UniRef100_A0A2G6P3W9 D L . . Y R A L L . . . V S N L V T I H Q K T G I G R L S A Y C G . . . A . I S . . A G V G A . G S G I A W L H . . G . . .
UniRef100_A0A2G6PSX3 T L . . Y R A L L . . . V S N L V T V H Q K T G I G K L S A Y C G . . . A . I S . . A G V G A . G A G I T W L C . . G . . .
UniRef100_A0A2G6QN57 K K . . L R A L A . . . L S N L L A I H Q K T S V G R L S A F C G . . . T . . A G . . A T T A A . V S A I T Y L K . . G . . .
UniRef100_A0A2H0ZBF8 R M . . L K S V A . . . L S H L I N S Y I K V F L G E V S P I C G . . . C A V S . . A G V G A . S A A I V Y Q R K . . G K . .
UniRef100_A0A2H9P7L0 R I . . A E A A L . . . L S H L V T K Y A S L S S G Y L S A I C G . . . C . T I K . . A G I G A . A A G V A Y L L G . . G D N . .
UniRef100_A0A2H9T779 Q L . . I R A L T . . . L S H L T A I Y I K S H L P S L S A M C A . . T . T T . . A A M G S . A V S I T W L L G . . G D . .
UniRef100_A0A2I0PJ08 K K . . I R A V T . . . L S N L V T I Y L K S H L G R L S A M C G . . . A . I I . . S S M G A . C C A I T F I L G . . G K K . .
UniRef100_A0A2I0QA36 E L . . A R A L M . . . L S H L V T I H I K G Q L G R L S A L C G . . . A . V V . . A S I G S . A C G I V Y L A E . . G N . .
UniRef100_A0A2I1MB94 T L . . A R G L F . . . F A H I I N R Y V K E Y A G K L S G L C G . . . C A I G . . A A I G S . C A A I A F M L G . . G G E . .
UniRef100_A0A2I5TF53 K L . . A R A L T . . . L S H L M A I Y I H S Q L P T L S A L C A . . A . T T . . A S M G A . A A G M S W L L E . . P R . .
UniRef100_A0A2I7N9R7 K M . . M R G L I . . . F S I L A S V H I K N N I G R L S A Y C G . . . P . M C . . A A G A V . S G A L V F L N . . D . . .
UniRef100_A0A2I8NM82 K L . . A R A L M . . . L S H L S A I Y I H Y Q L P R L S A L C A . . A . T T . . A A M G A . A A G M A W L L D . . G G . .

UniRef100_A0A2J6HXP9 K L . . . Y R A L L . . . I A N L V T I H Q K T G I G R L S A Y C G . . . A . I S . . . A G V G A . . . G A G I T W I C . . . G . . .
UniRef100_A0A2J6XEK0 E V . . . I R A V T . . . L S H L L T I Y V K S Y T G L L S P L C G . . . C G I A . . . A G V G C . . . S S G L T F L R E . . . K D . . .
UniRef100_A0A2J8B7A6 A M . . . W R A L L . . . V S N L V T L H E K E G I G R L S A Y C G . . . A . V S . . . A G A G A . . . G A G I A W L K . . . T . . .
UniRef100_A0A2K2TW32 K L . . . Y R A L V . . . V S N L I A I H Q K K Y I G S L S A Y C G . . . A . V S . . . A A C G A . . . G A A I T Y L Y . . . G . . .
UniRef100_A0A2K4ZDC0 K L . . . Y R A L V . . . L S N L L A I H Q K T G I G R L S A Y C G . . . A . V S . . . A G S A A . . . G A A I A Y L Y . . . G . . .
UniRef100_A0A2L2WL5 E L . . . I R A L T . . . L S H L T A I Y I K Q S L G T L S A L C G . . . C . V V . . . A G I G S . . . S C G I T Y L M G . . . G D . . .
UniRef100_A0A2L2WWP7 E M . . . T R A L M . . . L S H L T A I Y I K Q N L G S L S A L C G . . . C . V V . . . A A T G S . . . S C G I T Y L M G . . . G T . . .
UniRef100_A0A2M6ZWR1 R L . . . L K S I L . . . L S H I V T R I I S N Y T G D L S A L C G . . . C . F N K S A I . . . G A . . . A A G L T Y L L G . . . G K E . . .
UniRef100_A0A2M8H1P7 Q T . . . L R A L I . . . L S H L M A I Y I K K Q Q N K L S A L C G . . . A . T T . . . A A M G S . . . A A G I T Y L L G . . . G S . . .
UniRef100_A0A2M8RT13 Q L . . . T R A L F . . . L S H L M A I Y I H S K L P K L S A L C A . . . A . T T . . . A A M G S . . . C A G I A W L L G . . . G S . . .
UniRef100_A0A2M8S313 K H . . . I R A L F . . . L S H L M A V F I H S K L P K L S A L C A . . . V . T T . . . A A M G S . . . T A G V A W L L T . . . E K . . .
UniRef100_A0A2M8TGF1 K L . . . Y R A L V . . . I S S L V T I H Q K T G I G R L S A Y C G . . . A . V S . . . A G V G S . . . G A G I A Y L Y . . . G . . .
UniRef100_A0A2N1PL94 E M . . . I R A L F . . . F S H L A A I H I K T N V G R L S A H C G . . . A . V C . . . A A A L . . . G G A L A F V N . . . N . . .
UniRef100_A0A2N1QND6 Q L . . . L R A I A . . . L S Y L L T I L M K S H I G R L S A I C A . . . C A L A . . . A G I G V . . . A A G A S L L L G . . . G D V . . .
UniRef100_A0A2N1QTJ0 D I . . . A K A L A . . . I S H I S T S F V K R R L G R M S V V C G . . . C S V A . . . A G A G S . . . A A G M T Y L M G . . . G S . . .
UniRef100_A0A2N1SEJ3 R L . . . I R A V T . . . L S N L I A I Y I K S R F G K L S A L C G . . . A . T V . . . A A T G A . . . C A G I A Y L L G . . . G D L . . .
UniRef100_A0A2N1TGG1 R V . . . M K A I A . . . L S H L V T A Y I K A H T G R L S A L C G . . . C S V A . . . A G A G A . . . T A G I T Y L M G . . . G S . . .
UniRef100_A0A2N2A626 A L . . . L R A L I . . . V S D L V T I H Q K T G I G R L S A F C G . . . A . V C . . . A G C G A . . . G A G I A Y L E . . . G . . .
UniRef100_A0A2N2B390 A L . . . A R A L I . . . L S H L V A I H I K K R L G R L S A L C G . . . A . I A . . . A A I G S . . . G C G M T L L M G . . . G S . . .
UniRef100_A0A2N2CTS9 K L . . . I R A V A . . . L S D L I A I H Q K T S I G R L S A F C G . . . A . I S . . . A G C A A . . . G A G I A Y L N . . . G . . .
UniRef100_A0A2N2DQV4 T L . . . L R A V A . . . L S D L I T I H Q K S S I G R L S A F C G . . . A . V S . . . A G C S A . . . G A G I A Y L Q . . . G . . .
UniRef100_A0A2N2EHW0 D L . . . A R A L I . . . L S H L V A I H I K K R L G R L S A L C G . . . A . I A . . . A A I G S . . . G C G M T L L M G . . . G N . . .
UniRef100_A0A2N2EP56 R I . . . L K S I A . . . V S H L V N S Y I K V F T G E L A P I C G . . . C A V A . . . A G V G A . . . S V A I V W Q R A . . . G G . . .
UniRef100_A0A2N2FK02 D A . . . L R A I G . . . L S H I V T A S V K A H T G R L S A V C G . . . C S V A . . . A G A G A . . . T A G V A A L L G . . . G D . . .
UniRef100_A0A2N2GVW3 K V . . . L Q S I A . . . L S H L V N S V V K C Y T G S L S P L C G . . . C A I A . . . S G V G A . . . A V A I V F Q Q V . . . G A . . .
UniRef100_A0A2N2HC93 K I . . . V R S I A . . . L S H L I N S Y I K C H T G H L S P I C G . . . C A I A . . . A G V G A . . . A A A I V Y Q V A . . . G K . . .
UniRef100_A0A2N2IF24 D V . . . L E A M A . . . L S H L V T A Y V K A H T G R L S A I C G . . . C S V A . . . A G A G A . . . S A G V A Y L L G . . . G N . . .
UniRef100_A0A2N2LGF6 K L . . . F R A L A . . . L G H L V S V H I K N K I G V L S C L C G . . . C . L S . . . A A A G A . . . A C G I V Y L L D . . . G D . . .
UniRef100_A0A2N2VX69 E L . . . A R A L V . . . L A H L V A I H I K G Y L G K L S A L C G . . . C . V I . . . A T A G A . . . S C G I V Y L K G . . . G N . . .
UniRef100_A0A2N3I0V5 K L . . . L R A L A . . . L A L L V T I Y M K S F V G Q L S A L C G . . . V . L L . . . S T A G A . . . S C G I T Y I M G . . . G D . . .
UniRef100_A0A2N4UW80 N L . . . A R A L I . . . I S H L T A I Y I K S F Y P P L S G F C G . . . N . T V . . . T S G A A . . . S M A M V Y L A G . . . G T . . .
UniRef100_A0A2N5XTJ3 Q L . . . A R A L I . . . L S H L G A I Y I K S Y Y P S L S A F C G . . . N . T A . . . T S A A A . . . A M A I V Y L M G . . . G S . . .
UniRef100_A0A2N6BTV4 R V . . . V E A I A . . . L S H L V T A Y I K A F T G R L S A I C G . . . C S V A . . . A A A G A . . . A A G A T Y L L G . . . G N . . .
UniRef100_A0A2N6D3G7 T V . . . L E A I A . . . L S H L V T A Y I K A H T G R L S A I C G . . . C S V A . . . A G A G A . . . A A G I T Y M L G . . . G T . . .
UniRef100_A0A2N6D977 T V . . . L E A I A . . . L S H L V T A Y I K A H T G R L S A I C G . . . C S V A . . . A G A G A . . . A A G I T Y M L G . . . G T . . .
UniRef100_A0A2N6EIM4 T L . . . L R A L L . . . V S N L V A I H Q K T G I G R L S A Y C G . . . A . V S . . . A G C A A . . . G A G I S W L H . . . G . . .
UniRef100_A0A2N8ZD10 H L . . . I R A L M . . . L S H L M A I Y I K S H Q N K L S A L C G . . . V . T T . . . A S M G A . . . V S G M T W L L G . . . G T . . .
UniRef100_A0A2N8ZKM0 K L . . . A R A L I . . . L S H L G A V Y I K S H Y P P L C A F C G . . . N . T A . . . T S S A A . . . S M A M V Y L K G . . . G S . . .
UniRef100_A0A2P1TWB1 M L . . . A R S I A . . . L S Y I I N I Y I K E Y S G K L S A F C G . . . C A V A . . . A G T G A . . . S A G I C Y L L G . . . G G L . . .
UniRef100_A0A2P2BMT9 R L . . . A K A L A . . . I S H L V T A Y I K N Y T G R L S A V C G . . . C G V A . . . A S T G A . . . T A G L S W L M S . . . G D E . . .
UniRef100_A0A2P2FC67 L I . . . L R A L V . . . L A N L I S V H Q K K Y I G S L S A Y C G . . . A . T S . . . A A T G A . . . A C G V A Y M M . . . L R Q K . . .
UniRef100_A0A2P2FDS6 K L . . . Y R A L V . . . L S N L I A I H Q K T G I G R L S A Y C G . . . A . V S . . . A A G A A . . . A C G I A Y L L . . . G . . .
UniRef100_A0A2P2FE08 Q L . . . I R A T T . . . V S D L L T I Y Q K S F I G R L S A F C G . . . A . V S . . . A G A A A . . . A A G V C F L N . . . G . . .
UniRef100_A0A2P5GLH4 K L . . . A R A L M . . . L S H L S A I Y I H N Q L P K L S A L C A . . . A . T T . . . A S M C A . . . A A G M A W L A D . . . G R . . .
UniRef100_A0A2P7Q289 R L . . . C K A L A . . . L S H I T T A Y I K H F T G R L S A M C G . . . C G V A . . . A A T G A . . . T A G I A W L M D . . . E D I . . .
UniRef100_A0A2P8EH31 K L . . . Y R A L L . . . V S N L V S Y I K E F I G S L S A F C G . . . A . V S . . . A A C G A . . . G A A I T Y M A . . . G . . .
UniRef100_A0A2S0L2V7 K L . . . I R A T A . . . L S Y L V C T Y I K H Y S G K L S A F C G . . . C A I A . . . A G S G M . . . A S A L V Y L D G . . . G D T . . .
UniRef100_A0A2S2CIK9 Q Q . . . I R A L M . . . L S H L M A I Y I K S H Q N K L S A L C G . . . A . T T . . . A A M G A . . . V A G M T W L L G . . . G N . . .
UniRef100_A0A2S4QN42 R L . . . A R A L M . . . L S H L S A I Y I H S Q L P R L S A L C A . . . A . T T . . . A A M G A . . . A A G M T W L M D . . . G R . . .
UniRef100_A0A2S4WWF9 K L . . . A R A L M . . . L S H L S A I Y I H Y Q L P R L S A L C A . . . A . T T . . . A A M C A . . . A A G M A W L L D . . . G R . . .
UniRef100_A0A2S6HY69 E L . . . Y R A L V . . . L S N L I A I Y Q K Y R M G R L S A Y C G . . . A . V S . . . A A A G A . . . G A G I T Y I M . . . G . . .
UniRef100_A0A2T0BJ09 K L . . . Y R A L V . . . I S D L V T I H Q K T G I G R L S A Y C G . . . V . I C . . . A G A G S . . . G A G I A Y L Y . . . G . . .
UniRef100_A0A2T0BN10 K I . . . V R S V A . . . L S H L V T I Y I K S Y T G A L S P V C G . . . C G V A . . . A G V G A . . . S A G L S Y L T G . . . G N . . .
UniRef100_A0A2T2XZM9 T L . . . A R A L A . . . L S H L T A I S I H S R Y T R L S A L C A . . . A . S T . . . A A M G S . . . A A G M A W L F T . . . R D . . .
UniRef100_A0A2T3I2B3 T A . . . V R A L M . . . M S H L M A I Y I K S Y Q N K L S A L C G . . . A . T T . . . A S M G A . . . V A G M T W L L G . . . G Q . . .
UniRef100_A0A2T3JYD2 Q I . . . A R A L I . . . M S H L G A I Y M K S F Y P P L S P F C G . . . C . A V . . . T S S A A . . . S M A M T Y L Q G . . . G . . .
UniRef100_A0A2T3LD16 K T . . . I R A L M . . . L S H L T A I Y I K S H Q N K L S A L C G . . . A . T T . . . A S M G A . . . V A G M T W L L G . . . G D . . .
UniRef100_A0A2T3LKN5 Q L . . . A R A L I . . . M S H L G A I Y M K S F Y P P L S P F C G . . . N . A V . . . T S S A A . . . A M G M V Y L A G . . . G D . . .
UniRef100_A0A2T3N3A2 K T . . . I R A L M . . . L S H L M A I Y I K S H Q N K L S A L C G . . . A . T T . . . A S M G A . . . V A G M T W L L G . . . G D . . .
UniRef100_A0A2T3NL8R T T . . . I R A L M . . . M S H L M A I Y I K S Y Q N K L S A L C G . . . A . T T . . . A S M G A . . . V A G M T W L L G . . . G Q . . .
UniRef100_A0A2T3P069 T T . . . T R A L M . . . M S H L M A I Y I K S Y Q N K L S A L C G . . . A . T T . . . A S M G A . . . V A G M T W L L G . . . G N . . .
UniRef100_A0A2T4T7G6 E L . . . I R A L T . . . L S H L T A I Y I K Q S L G K L S A L C G . . . C . V V . . . A S I G S . . . S C G I T Y I M G . . . G D . . .
UniRef100_A0A2T5C8M1 D L . . . I R A L F . . . L S H L C T V H I K T Q V G R L S A Y C G . . . A . M C . . . A A A G V . . . S G A I S F L M . . . G . . .
UniRef100_A0A2U1E4Q5 K L . . . M R A L V . . . F T N L I A I H Q K R Y I G D L S A Y C G . . . A . V S . . . A A A A . . . C G G I A Y L Y . . . D . . .
UniRef100_A0A2U1FPB7 R T . . . V R A L V . . . L S N L M V I Y I K Q K L G R L S A L C G . . . C . V V . . . A A T G S . . . S C G I T Y L M G . . . G T . . .
UniRef100_A0A2U3BBY7 K T . . . L R A L V . . . L S H M M A I Y I K K Q Q N K L S A L C G . . . A . T T . . . A G M G A . . . A A G I T Y L L G . . . G N . . .
UniRef100_A0A2U8DPR2 K L . . . Y R A L V . . . L T N L I S L H Q K R Y I G N L S A Y C G . . . A . V S . . . A G T A A . . . A C G I A Y L N . . . G . . .
UniRef100_A0A2V1H4Z1 Q L . . . T R A L I . . . L S H L S S I H I K S H L N S L S A L C A . . . A . T T . . . A G T G S . . . S A A I A W L L G . . . K K . . .
UniRef100_A0A2V2C3K4 E I . . . V R A A A . . . A A N L L T V F L K T R A G A D E G . . . R I A P V C G . . . A A L A . . . A G . . . G A . . . A A G G I A M L R G . . . D D . . .
UniRef100_A0A2V2DF95 E L . . . Y R A L I . . . V S N L I A I H I K S G I G P L S A F C G . . . A . V S . . . A G C A A . . . C G G I A W L M . . . G . . .
UniRef100_A0A2V2E3V3 K V . . . L R A L A . . . L S I L V T I H T K H Y I G R L S V L C G . . . C S I A . . . A S I G S . . . C C G I Y Y L F D . . . G S . . .
UniRef100_A0A2V2E4R8 K M . . . L R A L A . . . V S D L I S I Y Q K S G I G C L S A F C G . . . A . V S . . . A G A G A . . . A C G I A Y L L . . . G . . .
UniRef100_A0A2V2EJ75 K T . . . I R A L V . . . A A N L I S I H Q K R F I G L S A Y C G . . . A . T S . . . A A G S A . . . V C G I A Y L D . . . G . . .
UniRef100_A0A2V2ETK2 Q L . . . L R A L A . . . L S D L V T I H L K S G I G R L S A Y C G . . . A . V S . . . A G A G A . . . A A G I C F L Y . . . G . . .
UniRef100_A0A2V2FNF5 Q L . . . Y R A L V . . . L S D L V T I H Q K T G I G S V S A F C G . . . A . V C . . . A G V G A . . . G C G I A Y L Q . . . G . . .
UniRef100_A0A2V2FVB2 A L . . . L R A L L . . . V S D L I T I H Q K T G I G R L S A F C G . . . A . T S . . . A G V G A . . . A C G I A W L D . . . G . . .
UniRef100_A0A2V2GMP9 K L . . . L R A L A . . . L S D L V T I H L K T G I G R L S A Y C G . . . A . V S . . . A G V G A . . . G A G I E Y L R . . . G . . .
UniRef100_A0A2V4A5K8 K L . . . L R G L A . . . L A L L T T I Y M K S F V G Q L S A L C G . . . V . L L . . . S T A G A . . . G C G I T Y I M G . . . G D . . .
UniRef100_A0A2V4E5P6 Q L . . . Y R A L I . . . L S N L I A L Y E K S Y I G K L S A Y C G . . . V . V C . . . A A S G S . . . A A G I T F L M . . . N . . .
UniRef100_A0A2X2T0J3 K L . . . A R A L M . . . L S H L S A I Y I H Y Q L P R L S A L C A . . . A . T T . . . A S M G A . . . A A G M A W L V D . . . G H . . .
UniRef100_A0A2X4V7P6 R L . . . A R A L M . . . L S H L S A I Y I H N Q L P K L S A L C A . . . A . T T . . . A A M G A . . . A A G M T W L L D . . . G S . . .
UniRef100_A0A2Z4U933 K I . . . R R A A A . . . L S I L F T I H T K Q Y L G R L S V L C G . . . C S I A . . . A A M G V . . . G C G I I F M K D . . . G T . . .
UniRef100_A0A2Z4UBV8 V L . . . L R A L L . . . V S N L V S I H L K T G I G T L S A Y C G . . . A . I S . . . A G C G A . . . G A G I T Y L Y . . . G . . .
UniRef100_A0A2Z4W8H1 T Q . . . I R A L A . . . L A N L I A I H I K S Y L G R L S A L C G . . . C . V V . . . S A S G A . . . S A G I V Y L L G . . . G D . . .
UniRef100_A0A2Z5SEU7 T I . . . L R S I A . . . L S H L V N A Y I K C H T G D L A P I C G . . . C A I A . . . A G V G A . . . A A I V Y Q Q A . . . G P . . .
UniRef100_A0A2Z6AV01 E R . . . Q R A I A . . . L S H V V T A Y V K A F T G R L S A Y C G . . . C S V A . . . A G A G A . . . A A G V T L L L G . . . G G . . .
UniRef100_A0A2Z6IAJ8 A R . . . L R A V L . . . L S D L V T I A L K Q G I G K L S A Y C G . . . A . V S . . . A G C S G . . . G A G I A L L K . . . G . . .
UniRef100_A0A315QTM8 E I . . . F K A T M . . . I A H L G H Y A K I Y L G R L S A L C G . . . L F Y A . . . A A P G V . . . L A A L L Y L . . . A . . . G K E . . .
UniRef100_A0A315ZH44 A M . . . Y R A L F . . . V S H L S T V H I K T N V G R L S A Y C G . . . V . M T . . . A S A A V . . . S G A L T F L E . . . G . . .
UniRef100_A0A315ZYP5 N L . . . L R A T A . . . L S Y L I C M Y I K E Y S G K L S A F C G . . . C A I A . . . A G T G M . . . A C A L V Y L R G . . . G D V . . .
UniRef100_A0A315ZY15 K V . . . C R A L I . . . L S N M V T I H Q K T G I G R L S A Y C G . . . A . V S . . . A G A A A . . . G A G I A Y L N . . . G . . .
UniRef100_A0A316D413 E I . . . A K A V A . . . I S H F L S G Y I K Y I V G K L A P I C G . . . A F Y S . . . A G A A A . . . T A G I S Y L M N . . . K N . . .
UniRef100_A0A316MK44 T T . . . L R A V A . . . L G H M V N I Y V K S Y I G V L S P I C S . . . C G I A . . . A G L G A . . . S V A I V Y M L G . . . G S . . .
UniRef100_A0A316N2T0 A L . . . A E A L A . . . L S H L V C G Y L K A Y T G R L T P I C G . . . C S V A . . . A G A G A . . . A A G M A R L M G . . . A N . . .
UniRef100_A0A316NGP8 C L . . . Q R A L A . . . L S Y L V A I A V I R R I G K C P S M C S . . . C E V A . . . A S L G V . . . A A G N V L R L G . . . G T E . . .
UniRef100_A0A316NJU4 K M . . . L R A L A . . . L S N L I S L H E K R Y I G S L S A Y C G . . . A . T S . . . A A T G A . . . A C G I A Y M L . . . G . . .
UniRef100_A0A316NQW2 R L . . . L R A T A . . . I S Y L V C M Y I K E F S G K L S A F C G . . . C G I A . . . G G T G L . . . A C A L A Y L M G . . . G D E . . .
UniRef100_A0A316PL63 M L . . . L R A L V . . . L A N L L S V H Q K K Y I G S L S A Y C G . . . A . T S . . . A A C A A . . . G A A V C W M R . . . G . . .
UniRef100_A0A316PQ13 R L . . . Y R A L L . . . V S D L V T I H Q K T G I G R L S A Y C G . . . A . V S . . . A G C G A . . . G A G I A Y L L . . . G . . .
UniRef100_A0A316PQC6 E L . . . Y R A L I . . . L A N L L G L H Q K A G I G R L S A Y C G . . . A . V S . . . A G C A A . . . G A G I A F L M . . . H . . .
UniRef100_A0A316QLU6 Q L . . . Y R A L L . . . I S N L C A I H Q K S G I G A L S A Y C G . . . A . V S . . . A G A G A . . . G A G I A Y L R . . . G . . .
UniRef100_A0A316R9D7 Q M . . . L R A L V . . . F A N L V P I H I K K R I G P L S A L C G . . . I . V P . . . A S I G A . . . A C G I A F L K G . . . A T . . .
UniRef100_A0A316RJH4 K M . . . L R A V A . . . L S N L V A I Y I K S K F G R L S A L C G . . . A . T V . . . A G T G S . . . A C A I T Y L L G . . . G G L . . .

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| UniRef100_A0A316RT04 |DL..A | RALV | IS | D | L | V | M | H | I | K |E |Y | M | G |R | L | S | P | L | C | G |S | G | I | A | G | G | T | G | A | C | C | G | M | T | Y | L | Q | G |N | | | |
| UniRef100_A0A316STM8 |EL..I | RGLM | LS | H | L | T | V | I | Y | I | K |Q |S | L | G |C | L | S | A | L | C | G |C | V | V | A | A | T | G | S | S | C | G | I | T | Y | L | M | G |N | | | |
| UniRef100_A0A318EHG9 |KL..L | RALC | IS | N | L | I | A | I | Y | Q | K |Y |Q | I | G |R | L | S | A | Y | C | G |A | V | S | A | A | A | G | A | G | A | G | I | A | Y | L | Y |G | | | | |
| UniRef100_A0A329HK89 |RL..R | ARALM | LS | H | L | S | A | I | Y | I | H |Y |Q | L | P |R | L | S | A | L | C | A |T | I | T | A | S | M | G | A | A | G | M | A | W | L | L | D |R | | | | |
| UniRef100_A0A329TRM0 |LL..Y | RALL | VS | N | L | V | T | I | H | L | K |T |G | I | G |P | L | S | A | Y | C | G |A | T | S | A | G | C | A | G | A | G | I | T | Y | L | H |G | ..... |  |  |  |  |
| UniRef100_A0A329TZB5 |KL..L | RALT | LS | N | L | T | T | I | H | E | K |T |P | I | G |R | L | S | A | Y | C | G |A | I | S | A | G | A | G | A | G | I | A | Y | L | C |G | ..... |  |  |  |  |  |
| UniRef100_A0A329U9Y1 |KM..L | RAVT | LS | N | L | I | A | I | R | I | K |S |K | F | G |R | L | S | N | L | C | G |A | T | V | A | G | T | G | A | A | C | I | T | Y | L | L | G |G |G | | | |
| UniRef100_A0A344MMA6 |QL..I | RALT | MS | H | M | T | A | I | Y | I | H |S |F | L | P |K | L | S | A | L | C | A |C | G | T | A | A | M | G | A | A | T | G | M | V | W | L | L | G |G |K | | |
| UniRef100_A0A346AZS6 |DR..L | RAMV | LS | H | M | M | A | I | Y | T | H |S |F | L | P |K | L | S | A | L | C | A |T | I | T | A | S | M | G | S | A | S | G | M | A | W | L | L | D |R |E | | |
| UniRef100_A0A346B2K8 |RL..L | RATA | LS | Y | L | I | T | M | Y | I | K |E |Y | S | G |R | L | S | A | F | C | G |C | A | I | A | A | G | T | G | M | A | C | A | L | A | W | L | K | G |D |L | |
| UniRef100_A0A347AH72 |KE..I | RAVT | LS | N | L | I | T | I | F | I | K |S |N | I | G |R | L | S | A | V | C | G |A | S | I | S | A | M | G | A | C | C | G | I | T | F | L | L | G |G |E | | |
| UniRef100_A0A347AJ71 |ML..I | KAVT | LS | N | L | I | T | I | Y | I | K |S |H | F | G |L | L | S | P | M | C | G |A | I | I | S | A | T | G | A | S | C | G | I | T | Y | L | L | G |G |K | | |
| UniRef100_A0A348N1I3 |RL..Y | RAVY | LS | N | L | L | T | I | H | Q | K |H |A | I | G |R | L | S | A | F | C | G |G | V | S | A | A | A | S | S | A | A | A | L | T | Y | L | S |G | | | | |
| UniRef100_A0A349G9B8 |RL..A | RAAA | IS | H | L | V | N | S | V | I | K |Y |N | I | G |R | L | S | A | L | C | G |C | G | V | A | A | G | T | G | A | S | V | A | I | T | W | L | M | G |G |S | |
| UniRef100_A0A349N0S4 |NL..V | RSLV | F | A | N | L | I | G | L | Y | L | K |S |G | I | G |K | L | S | A | Y | C | G |A | M | S | A | A | S | A | G | A | A | G | I | A | F | L | H |G | | | |
| UniRef100_A0A349P8R7 |RI..L | RSIA | L | S | H | L | V | N | S | Y | I | K |V |F | T | G |E | L | S | P | I | C | G |C | A | V | A | G | V | G | A | S | V | A | I | V | Q | R | S |G |A | | |
| UniRef100_A0A349ZSM2 |RL..Y | RALL | IS | N | L | I | T | L | H | A | K |S |G | I | G |R | L | S | A | Y | C | G |A | V | S | A | G | A | G | A | G | A | G | I | A | F | L | H |G | | | | |
| UniRef100_A0A350BGQ8 |VI..A | ARSLA | Y | S | L | A | V | T | I | Y | V | K |E |Y | F | G |L | L | S | P | V | C | G |C | A | V | A | A | G | A | G | S | A | A | G | L | T | I | R | E |G |D | |
| UniRef100_A0A350IFD9 |KL..A | RALI | LS | N | L | V | A | I | H | I | K |G |Y | L | G |R | L | S | A | L | C | G |C | V | V | A | S | T | G | S | S | C | G | L | V | W | L | R | G |G | | | |
| UniRef100_A0A350W0I4 |KL..Y | RALV | F | S | S | L | L | T | F | Q | K |E |F | I | G |K | L | S | A | F | C | G |A | V | S | A | S | C | A | S | A | A | A | I | T | Y | L | A |G | | | | |
| UniRef100_A0A350X275 |MM..Y | RAVY | L | A | N | L | I | T | I | H | Q | K |T |G | I | G |R | L | S | A | Y | C | G |A | V | S | A | A | C | G | S | G | A | A | A | I | T | Y | L | E |G | | |
| UniRef100_A0A351AS26 |RL..A | RALI | LS | N | L | V | A | I | H | I | K |G |Y | L | G |K | L | S | A | L | C | G |C | V | T | A | S | T | G | S | A | C | G | I | V | F | L | R | G |N | | | |
| UniRef100_A0A351EDR8 |KM..I | RAVA | L | S | D | L | V | T | I | H | L | K |S |G | I | G |R | L | S | A | Y | C | G |A | V | S | A | G | C | G | A | G | I | A | Y | L | Y |G | ..... |  |  |  |  |
| UniRef100_A0A351TJ11 |KL..Y | RALV | F | S | S | L | L | T | I | Y | Q | K |E |F | I | G |K | L | S | A | F | C | G |A | V | S | A | S | C | A | S | A | A | A | I | T | Y | M | V |G | | | |
| UniRef100_A0A351UIB2 |RI..L | KSIA | L | S | H | L | V | N | S | Y | I | K |V |F | T | G |E | L | A | P | I | C | G |C | A | V | A | G | V | G | A | S | V | A | V | W | Q | R | S |G |P | | |
| UniRef100_A0A351UVB6 |QT..I | RALV | L | S | H | L | T | S | I | Y | I | K |Q |S | L | G |R | L | S | A | L | C | G |C | V | V | A | S | T | G | A | S | A | A | I | V | Y | L | M |G | | | |
| UniRef100_A0A351UVG4 |QL..Y | RALT | LS | N | L | V | A | I | H | Q | K |T |G | I | G |R | L | S | A | Y | C | G |A | V | C | A | G | A | A | A | G | A | G | I | A | Y | L | C |G | | | | |
| UniRef100_A0A351XYN7 |QL..I | RALI | LS | N | L | T | M | Y | I | Y | K |Q |H | I | G |R | L | S | A | L | C | G |C | V | V | A | S | T | G | A | S | C | G | I | T | W | L | M | G |N | | | |
| UniRef100_A0A352A5R7 |DL..S | KALA | I | S | H | V | T | A | Y | V | K |H |Y | I | G |R | L | S | P | L | C | G |C | S | T | A | A | S | T | G | S | A | C | A | I | T | W | L | M | G |G |S | |
| UniRef100_A0A352HTF0 |QT..I | RALT | L | S | H | L | T | S | I | Y | I | K |Q |S | L | G |C | L | S | A | L | C | G |C | V | V | A | S | T | G | A | S | C | G | I | V | Y | L | M | G |G | | |
| UniRef100_A0A352NCV1 |KL..I | RALT | L | S | H | L | T | A | L | Y | I | H |A |F | L | P |L | L | S | A | Y | C | A |T | D | S | A | A | M | G | A | A | A | L | I | Y | L | E | S |E |D | | |
| UniRef100_A0A352P5R0 |KL..Y | RALA | L | S | N | L | S | A | I | H | Q | K |T |P | I | G |R | L | S | A | Y | C | G |A | V | N | A | G | A | G | A | G | A | G | I | A | Y | L | C |G | | | |
| UniRef100_A0A352ZB45 |KL..L | RALA | V | S | N | L | V | A | I | H | Q | K |E |Y | V | G |K | L | S | A | Y | C | G |A | V | S | A | A | V | G | A | A | A | G | I | A | Y | L | Q |G | | | |
| UniRef100_A0A353BWM0 |KK..I | RAVT | L | S | H | L | I | T | I | Y | I | K |L |K | F | G |R | L | S | A | L | C | G |A | T | T | S | A | I | G | A | S | C | G | I | T | Y | L | L | G |G |D | |
| UniRef100_A0A353E5G4 |EL..I | RALM | L | S | H | L | T | A | I | Y | I | K |Q |S | L | G |K | L | S | A | L | C | G |C | V | T | A | S | T | G | S | S | C | G | I | T | Y | L | M | G |G |D | |
| UniRef100_A0A353JZW6 |KL..A | ARALA | F | S | H | L | V | T | I | Y | I | K |E |Y | T | G |K | L | S | P | I | C | G |C | S | T | A | A | G | I | A | S | V | S | V | A | W | L | I | G |C |N | |
| UniRef100_A0A353Q9I3 |AL..V | RALI | L | S | H | L | T | V | I | Y | V | K |Q |Y | L | G |R | L | S | A | L | C | G |C | V | V | A | T | T | G | A | S | C | G | L | V | H | L | M | G |N | | |
| UniRef100_A0A353RNY3 |EL..I | RALI | LS | N | L | M | M | I | Y | I | K |Q |H | I | G |R | L | S | A | L | C | G |C | V | V | A | S | T | G | A | S | C | G | I | T | Y | L | M | G |G |S | | |
| UniRef100_A0A353WQJ7 |QL..T | RALT | L | S | H | L | T | A | I | Y | I | K |Q |S | L | G |R | L | S | A | L | C | G |C | V | V | A | A | T | G | S | S | C | G | I | T | Y | L | M | G |G | | |
| UniRef100_A0A354CVH6 |QL..Y | RALL | I | S | N | L | V | T | I | H | L | K |T |G | I | G |C | L | S | A | Y | C | G |A | I | S | A | G | C | A | G | A | G | I | T | Y | L | Y |G | | | | |
| UniRef100_A0A354KVM3 |KL..A | AKALA | I | S | H | L | V | T | A | Y | V | K |N |F | T | G |R | L | S | A | V | C | G |C | G | V | A | A | S | T | G | A | S | A | G | I | A | W | L | M | D |G |K |
| UniRef100_A0A354WYR3 |QL..I | RALM | L | S | H | L | M | V | I | Y | I | K |Q |S | L | G |R | L | S | A | L | C | G |C | V | V | A | A | T | G | A | S | C | G | I | T | W | L | M | G |G |T | |
| UniRef100_A0A354ZC21 |DI..A | RAIA | V | S | H | L | S | T | S | L | V | K |S |R | V | G |R | L | S | S | V | C | G |C | V | V | A | A | G | A | G | A | A | G | A | W | L | M | G |G | | | |
| UniRef100_A0A354ZK32 |EI..A | AYALA | V | S | H | L | S | T | S | Y | V | K |S |R | L | G |R | L | T | S | I | C | G |C | A | V | A | A | G | A | S | G | A | A | G | M | V | T | L | L | G |G |S |
| UniRef100_A0A355C672 |SL..I | RALI | L | S | N | L | S | T | I | Y | I | K |Q |Y | L | G |R | L | S | A | L | C | G |C | V | V | A | S | A | G | S | S | C | G | I | T | Y | L | M | G |N | | |
| UniRef100_A0A355MAF9 |KL..L | RALF | F | S | H | L | T | V | H | I | K |T |K | V | G |E | L | S | A | Y | C | G |A | V | C | A | A | A | A | V | S | G | A | I | A | F | L | D |D | | | | |
| UniRef100_A0A355PSM2 |TL..L | RATA | L | S | Y | L | T | V | M | Y | I | K |E |Y | S | G |K | L | S | A | F | C | G |C | A | I | A | A | G | T | G | M | A | C | G | L | V | M | R | G |D |T | |
| UniRef100_A0A355TT25 |KL..Y | RALV | F | S | N | L | M | T | I | Y | Q | K |K |F | I | G |C | L | S | A | F | C | G |A | V | S | A | S | C | A | S | A | G | V | A | L | T | Y | I | N |G | | |
| UniRef100_A0A355UQR3 |TI..Y | KSIA | L | S | H | L | L | N | A | Y | V | K |V |F | T | G |E | L | A | C | T | I | C | G |C | A | I | A | A | G | V | G | A | T | A | I | V | Y | Q | Q | K |G |K |
| UniRef100_A0A355YLJ0 |KL..Y | RALV | IS | N | L | T | A | I | H | L | K |T |G | I | G |R | L | S | A | Y | C | G |A | V | S | A | G | A | G | | | | | | | | | | | | | | |

UniRef100_A0A3A5R7E4 ET . . . L RALI . VSNLVSIIYIK H YI G PLSAFCG . . . A . VS . ASTGA . GAAITFMA . T . . .
UniRef100_A0A3A6NWZ1 DI . . . L RAIG . LSHIITAYVK T HT G RLSAVCG . . . CSVA . AGAGA . ASGVTYLLG . GD . .
UniRef100_A0A3A6QCR2 QT . . . I RALM . LSHLMNAVYIK S YQN KLSALCG . . . A . TT . ASMGS . AAGITYLLG . GN . .
UniRef100_A0A3A8U1P1 QL . . . V KALA . FSHALNVYIK M YT G KLSATCG . . . CGVS . AATAA . AASMVWLMG . GS . .
UniRef100_A0A3A8UIV9 EL . . . Y RALV . LSNLVTIHKQ T GI G RLSAYCG . . . A . VS . AGCGA . GCGIAYLL . G . .
UniRef100_A0A3A8UPF0 KL . . . L RALA . LANLTAIHEK T PI G RLSAYCG . . . A . VS . AGAGA . GAGIAYLS . G . .
UniRef100_A0A3A8Z6E7 KI . . . F RALV . LSNLITIHKQ T RI G RLSAYCG . . . A . VS . AGAAA . GAGIAYLD . G . .
UniRef100_A0A3A9AN50 KM . . . Y RALA . VSNLVAIHKQ K YI G SLSAYCG . . . A . VS . AACGA . GAAITWLY . G . .
UniRef100_A0A3A9BHR1 KT . . . L RALA . LSNLCAIHKQ T RI G RLSAYCG . . . A . VN . AGSGA . GAGIAYLC . G . .
UniRef100_A0A3A9BSG2 QL . . . V KALA . FSHALNVYIK S YT G KLSATCG . . . CGVS . AATAA . SAAMVWLMG . GN . .
UniRef100_A0A3A9CYB0 EL . . . Y RALL . VSNLVTIHLK S GI G RLSAYCG . . . A . VS . AGAGA . GAGIAYLL . T . .
UniRef100_A0A3A9EDE3 EM . . . Y RALV . LSNLVTIHKQ T GI G RLSAYCG . . . A . VS . AGCGA . GCGIAYLL . G . .
UniRef100_A0A3A9EDL9 KT . . . L RALA . LSNLCSIHKQ T KI G RLSAYCG . . . A . VN . AGSGA . GAGIAYLC . G . .
UniRef100_A0A3A9ELN6 KL . . . H RALL . VSDLVTIQQK S GI G RLSAYCG . . . A G IAYLL . D . .
UniRef100_A0A3A9FPZ7 KL . . . Y RALL . VSDLVTIHKQ S GI G RLSAYCG . . . A . VS . AGSGA . GAGIAYLL . D . .
UniRef100_A0A3A9FW91 KL . . . Y RALV . VSNLISIHKQ K YI G SLSAYCG . . . A . VS . AACGS . GAAITYLY . G . .
UniRef100_A0A3A9HQJ2 EI . . . M RALA . ASFLLCVMYK S LI G RLSMPCA . CAIA . SSVGI . AGGMVMLLG . GGT . .
UniRef100_A0A3B8RB37 QT . . . V RALI . LSHLTSIYIK Q SLG RLSALCG . . . C . VV . ASTGA . SGALVYLMG . G . .
UniRef100_A0A3B8XA78 PL . . . A RALI . LSNLVAIHIK H YL G KLSALCG . . . C . VV . ASTGS . ACGIVYLLQ . G . .
UniRef100_A0A3B9ECG9 RL . . . L RALV . LSYLTTIYIK T FTG VLSPICG . . . CGVA . AAVGA . GCGIVFLLG . GS . .
UniRef100_A0A3B9FAN4 EL . . . V RALA . LSHLTVIYIK Q SLG PLSALCG . . . C . VV . ASIGA . SSGIVYLMG . GS . .
UniRef100_A0A3B9IBT1 KM . . . Y RCLL . VSNLVSIIYIK H YI G SLSAFCG . . . A . VS . AACGA . GAGITYMS . G . .
UniRef100_A0A3B9Q7L5 TT . . . L RAVL . LSDLVTIALK Q GI G KLSAYCG . . . A . VS . AGCGS . GAGIGFLE . G . .
UniRef100_A0A3B9RT85 AL . . . G KALV . LSELVLGSLT A RKN RLSALCG . . . A . FT . AAI GT . ACGLVYLLD . GD . .
UniRef100_A0A3B9TS24 DT . . . A KAIA . LSHLTTSPFIK S RMG RLSPVCG . . . CSVA . AGAGA . AAGIAYLRS . KS . .
UniRef100_A0A3B9YD34 TI . . . L RSIA . LSHLLNAFVK V HTG ALAPICG . . . CAIA . AGVGA . AAAIVYQK . GA . .
UniRef100_A0A3C0D3C1 KM . . . L RAVT . LSNLIAIRIK A KFG RLSNLCG . . . A . TV . AATGA . ACGIAYLLG . GGY . .
UniRef100_A0A3C0KX94 RI . . . QESIA . VSHAVNSYIK S YT G ELSVTCG . . . CAIA . ASISA . AIAIVYQQA . GI . .
UniRef100_A0A3C0NP20 EL . . . L RALT . VSNLVTIHLK T GI G RLSAYCG . . . A . VS . AGAGA . ACGIAYLO . G . .
UniRef100_A0A3C0SSE4 QL . . . L RATA . LSYLITMYIK E YS G RLSAFCG . . . CAIA . AGTGM . ACALVFMKN . GTL . .
UniRef100_A0A3C1ELK2 AI . . . CRSIA . FSHLLNAVYVK I FTG GLAPVCG . . . CAIA . AGVGA . AAAIVYQRN . GR . .
UniRef100_A0A3C1F9S1 TI . . . L KSIA . LSHLLNGYVK V FTG ELAPICG . . . CAIA . AGVGA . TAAITYQK . GN . .
UniRef100_A0A3C1Q9K3 EI . . . A RAVA . VSLSTSIFVR S KTG RLTPICG . . . CSVA . AGAGA . AAGMACLLG . GD . .
UniRef100_A0A3D0MPX6 AL . . . L RSLA . LSLFLVTIYK S HIG RLSPMCA . CAIA . AGLGV . TSGMVLMLD . GSF . .
UniRef100_A0A3D1D0D1 EL . . . I RALT . LSHLTAIYIK Q SLG ALSALCG . . . C . VV . ASTGA . SCGIVYLMG . GD . .
UniRef100_A0A3D1HK1K EL . . . I RALV . MSNLTAIYIK Q NLG TLSALCG . . . C . VV . ASTGS . SCGITLYLMG . GT . .
UniRef100_A0A3D1M5K9 KL . . . Y RALV . LGNLVSIIHEK A PI G VLSAYCG . . . A . VS . AGAGA . AAGIAYLY . D . .
UniRef100_A0A3D1N2N5 RI . . . L KSIA . LSHLVNAYIK V YT G ELAPICG . . . CAVA . AGVGA . AVAIVWQK . GA . .
UniRef100_A0A3D1NE50 AL . . . L RALV . VSNLVTIHKQ T GI G RLSAYCG . . . A . VS . AGCGA . GAGIAYLH . G . .
UniRef100_A0A3D1T396 AM . . . AVALA . TSHVVTGFVK S KLG RLSPVCG . . . CTVA . AGSGA . AAGLVRFLG . GT . .
UniRef100_A0A3D1V9H2 ML . . . Y RALV . VSNLVTIHLK T GI G SLSAYCG . . . A . TA . AGCGA . AAGVYLY . G . .
UniRef100_A0A3D1WY02 HL . . . V RALC . TSHLVALVLT A KKD RLSALCG . . . A . FT . AAI GT . ACGLVYLLQ . GS . .
UniRef100_A0A3D1X7S0 QL . . . Y RALV . VSNLVTIHLK T GI G SLSAYCG . . . A . TS . AGCGA . GAGVCYLY . G . .
UniRef100_A0A3D2BIJ5 KT . . . A RALI . LSHLLAIYIH H KFP ALSALCA . A . TT . ASMGA . AGAIAWLME . ER . .
UniRef100_A0A3D2GB33 KV . . . V KAVL . LSVLVTIYVK A YT G KLTPICG . . . AGSI . ASSGT . AAGFTYLHT . DD . .
UniRef100_A0A3D2GZC8 KE . . . LRAIA . LAALANVYIK S FIG PLSVCA . CGVA . SGLSA . SLGVYLLG . GG . .
UniRef100_A0A3D2I8K7 TI . . . L RAVC . LSDLITIHKQ T GI G RLSAYCG . . . A . VS . AGVGA . GAGIAYLR . G . .
UniRef100_A0A3D2KM10 AL . . . A RALV . LAHAVNLVFK A FTG GVSALCG . . . S . VT . GAAV . AAACHLAG . GSP . .
UniRef100_A0A3D2ND9A EL . . . I RALT . LSHLTAIYIK Q SLG KLSALCG . . . C . VV . ASIGS . SCGIVYLMG . GD . .
UniRef100_A0A3D2P0A7 KL . . . A RALA . LSHLVTAYIK E YT G KLSPVCG . . . CSVA . AGICA . SASIAWLLG . GGY . .
UniRef100_A0A3D2SHK3 EL . . . I RALM . MSHLTVIYIK Q SLG RLSALCG . . . C . VV . AATGS . SCGITWLMG . GG . .
UniRef100_A0A3D2W3X1 KL . . . Y RALL . ISCLLTLMHK A GI G RLSAYCG . . . A . VS . AGAGA . GAGIAYLH . G . .
UniRef100_A0A3D3CDZ3 KI . . . AHGLL . VSHLATAYVK S RTG RLSTTCG . . . CAF . AAGS . AAGMTWLMT . ED . .
UniRef100_A0A3D3FT93 RM . . . H RALV . LSNLVAIHKQ T RI G SLSAYCG . . . A . VC . AACGS . GAAIAWMD . G . .
UniRef100_A0A3D3MPV7 EL . . . V RALT . LSHLTAIYIK Q SLG KLSALCG . . . C . VV . ASIGS . SCGITLYLMG . GD . .
UniRef100_A0A3D3QSD6 LI . . . IRSVA . LSHLVTIYVK V HLG VLTPIVCG . . . CGVA . AGVGC . AAGIAYLKS . GT . .
UniRef100_A0A3D3RH36 KM . . . Y RALA . VSNLISIHKQ K YI G SLSAYCG . . . A . VS . AACGS . GAGITYLY . G . .
UniRef100_A0A3D3TCL4 EL . . . I RALT . LSNLVTIYIK Q SLG RLSALCG . . . C . VV . AATGS . SCGITLYLMG . GC . .
UniRef100_A0A3D3UQ13 DV . . . LRAIA . LSHIITGVYK S HTG RLSAVCG . . . CSVA . AGAGA . AAGTAYLMG . GD . .
UniRef100_A0A3D3W8G7 KL . . . Y RALV . LSNLNSMHQK R YI G NLSAYCG . . . A . VS . AGASA . ACGIAYLH . G . .
UniRef100_A0A3D4E8U0 QL . . . S RALI . LSNLVAIHIK G YL G KLSALCG . . . C . VI . ASTGS . ACGIVYLRG . GS . .
UniRef100_A0A3D4G5E1 TI . . . L RAVC . LSDLITIHKQ T GI G RLSAYCG . . . A . VS . AGVGA . GCGIAYLR . G . .
UniRef100_A0A3D4LM30 KI . . . LRSVT . LSHLITIHKQ V YL G ALSPVCG . . . CGVA . AGVGC . AAGLTYMLS . GN . .
UniRef100_A0A3D4MUG6 QL . . . Y RALA . VSDLVTIHKQ T GI G RLSAYCG . . . A . VS . AGVGA . GAGIAYLL . G . .
UniRef100_A0A3D4QA04 KM . . . E RALL . VSNLVSIIYIK H YI G ALSAFCG . . . A . VS . ASCGA . GAGITYLS . G . .
UniRef100_A0A3D4XHK1 EL . . . A RALV . LAHLVAIHIK G YL G KLSALCG . . . C . VI . ASTGA . SCGIVYLLG . GN . .
UniRef100_A0A3D4ZGW0 KL . . . A RALL . LSQLVGLALT A RKN RLSALCG . . . A . FT . AAI GT . ACGLVYLLD . GT . .
UniRef100_A0A3D5MNT0 SL . . . A RALV . LAHAVNLVFK A FTG EVSALCG . . . S . VT . GAAV . AAACHLAG . GSL . .
UniRef100_A0A3D5NPE1 DL . . . L RATA . LSHLVTIYIK T KFG RLSALCG . . . A . TI . AATGA . SCGITYLLQ . GKK . .
UniRef100_A0A3D5PD50 RI . . . L RALI . VADLTTIHKQ T GI G RLSAYCG . . . A . VS . AGCGA . ACGIAYLN . G . .
UniRef100_A0A3D5TFZ3 NI . . . L RAVA . LSDLITIHKQ T GI G RLSAYCG . . . A . VS . AGVGA . GAGIAYLR . G . .
UniRef100_A0A3D5U8T4 QL . . . V RALA . MGHLSVVMK N KI G LLSCTICG . . . C . LS . AAAA . ASGIVLLLG . GD . .
UniRef100_A0A3D5UCW1 RI . . . I RAVT . LSHLVTIEVK V HLG RLSPVCG . . . CGVA . AGVGC . AAGLTYLLD . GN . .
UniRef100_A0A3D5YS30 QL . . . Y RALF . FSHLTTVHIK S KI G RLSAYCG . . . P . MC . AAAGV . AGAIGLLN . D . .
UniRef100_A0A3D6BI84 QL . . . L RALC . VSNLITIHKQ T PI G RLSAFCG . . . A . VS . AGCGA . AAGVAYLL . E . .
UniRef100_A0A3D8J5V0 LI . . . L RALF . LSHLVAIYIH S KLP KLSALCA . V . TT . AGIGS . YAGIAWFLS . KD . .
UniRef100_A0A3D9A0A1 ER . . . I RALT . LSHLTAIYIH A FL P VLSAFCA . A . DS . AAMGS . AAGIAYLLT . KD . .
UniRef100_A0A3E2NDI2 TM . . . Y RALA . LSNLTSIHKQ T PI G RLSAYCG . . . A . VN . AGAGA . GAGIAYLC . G . .
UniRef100_A0A3E2TTU9 QL . . . Y RALV . VSNLVAIHKQ K YI G SLSAYCG . . . A . VS . AACGS . GAAITYLY . G . .
UniRef100_A0A3E2UCE9 TM . . . L RAVT . LSNLIAIRIK S KFG RLSNLCG . . . A . TV . AGTGA . ACGITYLLG . GGY . .
UniRef100_A0A3E2VXF0 QL . . . Y RALL . ISNLSTLYQK K YI G RLSAYCG . . . A . VS . AGAGA . GAGIAYLL . G . .
UniRef100_A0A3E3DCN8 RL . . . Y RALV . LSNLIIAHLK T GLG RLSAYCG . . . A . VS . AGSGA . GCGIAWLK . G . .
UniRef100_A0A3E3DHD3 KL . . . L RALA . LSCLTTHVK Q YI G KLSPLCG . . . CGMG . SSGIV . CCALVYMQG . GG . .
UniRef100_A0A3E3E7L6 KL . . . Y RALL . ISNLITMHLK Y GI G KLSAYCG . . . V . VS . AGVGA . ACGICYLE . G . .
UniRef100_A0A3E3E836 QL . . . Y QATA . LSYLICMYIK E YS G KLSAFCG . . . CGIA . AGTGM . ACGLVYLLQ . GNK . .
UniRef100_A0A3E4F607 KT . . . Y RALA . LSNLIIAHIKQ T GI G RLSAYCG . . . A . VS . AGAAA . GAGIAYLC . G . .
UniRef100_A0A3E4GUD7 MM . . . L RALV . VSNLITIHKQ T GI G RLSAYCG . . . A . VS . AGCGA . GAGICYLY . G . .
UniRef100_A0A3E5BSB1 EL . . . I RALM . LSHLTVIYIK Q SLG RLSALCG . . . C . VV . AATGS . SCGITWLMG . GS . .
UniRef100_A0A3G9GUB8 KR . . . Y RALL . VSNLITIHLK S GI G RLSAYCG . . . A . VS . AGCAS . GAGIAYLY . G . .
UniRef100_A0A3G9JP81 RL . . . L RALA . LSNLVAIHEK T GI G TLSAYCG . . . A . VT . AGAGA . GAGIAYLL . E . .
UniRef100_A0A3N0IVB1 RL . . . Y RALV . LSNLVAIHKQ T GI G RLSAFCG . . . A . VS . AGAAA . GAGIAYLD . G . .
UniRef100_A0A3N1WCR8 KL . . . ARSLI . LSHLVAIYIH S KLP TLSALCA . V . ST . ASMG . AAGIAWLLG . GD . .
UniRef100_A0A3N1YL98 EA . . . L KAVA . LSMLITIYVK L FIG RLSVICG . . . AA . VA . SGC . AGIAYLES . D . .
UniRef100_A0A3N2DXY3 KL . . . ARSLI . MSHLGAIYIK S HYP PLSPIVCG . . . N . TV . TSAA . SMGLVYLLG . GS . .
UniRef100_A0A3N2KSY6 QT . . . I RALI . LSHLTSIYIK Q SLG RLSALCG . . . C . VV . ASTGA . SAAIVYLMG . GG . .
UniRef100_A0A3N2MDS7 KT . . . I RALM . MSNLTSIYIK Q SLG RLSALCG . . . C . VV . ASTGA . SAGLTYLMG . GG . .
UniRef100_A0A3N2N806 QT . . . I RALV . LSHLTSIYIK Q SLG RLSALCG . . . C . VV . ASTGA . SSALVYLMG . GG . .
UniRef100_A0A3N5KH61 TV . . . LTSIA . FSHLLNAYIK C FTG DLAPICG . . . CAIA . AGVGA . AAAIVYQQA . GK . .
UniRef100_A0A3N5LTA0 TI . . . LESIA . LSHIVTAYVK A HTG RLSALCG . . . CSIA . AGAGA . AAGITHLMG . GT . .
UniRef100_A0A3N5Z0J3 TI . . . FKSIA . LSHLVNGYIK Y YT G DLSPICG . . . CAIA . AGVGA . AVAIVYQRS . GK . .
UniRef100_A0A3N6MSR7 AL . . . ARSLA . LSHLVAISTH A RYT RLSALCA . V . TT . AAMGA . AAGMSWFLA . RD . .
UniRef100_A0A3N9QPF7 KL . . . A RALM . LSHLTAIYIH S KLP ALSALCA . V . TT . ASMG . AAGMAWLLD . NK . .
UniRef100_A0A3P1Y7P1 EI . . . ARAIA . YSHLATSIIK S RMG RLSPVCG . . . CAVA . AGAGA . AAGIVKLLG . GD . .

UniRef100_A0A3P1ZCK5 E L . . T R A L M . . L S H L T A I Y I K Q H L G T L S A L C G . . C . V V . A S T G S . A C G I T L L M G . G N . .
UniRef100_A0A3P1ZVF1 K L . . I R A L A . . L S H L V T I A I K E L S G P L S P V C G . . C A I A . A G V G A . A V A V A W L L G . C E D . .
UniRef100_A0A3P3R193 K L . . Y R A L A . . L S N L T S I H Q K H G I G T L S A Y C G . . A . V S . A G A G A . G A G I A Y L T . E . . .
UniRef100_A0A3Q9B6K4 K L . . I R A T F . . F G H A I N N P I K A Y T G K L S V I C G . . C A I G . A G I G A . S A G I T W L L G . G K E . .
UniRef100_A0A3R5WWV9 Q L . . Y R A L V . . L S N L V A I H Q K T G I G R L S A Y C G . . A . V C . A G A A . G T G I A Y L C . G . . .
UniRef100_A0A3R5Z781 M L . . Y R A T A . . L S Y L V C M Y I K E Y S G K L S A F C G . . C G I A . A G T M . A C A L V Y L N G . G D E . .
UniRef100_A0A3R5Z241 Q E . . V R A L A . . L S H L V N R Y I N A K I G K L S P M C T . . C V M A . A S T A A . A A G M A Y L F G . G T . .
UniRef100_A0A3R6AZQ5 T L . . V K A L A . . V S N L M T I Y Q R T R I G K L S A F C G . . A . V N . A G C A S . G T G I A Y L M . G . . .
UniRef100_A0A3R6J8M8 T M . . Y R A M A . . L S D L T T I H Q K S P I G R L S A Y C G . . A . V S . A G A G S . G A G I A Y L S . G . . .
UniRef100_A0A3R6NDL9 Q L . . L R A L A . . M S F L M T I C V K N R I G R V S S M C A . . C V T A . A S Q G V . A A G A S M L L G . G D L . .
UniRef100_A0A3R6NZK5 A M . . Q R G I A . . L S Y C L A I A I I H R I G K D P S M C S . . C E V A . A A I G V . A A G T V L L H G . G T Q . .
UniRef100_A0A3R6PRW7 Q L . . Y R A L T . . L S N L T T I H E K T P I G R L S A Y C G . . A . I S . A G A G A . G A G I A Y L C . G . . .
UniRef100_A0A3R6Q0J7 M R . . Y R A L T . . L A N L T T I H V K T P I G R L S A Y C G . . A . V S . A G A G A . G A G I A Y L C . G . . .
UniRef100_A0A3R6SQM7 K M . . Y R A L A . . L S N L T A I H Q K T P I G R L S A F C G . . A . I S . A G V G A . G A G I S Y L K . G . . .
UniRef100_A0A3R6VXH6 K E . . Y R A L V . . L S N L V A I Y Q K N E L G K L S A Y C G . . A . V S . A A T G A . G A G I A Y L H . G . . .
UniRef100_A0A3S0AVY6 E L . . Y R G L F . . F S H L S S V H I K A S I G R L S A Y C G . . P . M C . A A G A V . A G A I S V M S . G . . .
UniRef100_A0A3S0AXB5 K E . . I R A L T . . L S H L T A L Y I H A F L P V L S A F C A . . A . D S . A A M G A . A A G I V Y L L D . G E . .
UniRef100_A0A3S6GF254 Q L . . A R A L M . . L S H L M A I Y I H S Q L P S L S A L C A . . A . T T . A S M G A . A A G M A W L I E . P G . .
UniRef100_A0A3S9GWJ1 E I . . A R A I A . . I S H L T T S V V K S K I G R L S P V C G . . C A V A . A G S G A . A A G L T Y I L E . G N . .
UniRef100_A0A3S9PA89 Q M . . Y R A L F . . M S H L T T V H V K T N V G R L S A Y C G . . A . M T . A S A A V . S G T I V L F L E . G . . .
UniRef100_A0A3T0I0D0 K M . . I R A V A . . L S H L I T I H I K S K F G R L S A L C G . . V . T A . A G M G A . S G A I V Y L L G . G G L . .
UniRef100_A0A3T0L0Z0 E T . . F R A L A . . L S M L T I V V V K L F I G R L S A I C G . . A A F A . S G C G V . A G A I S Y L E S . K N . .
UniRef100_A0A401M0C1 E L . . I R A L I . . L S H L T V I Y I K Q S L G R L S A L C G . . C . V V . A A T G S . S C G I T R L M G . G N . .
UniRef100_A0A401UQW0 K L . . A K A V A . . I S H I M N S Y I K H Y I G R L S A L C A . . C G V A . A G T G S . G V A I A W L M G . A S E . .
UniRef100_A0A410DCK0 K L . . Y R A L V . . L S N L T T I Y Q K A G I G R L S A Y C G . . A . V S . A G C G A . G A G I A Y L H . G . . .
UniRef100_A0A410PIL5 K L . . L R A L V . . V S N L V T I H Q K T G I G R L S A F C G . . A . V C . A G C G S . G T G I A Y L H . G . . .
UniRef100_A0A410PZ62 E T . . L R A L V . . V S N L I T I H Q K S S I G R L S A F C G . . A . V S . A G C G A . G A A I A W L E . T . . .
UniRef100_A0A413CYD7 K E . . L K A L A . . L G H L L N R Y I N S Y I G K L S P M C T . . C V M A . S S T A C . S A A L V Y M F G . G N . .
UniRef100_A0A413G3M3 K L . . L R A T A . . L S Y L V C M Y I K E Y S G R L S A F C G . . C A T A . A G T M . A C A L V F L R D . G T V . .
UniRef100_A0A413G636 K T . . I R A V T . . L S H M T A I Y I K Q H L S S L S L C G . . A . I V . A A I G A . G C G I V Y L L G . G D . .
UniRef100_A0A413I6J2 K L . . Y R A L A . . L S N L I A I H Q K T G I G R L S A Y C G . . A . V C . A G A A . G T G I A Y L C . G . . .
UniRef100_A0A413JB40 Q L . . L R A T A . . L S Y L I C M Y I K E Y S G K L S A F C G . . C A I A . A G T M . A C A L V Y L R G . G T V . .
UniRef100_A0A413VL79 V L . . L R A V A . . L S C L V S I M T I S N I G K S P A M C S . . C M V S . A A L G V . A C G L V L M M D . G S Y . .
UniRef100_A0A413WGH3 K L . . Y R A L V . . L S N L L T I H Q K T P I G R L S A Y C G . . A . V N . A G A A . G C G I A Y L K . G . . .
UniRef100_A0A413XHM0 E L . . F R A L V . . L S N L I T I H Q K T G I G R L S A Y C G . . A . V S . A G C G A . G C G I A F L L . G . . .
UniRef100_A0A414FT31 E L . . I R A L V . . L S H L T A I Y I K Q N L G R L S A L C G . . C . V V . A A T G S . S C G I T Y L M G . G E . .
UniRef100_A0A414G090 R L . . L R A L A . . L S D L V A I H V K S Y I G A L S A F C G . . V . V C . A G C G A . G A A I E W M R . G . . .
UniRef100_A0A414RYC9 K L . . Y R A L A . . L S N L T A I H E K T P I G R L S A Y C G . . A . V N . A G A G A . G A G I A Y L C . G . . .
UniRef100_A0A415E212 Q L . . I R A L M . . L S H L M V I Y I K Q S L G R L S A L C G . . C . V V . A A T G A . S C G I T Y L M G . G D . .
UniRef100_A0A415EKW6 K L . . Y R A L I . . V S N L I S I H Q K R Y I G S L S A Y C G . . A . T S . A A C G S . G A G I A Y M M . G . . .
UniRef100_A0A415T4U2 N L . . Y R A L L . . I S N L M T V H Q K L R I G R L S A Y C G . . V . V A . A G A G A . G A G I A Y L L . G . . .
UniRef100_A0A415X877 K M . . Y R A L L . . V S N L V S I Y I K H Y I G A L S A F C G . . A . V S . A A C G S . G A A I T F M A . G . . .
UniRef100_A0A415XE99 K M . . F R A L A . . L S N L V A I H E K S G I G T L S A Y C G . . A . V S . A A T G A . G A G I A Y L Y . D . . .
UniRef100_A0A415YM35 E L . . L R A L A . . L S C L V T I Y I K E Y S G R L S A L C G . . C A L A . G G T G T . A C G L V L L F G . G S D . .
UniRef100_A0A415YV05 E L . . A R A L A . . L S D L I T V H I K S Y I G R L S P L C G . . S G I A . G G T G S . C C A M I Y L M G . G K . .
UniRef100_A0A416EL32 Q L . . Y R A L L . . I S N L I S I H L K H G I G P L S A F C G . . A . V S . A G C A A . G C G I A Y L Q . G . . .
UniRef100_A0A416HB65 M L . . Y R S L A . . L S I L I T I H A K Q Y I G R L S V L C G . . C S I A . S A I G V . S G A M V Y L Y G . G T . .
UniRef100_A0A416HK58 K L . . Y R A L L . . I S N L T A I H L K E G I G R L S A Y C G . . A . V S . A G T G A . G A G I A Y L M . G . . .
UniRef100_A0A416HL10 M L . . Y R A L I . . V S N L I S V H Q K R Y I G N L S A Y C G . . A . V S . A G T A A . V C G I A Y L D . G . . .
UniRef100_A0A416JVW4 K M . . L R A L T . . L S N L T T I H E K T P I G R L S A Y C G . . A . V S . A G A C A . G A G I A Y L C . G . . .
UniRef100_A0A416Q974 K M . . Y R A L V . . V S N L I A I H Q K T Y I G S L S A Y C G . . A . V S . A A C G A . G A A I S W L N . G . . .
UniRef100_A0A416S2B0 K M . . I R A V A . . L S D L L T I Y Q R Q F I G R L S A Y C G . . A . V N . A G C A S . A A G I A Y L E . G . . .
UniRef100_A0A416VY79 E L . . I R A L T . . L S H L T V I Y I K Q S L G R L S A L C G . . C . V V . A A T G S . S C G I T Y L M G . G T . .
UniRef100_A0A416ZGX8 R L . . T R A L A . . L A D L V A I H T K S Y I G A L S A F C G . . V . V C . A A C G A . G A A I C W M R . G . . .
UniRef100_A0A417NH30 E L . . Y R A L L . . V S N L V T L H Q K T G I G R L S A Y C G . . A . V S . A G A G A . G A G I A F L C . G . . .
UniRef100_A0A418MG11 I L . . L R A L A . . L G H L V N I V V K G Y T G K L A A V C G . . S G I A . A G V G A . G V G L A W G Y G . G N D . .
UniRef100_A0A419T1W2 E L . . Y R A L C . . I S N L T A Q D Q K Q Y I G P L S A Y C G . . V . V C . A A A S A . G A A I T Y L Y . G . . .
UniRef100_A0A419TA55 K L . . I R A L A . . L S N L M T I Y I K T Y L G R L S A L C G . . V . V V . A S I G S . S C G I T Y L L G . G K . .
UniRef100_A0A420E9F4 E Q . . L R A L C . . M S Q L M A I Y I K Q Q O P A L S A L C A . . A . N T . A A I G S . G A A I T W L L G . G D . .
UniRef100_A0A420YXY9 E T . . T R A L M . . M S S L M V V V V K Q L L G R L S C L C G . . M . V V . S G I G T . S A A L V Y L L G . G N . .
UniRef100_A0A425VU58 E L . . A R A L A . . F G H L V N S Y I N A V V G K L S A V C T . . C A T A . A S T A A . S A A L V K L W G . G S . .
UniRef100_A0A425VYX7 E L . . V R A V V . . L S D L T A V H V K Y F I G E L S A F C G . . A . V S . A S C G A . G A G I C M L R . G . . .
UniRef100_A0A425WC06 E M . . L R A V A . . L S D L T A I H A K R F I G E L S A F C G . . V . T T . A A T G A . G A A I C Y L R . G . . .
UniRef100_A0A425XYU1 T M . . L R A L G . . L G L V L S I H M K S F V G Q L S A L C G . . V . I L . S T S G A . A C G I T Y M M G . G E . .
UniRef100_A0A427URN7 R L . . A R A L M . . L S H L S A I Y I H Y Q L P R L S A L C A . . A . T T . A A M G A . A A G M A W L A E . G . . .
UniRef100_A0A428LKM1 R L . . A R A L M . . L S H L T A I Y I H Y Q L P R L S A L C A . . A . T T . A G M G S . A A G M A W L L G . G D . .
UniRef100_A0A430A0E4 Q L . . I R A L C . . L S H L T A L Y I H S F L P V L S A Y C A . . T . N S . A A M G S . A A G I C Y L M N . G D . .
UniRef100_A0A431I1N7 E L . . Y R A L F . . F S H L A T V H I K S R I G R L S A Y C G . . P . M C . A A G V . A G A I G L I N . D . . .
UniRef100_A0A431IVU9 I M . . Y R G L I . . F S I L A S V H I K A N I G R L S A Y C G . . P . M C . A S G A V . A G A I F I N . D . . .
UniRef100_A0A431WCD8 L L . . A R A L I . . M S H L G A I Y I K S H Y P P L S A F C G . . N . T V . T S A A A . A M A M V Y L A G . G S . .
UniRef100_A0A437S6P3 K F . . Y R A L M . . F S N L I S Y L K Q N I G K L S A Y C G . . V . V S . A A A A S . V I G I F M E . D . . .
UniRef100_A0A443YTF2 A V . . L E A I A . . L S H I V T A F V K A H T G R L S A I C G . . C S V A . A G A G A . T A G I T F L L G . G D . .
UniRef100_A0A444JRK2 T T . . A R A L M . . M S H L M A I Y I K S Y Q N K L S A L C G . . A . T T . A S M G A . V A G M T W L L G . G R . .
UniRef100_A0A448TTT4 Q L . . A R A L I . . I S H L G A I Y I K S F Y P P L S A F C G . . N . T V . T G A A T . A A M V Y L A N . G S . .
UniRef100_A0A482PTU1 K L . . A R A L M . . L S H L S A I Y I H H Q L P R L S A L C A . . A . T T . A A M G A . A A G M A W L V D . G R . .
UniRef100_A0A484HIQ5 T L . . L R A L V . . V S N L V A I H L K T S I G R L S A Y C G . . A . V S . A G A G A . G A G I A W L H . G . . .
UniRef100_A0A486KPW8 T L . . A R A L S . . L S H L T A I S I H S R Y T R L S A L C A . . A . S T . A A M G A . A A G M A W L F T . R D . .
UniRef100_A0A486X8W4 Q L . . T R A L F . . L S H L M A I Y I H S K L P K L S A L C A . . A . T T . A A M G S . C A G I A W L L T . G K . .
UniRef100_A0A491FMQ0 R L . . A K A L A . . I S H L V T G Y I K N Y T G R L S A Y C G . . C G V A . A S T G A . T A G I S W L M N . G T E . .
UniRef100_A0A495RET5 T L . . A R A L V . . L S H A I A I Y I H S K F P P L S A L C A . . A . S T . A S M G A . A A G M V Y L L D N H N . .
UniRef100_A0A496NC54 K L . . Y R A L V . . L S N L T A I H Q K T G I G T L S A Y C G . . V . V S . A G A G S . G A G I A Y L C . G . . .
UniRef100_A0A497KJ80 E L . . A E A L A . . L S H L V T R Y I K V Y T G L T P I C G . . C A V A . A G A G A . T A A I T K L A G . G T . .
UniRef100_A0A497QP83 L L . . Y R A V L . . F S H L V N H P C A I N L G L L S P L C G . . T . I T K A M G A . A S G I I Y L M G . G T L . .
UniRef100_A0A498R6S7 E I . . V R A V T . . L S H L V T I Y I K L K F G R L S A L C G . . A . A I . A G M G A . S C G I V Y L L G . G G L . .
UniRef100_A0A498R9H5 R L . . T R A L L . . L S H M M A I Y I H G K L P K L S A L C A . . V . S T . A A M G A . A A G M A W L L R . Q D . .
UniRef100_A0A498RDK6 T L . . Y R A L V . . L T N L L S I H Q K R Y I G N L S A Y C G . . A . V S . A G A A A . A C G I A Y L H . G . . .
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UniRef100_C2L0Q0 KM . . YRALI . . VSNLVS . . VYIK H YIG ALSAF . . CG . . A . . VS . . ASCGA . . GAGIT . . TYLC . . G
UniRef100_C2MA54 ET . . VRALM . . LSNLMV . . IYIK Q KL . . G RLSAL . . CG . . C . . VV . . ASTGA . . ACGLT . . TYLLG . . GN
UniRef100_C5BAM6 EL . . ARALA . . LSHLVA . . ISTH A RYT RLSAL . . CA . . A . . ST . . AAMGS . . AAGMA . . WLF . . TS . . HS
UniRef100_C6BST6 LL . . IRALI . . LSHLSA . . VHMK S HL . . G KLSAL . . CG . . A . . SL . . AATAS . . CGGIV . . LLLG . . GG
UniRef100_C6L8Z4 KM . . YRALV . . VSNLVA . . IHQK K YIG SLSAY . . CG . . A . . VS . . AACGA . . GAAIT . . WMMH . . G
UniRef100_C6LJG2 RM . . YRALA . . LSCLV . . TIVH . . VK Q FIG KLSPL . . CG . . GCM . . GSSGA . . CCAFV . . VYLG . . GA
UniRef100_C6Q223 QL . . LRATA . . LSYLV . . CMIY . . K E YSG KLSAF . . CG . . CA . . IA . . AGSGM . . ACALV . . VYLRG . . GTV
UniRef100_C6Q2H5 KI . . VRAVS . . LSHLVT . . VYIK S YTG ALSPV . . CG . . GVA . . AGVGA . . AAGLT . . TYLWG . . GS
UniRef100_C9KVL1 EL . . IRALM . . LSHLTV . . IYIK Q SLG RLSAL . . CG . . C . . VV . . AATGS . . SCGIT . . TWLMG . . GN
UniRef100_C9LDF2 EL . . TRALT . . LSHLTA . . IYIK M RL . . G ALSAL . . CG . . C . . VV . . AATGS . . SCGIT . . TYLMG . . GE
UniRef100_C9M8S4 EI . . ARAIA . . YSHLAT . . SFIK S RMG RLSPV . . CG . . CAVA . . AGAGA . . AAGIV . . NIMG . . GT
UniRef100_C9MTE5 EL . . IRLAT . . LSHLTA . . IYIK Q SLG ALSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GD
UniRef100_C9PWI1 EL . . IRALI . . ISNLT . . AIYK Q HLG TLSAL . . CG . . C . . VV . . ASTGS . . SCGIT . . TYLMG . . GT
UniRef100_D1B8Y5 QV . . ARALA . . LSHLST . . SFIK R RL . . G RLSPV . . CG . . CSVA . . AGAGA . . AAGM . . CLLMG . . GG
UniRef100_D1PPN9 RL . . YRALA . . FSGLLT . . VHQK E YIG KLSAF . . CG . . AVS . . ASCAA . . GAAIT . . TYLD . . G
UniRef100_D1PU19 EL . . IRLAT . . LSHLTA . . IYIK Q NLG KLSAL . . CG . . C . . VV . . ASTGS . . SCGIT . . TYLMG . . GN
UniRef100_D1VYW2 EL . . IRLAT . . LSHLTV . . IYIK Q SLG KLSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GD
UniRef100_D1Y6A7 EI . . ARAVA . . YSHLAT . . SFIK S RMG RLSPV . . CG . . CAVA . . AGAGA . . AAGIV . . NVMG . . GT
UniRef100_D2MF51 RL . . IRLAL . . VSNLVA . . LHIK R YIG RLSAF . . CG . . V . . TS . . AGVAA . . GAAL . . AYLE . . N
UniRef100_D2RIV4 KL . . YRALV . . LSNLIA . . IHEK T GIG RLSAY . . CG . . A . . VS . . AGCAA . . GCGIA . . YLH . . G
UniRef100_D2Z6R2 ET . . AEAIA . . FSHLST . . IYIK S RMG RLSPV . . CG . . CAVA . . AGAGA . . ASGIV . . RLLG . . GS
UniRef100_D3HWC7 EL . . IRLAT . . LSHLTA . . IYIK Q SLG ALSAL . . CG . . C . . VV . . AGIGS . . SCGIT . . TYLMG . . GD
UniRef100_D3IDC4 EL . . VRALI . . LSHLTA . . IYIK Q SLG KLSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GD
UniRef100_D3LTV6 ER . . LRAVT . . LSHMT . . AIYAH A FL . . P KLSAL . . CA . . A . . LT . . ACVGA . . AAGM . . AWLLA . . AQ
UniRef100_D3PCE0 EV . . YKAIA . . LSHIVT . . AIYK S FTG RLSAY . . CG . . CSA . . IA . . AGAGA . . AAGIA . . YLLG . . GN
UniRef100_D3S649 RL . . IKSIT . . LSHALT . . TIYSA Y YSS YISAM . . CG . . C . . VNR . . GGI . . GA . . VSG . . LSY . . YIF . . G
UniRef100_D3UGV7 L . . NRALF . . LSHLTA . . IYIH S KLP KLSAL . . CA . . V . . TT . . AGIGS . . YAGI . . AWLFT . . QN
UniRef100_D4CJP0 KL . . LRAL . . LSNLT . . AIYK H EIG RLSAY . . CG . . V . . VN . . AAA . . GA . . GAGIS . . YLR . . G
UniRef100_D4CJV0 KR . . FRALI . . ISNLSV . . IYIK H FIG ALSAF . . CG . . A . . VS . . ASCGA . . GAGIT . . YLS . . G
UniRef100_D5EC14 ET . . ARAIA . . LSHLTT . . SFIK S RMG RLSPV . . CG . . CSA . . VA . . AGAGA . . AAGM . . TFLS . . GD
UniRef100_D5EER4 ET . . SRALS . . IALLI . . IGVIK T RTG ILTPH . . CG . . CSA . . VA . . AGAGA . . ASGIA . . YMLG . . GKE
UniRef100_D5ES46 EL . . LRALM . . LSHLTA . . IYIK Q SLG KLSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GD
UniRef100_D6GQL7 KL . . YRALI . . FANLTI . . VYQK K GIG RLSAY . . CG . . V . . VC . . AASAG . . VAGV . . AFLN . . N
UniRef100_D7NED5 EL . . IRLAM . . LSHLTA . . IYIK Q SLG KLSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GS
UniRef100_D8DSZ7 ET . . IRLGM . . LSHLTA . . IYIK Q SLG KLSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GD
UniRef100_D8GIX4 IL . . YRALV . . LTNLSI . . LHIK R YIG NLSAY . . CG . . A . . VS . . AGTAA . . ACGIA . . YL . . G
UniRef100_D9R3W3 KM . . YRALA . . LSNLAA . . IHQK T PIG RLSAY . . CG . . A . . VN . . AGAGA . . GAGIA . . YLC . . G
UniRef100_E0NUQ4 EL . . IRALI . . LSNLT . . AIYK Q HLG TLSAL . . CG . . C . . VV . . ASTGS . . SVGI . . TYLMG . . GT
UniRef100_E0QK30 KM . . LRALF . . LAHLIN . . KYVK V YSG KLSGM . . CG . . CA . . IG . . AGV . . G . . V . . CAGM . . TYMLD . . GTN
UniRef100_E1QWD0 TL . . VRAVV . . LSDLT . . AVHK Y FIG EL . . SAF . . CG . . A . . VS . . AGCGA . . GGCI . . CYLR . . G
UniRef100_E1R8R6 HL . . NRALA . . LSHLTT . . IHMK S SLG RLSAL . . CG . . A . . TL . . AATGA . . ACGFV . . YLLG . . GG
UniRef100_E2SLD3 QL . . FRALL . . ISNLS . . TLYQ . . K K FIG RLSAY . . CG . . A . . VS . . AGAGA . . GAGIA . . YLL . . G
UniRef100_E2ZB81 DH . . IRALA . . LSHIT . . AIYH A FYP KLSGL . . CA . . T . . AT . . AAMGS . . AAGM . . TLLFD . . GS
UniRef100_E3C6S8 QL . . IRLAT . . LSHLTI . . IYIH S FL . . P SLTAY . . CA . . T . . HS . . AAMGA . . ATGI . . CYLAG . . GT
UniRef100_E3CW32 DI . . ARALG . . ASHLAT . . SFIK R RL . . G RLSPV . . CG . . CAVA . . AGAGA . . AAGI . . TALLD . . GT
UniRef100_E3CYF9 DL . . ARALA . . LGLLV . . GSIK A QTG ILTPH . . CG . . CAVA . . AGCGA . . AAGL . . VLLRR . . GTA
UniRef100_E3H8R8 KM . . IRLAF . . LSHALT . . IHK T NVG RLSAY . . CG . . A . . VC . . AAGV . . SGAL . . FLE . . N
UniRef100_E4RJW4 EI . . FKATM . . LAHLV . . GHYAK I YIG RLSSL . . CG . . L . . FYA . . AAPGV . . LAALL . . LYL . . A . . DKS
UniRef100_E6VST2 TV . . LEAIA . . LSHMVT . . AFIK A HTG RLSAT . . CG . . CSA . . VA . . AGAGA . . TAGI . . TYLLG . . GD
UniRef100_E7G7U8 QL . . YRALI . . ISNLC . . TIHQ . . K T GIG RLSAY . . CG . . A . . VS . . AGV . . GA . . GCI . . AYLK . . G
UniRef100_E7NTW9 KL . . LRAL . . VSNLIA . . IHQK T KIG RLSAY . . CG . . A . . VS . . AGCGS . . GAAIT . . YMN . . G
UniRef100_E7RMC4 EL . . IRLAT . . LSHLTA . . IYIK Q SLG KLSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GD
UniRef100_E8LDS6 KM . . LRAVL . . LSDLT . . VTYL . . K Q GIG KLSAY . . CG . . A . . IS . . AGCGA . . GAAI . . AF . . LY . . D
UniRef100_F0F417 EL . . IRLAV . . LSHLTA . . IYIK Q SLG ALSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GD
UniRef100_F0JCR0 AV . . LEAVA . . LSHIVT . . AFIK A HTG RLSAT . . CG . . CSA . . VA . . AGAGA . . TAGI . . TYLLG . . GD
UniRef100_F0RYC8 KL . . GRALL . . LSQLI . . GLALT A KKN RLSAL . . CG . . A . . FT . . AAI . . GT . . A . . CGLV . . FYLLD . . GT
UniRef100_F0TBF8 TL . . IRAVA . . LSNLTI . . IYIK S SLG RLSAL . . CG . . A . . TV . . ASAGS . . CCGI . . TYLMG . . GNN
UniRef100_F2LVU2 KT . . TKAVM . . LSCFI . . TSLT . . I R KFG FVSTC . . CG . . V . . VHA . . AAVGV . . IGGIL . . YL . . K . . R
UniRef100_F2NA26 AL . . LRALC . . VSNLIA . . QDQK S YIG ALSAY . . CG . . V . . VC . . AAA . . GA . . GAAI . . TYLA . . G
UniRef100_F3AAY4 LL . . IRLAV . . VSNLVS . . IHLK T GIG TLSAY . . CG . . A . . IS . . AGCGA . . GAGIT . . YLY . . G
UniRef100_F3BA59 KL . . YRALA . . LSNLVT . . IHQK S GIG RLSAY . . CG . . A . . IS . . AGAGA . . GAGIA . . YLL . . G
UniRef100_F3PR02 EL . . IRLAM . . LSHLTV . . IYIK Q SLG RLSAL . . CG . . C . . VV . . AATGS . . SCGIT . . TWLMG . . GT
UniRef100_F3QUJ3 EL . . IRLAM . . LSHLTA . . IYIK Q SLG VLSAL . . CG . . C . . VV . . ASTGS . . SCGIT . . TYLMG . . GK
UniRef100_F4GH11 KL . . IRALA . . CGNLIA . . LHLR L PMG GLSAF . . CG . . V . . VC . . AACGA . . GAGIT . . TYLR . . G
UniRef100_F4GJT0 RL . . LRALV . . LSNLIV . . IHLK R GIG RLSAY . . CG . . V . . VC . . AATGS . . GCALT . . TYLD . . G
UniRef100_F4LLB6 KL . . LRLAT . . LSNLTA . . IHVK T PIG RLSAY . . CG . . A . . VN . . AGAGA . . GAGIA . . YLS . . G
UniRef100_F4LUK2 NI . . IRAVT . . LSLLV . . TVYK S YTG TLPSP . . CG . . GVA . . AGVGA . . SAGIA . . YILG . . GS
UniRef100_F4LUS7 KM . . YRGLV . . LSNLTI . . IHLR S AMG RLSAY . . CG . . A . . VC . . AACGS . . GAGIT . . TYLA . . G
UniRef100_F4XCZ3 KL . . LRALV . . AANLI . . SIHQ . . K S YIG SLSAY . . CG . . V . . VS . . AACGA . . ACGI . . CYLL . . D
UniRef100_F5T7C5 KM . . YRALV . . LSNLVA . . IHQK T PIG RLSAY . . CG . . V . . VN . . AGVGA . . GCGIT . . TYLK . . G
UniRef100_F6DRL7 KM . . IRAVA . . LSHLTI . . IYIK L HTG NLSAL . . CG . . CAVA . . AATGA . . SAAIT . . TWLLG . . GK
UniRef100_F7JQN6 QL . . YRALV . . IGNLIA . . IHLK T GIG CLSAY . . CG . . A . . TS . . AGCGA . . AAGI . . TYLY . . G
UniRef100_F7NEK3 RL . . IRAIA . . LSHVIT . . VYIK I HTG NLSAL . . CG . . CAVA . . AATGA . . SAAI . . AWLLD . . GD
UniRef100_F7NFD1 KL . . YRALV . . VSNLIA . . IHQK K YIG SLSAY . . CG . . V . . VS . . AACGS . . GAGIA . . YLL . . D
UniRef100_F7Q0I2 QL . . MRALI . . LSDLIA . . VHVK T NLG RLSAF . . CG . . V . . VI . . AGTGA . . AAGI . . SF . . LD . . G
UniRef100_F7UVX8 QL . . LRALV . . LSNLVA . . IHQK T GIG RLSAF . . CG . . A . . VC . . AGAAA . . GAGIA . . YLD . . G
UniRef100_F8N6M6 EL . . IRLAT . . LSHLTA . . IYIK Q SLG TLSAL . . CG . . C . . VV . . ASTGA . . SCGIV . . YLMG . . GD
UniRef100_F9MQQ2 ER . . LRAMV . . LSHVTA . . IYAH A FL . . P KLSAL . . CA . . A . . MT . . ACIGA . . AVGM . . AWLLS . . KK
UniRef100_F9N6H6 HT . . LRSAL . . LANVLA . . LIYK Q YIG RLSAY . . CG . . V . . VS . . AASAT . . AAGV . . AFLN . . N
UniRef100_F9R9Y5 TM . . IRLAM . . LSHLMA . . IYIK S HQN KLSAL . . CG . . A . . TT . . ASMGA . . VAGM . . TWLLG . . GQ
UniRef100_F9TAG3 KT . . CRALV . . MSHLGA . . IYMK S FYP PLSAF . . CG . . N . . TV . . TSSAT . . AMAM . . VYLAG . . GT
UniRef100_F9Z2U9 QL . . IRALA . . LSNLVA . . AHIK Y YMG HLSAL . . CG . . I . . LI . . AGTGA . . ASAI . . TYLMG . . GT
UniRef100_G0H2U2 KL . . IKSIL . . LSVLVT . . IYAT Y KSS YLSM . . CG . . C . . VSK . . GGM . . T . . VIGL . . CYKN . . GK
UniRef100_G0V3L8 KL . . ARAIA . . IRLHTI . . YHIK T HLG RLSPV . . CG . . GVA . . AGIGA . . SCAIT . . TYLLG . . GA
UniRef100_G1UT72 EL . . ARAIA . . MSHLAS . . IHIK H HLG RLSAH . . CG . . A . . MV . . AGTAA . . ACGI . . AMLLG . . GG
UniRef100_G1UU44 KL . . IRALA . . LSHLVT . . IAIK E FSG PLSPV . . CG . . CA . . IA . . AGVGA . . AVSVA . . WLLG . . CDD
UniRef100_G1WEE9 EL . . TRALI . . LSHLTA . . IYIK Q SLG KLSAL . . CG . . C . . VV . . ASIGS . . SCGIT . . TYLMG . . GN
UniRef100_G1WJX7 RT . . LRALA . . LADLVA . . IHTK S YIG ALSAF . . CG . . V . . VC . . AACGA . . GAAI . . AWMR . . G
UniRef100_G2FU11 QL . . IRAVT . . LSNLIA . . IHIK S KMG RLSAL . . CG . . A . . IA . . SGTGA . . SCGIT . . TYLLG . . GKG
UniRef100_G4D522 EL . . YRALV . . FANLIG . . LYLK Q GIG KLSAY . . CG . . V . . VS . . ASASV . . VCGI . . YLYN . . N
UniRef100_G4KPR6 RM . . FKAVT . . LSNLMA . . IHIK A DFG LLSGL . . CG . . A . . TI . . AATGA . . ACGI . . VYLG . . GSV
UniRef100_G4L141 KL . . LRALV . . VANLIA . . IHQK S YIG SLSAY . . CG . . V . . VS . . AACGA . . ACGI . . CYML . . G
UniRef100_G4Q4Z6 AL . . LRSIC . . LSYLV . . CMIY . . K E YSG KLSAF . . CG . . CA . . IA . . AGTGA . . ACGI . . VYLMG . . GGH
UniRef100_G5GAJ6 EM . . IRLAM . . LSHLTV . . IYIK E HLG TLSAL . . CG . . C . . VV . . AATGS . . SCGIT . . TYLMG . . GN
UniRef100_G5HEI2 EL . . YRALV . . LSNLLG . . LHIK A GIG RLSAY . . CG . . A . . VS . . AGCAA . . GAGIA . . YML . . H
UniRef100_G5IAK3 KL . . YRALA . . LSNLTT . . THQK T LIG RLSAY . . CG . . A . . VS . . AGAGA . . GAGIA . . YLC . . G
UniRef100_G7WDA6 KL . . FRALI . . ISNLSA . . IHQK A QIG KLSAY . . CG . . A . . VS . . AAGS . . GAGIA . . YLN . . G
UniRef100_G7WJK3 QL . . IRAVT . . LSNLIA . . IYIK L KIG RLSAL . . CG . . A . . TA . . SGTGA . . SCGIA . . YLLD . . GGI
UniRef100_G8QSL3 KL . . AKALV . . VSELV . . GLSL . . T A RKD RLSAL . . CG . . A . . FT . . AAI . . GC . . ACGI . . VYLLD . . GD
UniRef100_G8QX01 CK . . YRALV . . LSNLIA . . IYQK T NLG KLSAY . . CG . . A . . VS . . ASAGS . . GAGIA . . YLH . . K
UniRef100_G8QX20 TV . . LKALA . . IANLVA . . IHQK Q YIG DLSAY . . CG . . V . . VC . . AATGS . . ASGVA . . YML . . G
UniRef100_G8QXHO EL . . LRALA . . LSNLSM . . QEK N QLG SLSAF . . CG . . A . . VC . . AGTAA . . CCGIA . . YLH . . G
UniRef100_G9WPW8 KL . . YRSIL . . VSNLVS . . VYIK H YIG ALSAF . . CG . . A . . VS . . ASCGA . . GAGIT . . YMC . . G

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|------------------|------------|-------|-------------|------------|-----|---------------|-----|----|-------|-------|-------|--------|
| UniRef100_G9YIV9 |KH..I | RALT | LSHITAIYIH |S.... | FYP |KLSALCA | ..T | AT | AAMGA | AVGM | TLIFD | GG.. |
| UniRef100_H0U7D0 |QM..I | RAVT | FSHLLAIWIK |S.... | KFG |RLSALCG | ..V | TV | AGASA | AAAI | TYLLG | GNL.. |
| UniRef100_H0UNL1 |QI..A | ARALA | LSHLSSTFVK |R.... | RLG |RLSPVCG | ..C | SV | AGAGA | AAGM | CLLLG | GD.. |
| UniRef100_H1DGB7 |QL..A | ARALA | LSNLIAAHIT |Y.... | YLG |HLSALCG | ..I | LT | AGTGS | ASAI | TYLMG | GN.. |
| UniRef100_H1HSG3 |KL..Y | RALL | VSNLVSIIYIK |H.... | FIG |PLSAFCG | ..A | VS | AACGA | GAAI | TYMA | G.... |
| UniRef100_H1HTE4 |RM..L | RALI | VSNLVSIIYIK |H.... | YIG |ALSAFCG | ..A | VS | ASCAG | GAGIS | FLC | G.... |
| UniRef100_H1Q0Q2 |EL..I | RALT | LSHLTAIYIK |Q.... | SLG |TLSALCG | ..C | VV | ASIGS | SCGI | TYLMG | GD.. |
| UniRef100_H3KEV9 |EL..L | RAVL | LSDLVTIALK |Q.... | GIG |KLSAYCG | ..A | VS | AGCGA | GAGI | AMLK | G.... |
| UniRef100_H5XWU0 |KL..F | RAVA | LADLITIHQK |T.... | SVG |RLSAFCG | ..A | VS | AGCAA | GAGI | AYLC | ..N... |
| UniRef100_H9UDX8 |KK..E | KAIL | LSILVTIYIK |A.... | YTG |MLTPICG | ..A | GS | ASAGA | AAGI | VYLLK | GT.. |
| UniRef100_I2BBH1 |RL..A | ARALM | LSHLSAIYIH |Y.... | QLP |RLSALCA | ..A | TT | AAMGA | AAGM | AWLMD | GR.. |
| UniRef100_I4BXX4 |ET..A | ATAVA | LSHLTTSTFLK |S.... | RTG |RLSPICG | ..C | TV | AGAGA | AAGI | TYLLS | KD.. |
| UniRef100_I4C9A0 |KL..L | RALA | LSIIITIVYCK |S.... | FTG |TLLSPMCG | ..C | AI | AGVGT | SAGV | AYLLG | GD.. |
| UniRef100_I4DB99 |PL..I | RAVT | LSNLIATYIK |T.... | KIG |RLSALCG | ..A | TA | SGTGA | SCGI | TYLLG | GGK.. |
| UniRef100_I4Z7Z1 |EL..T | RALA | LSHLTVIYIK |Q.... | SLG |RLSALCG | ..C | VV | ASIGS | SCGI | TYLMG | GN.. |
| UniRef100_I8TRS2 |TL..T | RALV | LTNLLSLHQQ |R.... | YIG |NLSAYCG | ..A | VS | AGASA | ACGI | AYLN | G.... |
| UniRef100_I9DKN7 |TL..I | RALM | LSHMMATYIH |D.... | KLP |KLSALCA | ..V | TT | ASMGA | AAGM | SWLLK | GD.. |
| UniRef100_I9LEV3 |TL..T | RALM | LSHMMATYIH |D.... | KLP |KLSALCA | ..V | TT | ASMGS | AAGM | AWLLK | GD.. |
| UniRef100_I9NNL2 |SL..I | RALM | LSHMMATYIH |D.... | KLP |KLSALCA | ..V | TT | ASMGA | AAGM | AWLLK | ED.. |
| UniRef100_J5W633 |KM..L | RAIF | LANAVNKYVK |L.... | YSG |KLSGMCG | ..C | AI | AGVGT | CAGM | TYMLG | GNN.. |
| UniRef100_J7IVN5 |QI..I | RAVT | LSNLIATYIK |T.... | KIG |RLSALCG | ..A | TA | SATGA | SCGI | AYLLG | GGK.. |
| UniRef100_J9GDW5 |EL..I | RALM | LSHLTVIYIK |Q.... | SLG |RLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GG.. |
| UniRef100_K0G6A3 |QL..T | RALF | LSHLMATYIH |S.... | KLP |KLSALCA | ..V | TT | AAMGS | CAGV | AWLLT | GK.. |
| UniRef100_K2APZ2 |II..I | EEAVA | LSHLINAYAK |V.... | FTG |KLAPVCG | ..C | SV | AGLGA | AAAI | TYMHD | KS.. |
| UniRef100_K4LJ29 |RK..V | RGLV | FSNLLTLYAK |E.... | FIG |RLGGACG | ..A | AI | AGIVG | AAAT | WMMLG | GGD.. |
| UniRef100_K6E323 |KM..I | RAVA | LSHLITIHQK |S.... | RFG |RLSALCG | ..V | TA | AGMGA | SGAI | VYLLD | GGL.. |
| UniRef100_K8W9S4 |QL..A | ARALM | LSHLMATYIH |N.... | QLP |ALSALCA | ..A | TT | AAMGA | AAGI | AWLLD | AR.. |
| UniRef100_K8WJ1 |QL..A | ARALM | LSHLMATYIH |N.... | QLP |ALSALCA | ..A | TT | AAMGA | AAGI | AWLLB | PR.. |
| UniRef100_L0RBQ4 |TL..L | LEAIA | LSHLITVYVK |A.... | QTG |RLSAVCG | ..C | SV | AGAGA | TAGV | TYMLG | GT.. |
| UniRef100_L1NAI7 |TT..T | TRAIM | LSLLVTVYIK |Q.... | QLG |RLSCLCG | ..M | VV | SGIGT | ACAL | VYLLG | GT.. |
| UniRef100_M1E6N6 |EV..I | RAVT | LSHLLTSVVK |S.... | YTG |VLSPLCG | ..C | GI | AGVGC | SAGLT | FLFRE | KN.. |
| UniRef100_M1PWB2 |KL..Y | RSLV | VSNLVTMYIK |S.... | YLG |VLSAMCG | ..A | VA | AGTGS | SIGI | TYMLG | GD.. |
| UniRef100_M4U7A2 |KL..A | RALI | LSHLGATYIK |S.... | HYF |PLSAFCG | ..N | SA | TSSAA | SMAM | VYLMG | GS.. |
| UniRef100_M4UMF1 |EL..A | RALI | LSHLSAIYIK |S.... | YYP |PLSAFCG | ..N | TA | TSSAA | AMAM | VYLMG | GD.. |
| UniRef100_N1ZBI4 |KL..Y | RALI | LSNLIATYIK |T.... | GIG |YLSAYCG | ..A | VS | AGAAA | GAGI | AYLK | G.... |
| UniRef100_N2BUJ8 |KL..I | RAVA | MSDLVAVHVK |H.... | YIG |ELSAFCG | ..A | VS | AACGA | GAAI | TYLR | G.... |
| UniRef100_Q0W4W4 |KL..L | KALA | ISSTVTVAIK |E.... | HST |KLSAFCG | ..C | VA | ASTGV | AAGT | VYLLG | GSY.. |
| UniRef100_Q6AQQ3 |SV..L | RAIG | LSHIIATYIK |A.... | HTG |RLSAVCG | ..C | SV | AGAGA | TAGI | TYLVG | GD.. |
| UniRef100_R5ACV9 |KL..L | RAEF | MGMMLIMYMK |K.... | YVG |RLSPVCG | ..A | ML | AGTGS | AAGM | AYMMG | GTV.. |
| UniRef100_R5BH02 |RL..A | RALI | LSNLMATYIK |G.... | YLG |KLSALCG | ..C | VT | ASTGS | ACGI | VFLRG | GS.. |
| UniRef100_R5BSN7 |QL..I | RALT | LSHLTAIYIK |Q.... | SLG |RLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GG.. |
| UniRef100_R5CBC5 |ET..I | RALI | LSNLTATYIK |Q.... | HLG |ALSALCG | ..C | VV | ASTGS | SCGI | TYLMG | GN.. |
| UniRef100_R5D1I4 |RL..L | RALV | VSNLITIHQK |T.... | PIG |RLSAFCG | ..A | VS | AGCGA | AAGV | AWLLI | D.... |
| UniRef100_R5D3N9 |EL..L | RALA | VANLVTIHLK |T.... | GIG |RLSAYCG | ..A | VS | AGCGA | AAAG | LAYLQ | G.... |
| UniRef100_R5DGG3 |QT..A | ATALA | ISSMITIYIK |A.... | HIK |RMTAFCG | ..C | GV | AATGM | TAAV | SYLLG | GSY.. |
| UniRef100_R5GEI3 |EM..I | RALM | LSHLTAIYIK |Q.... | HLG |TLSALCG | ..C | VV | ASTGS | SCGI | TYLMG | GG.. |
| UniRef100_R5GWZ7 |AL..Y | RSLA | LSILVTIHVK |H.... | YIG |RLSVLCG | ..C | SV | SSIGV | CAAM | IFLGD | GS.. |
| UniRef100_R5IAL6 |QL..I | RALT | LSHLTVIYIK |Q.... | SLG |YLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GD.. |
| UniRef100_R5IHT1 |KM..Y | RALA | LSNLMATYIK |T.... | PIG |RLSAYCG | ..A | VS | AGAGA | GAGI | AYLC | G.... |
| UniRef100_R5IJT6 |TL..Y | RALA | VSNLSTIHQK |A.... | HIG |TLSAYCG | ..A | VS | AGCGA | GAGI | TYLY | G.... |
| UniRef100_R5LQS8 |ET..I | RALI | LSNLTATYIK |Q.... | HLG |SLSALCG | ..C | VV | ASTGS | SCGI | TYLMG | GS.. |
| UniRef100_R5LUG8 |KL..Y | RALL | VSDLTITLHQQ |T.... | GIG |RLSAYCG | ..A | VS | AGAGA | GAGI | AYLA | G.... |
| UniRef100_R5M5F0 |QL..L | RALA | VSNLIALHQQ |K.... | YIG |SLSAYCG | ..A | VS | AACGA | GAGI | AWMF | G.... |
| UniRef100_R5MFC7 |EL..T | RALI | LSHLTAIYIK |Q.... | SLG |RLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GG.. |
| UniRef100_R5QVY3 |DL..Y | RALV | VSNLSTLHQQ |E.... | GIG |RLSAYCG | ..A | VS | AGCGA | GAGI | AWLLI | G.... |
| UniRef100_R5R9I7 |NI..L | KATA | LSILVTIHTK |H.... | YLG |RLSVLCG | ..C | SV | AAIGV | VCGV | VRMLG | GS.. |
| UniRef100_R5TDG1 |KI..Y | RALA | VANLIAVHQQ |Y.... | YIG |SLSAYCG | ..A | VC | AAAAG | VSGI | AFLE | G.... |
| UniRef100_R5WS06 |KL..I | RALI | LSNLIATYIK |Y.... | RIG |RLSAYCG | ..A | VS | AAAAG | GAGI | TYLY | G.... |
| UniRef100_R6ACZ6 |EM..T | RALM | LSHLTAIYIK |Q.... | NLG |TLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GG.. |
| UniRef100_R6BEE9 |EL..I | RAVI | LSDLTITHQQ |S.... | KIG |RLSAFCG | ..A | IS | AGCGA | AAGI | AYLL | G.... |
| UniRef100_R6BNM8 |QM..M | RAVT | LSNLMGIIYIK |S.... | QFG |RLSAFCG | ..A | TV | AGIGS | SCGI | AYLLG | GGL.. |
| UniRef100_R6CEX6 |DQ..I | RALI | LSHLTVIYIK |Q.... | SLG |RLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GG.. |
| UniRef100_R6CRH6 |EL..L | RATA | LSFLICMYIK |E.... | YSG |KLSAFCG | ..C | AI | AGTGA | ACGL | AFLDG | AEK.. |
| UniRef100_R6DX46 |EL..I | RALT | LSHLTAIYIK |Q.... | SLG |KLSALCG | ..C | VV | ASIGS | SCGI | TYLMG | GD.. |
| UniRef100_R6ES56 |LL..Y | KALA | VSNLISIHQK |H.... | HIG |KISAFCG | ..A | VS | ASCAS | AAAV | AYLK | G.... |
| UniRef100_R6F8Q0 |EL..I | RALT | LSHLTAIYIK |Q.... | NLG |KLSALCG | ..C | VV | ASIGS | SCGI | TYLMG | GN.. |
| UniRef100_R6GFV4 |TL..Y | RALV | LSNLIATYIK |N.... | GIG |PLSAFCG | ..A | VC | AGCAS | GAAI | AYLL | G.... |
| UniRef100_R6IAL3 |KL..Y | RALA | LANLVTIHEK |T.... | PIG |VLSAFCG | ..A | VS | AGAGA | GAGI | AYLH | G.... |
| UniRef100_R6PJ67 |TL..Y | RALA | LSNLTITHQQ |T.... | GIG |RLSAYCG | ..A | VS | AGAGA | GAGI | AYLC | G.... |
| UniRef100_R6QZ08 |EL..I | RALM | LSHLTAIYIK |Q.... | SLG |KLSALCG | ..C | VV | ASIGS | SCGI | TYLMG | GD.. |
| UniRef100_R6RRH2 |KM..Y | RALA | LSNLTITHQQ |T.... | PIG |RLSAFCG | ..A | VS | AGAGA | GAGI | AYLN | G.... |
| UniRef100_R6SUK7 |KL..A | RALI | LSNLIATYIK |G.... | YLG |RLSALCG | ..C | VV | ASTGS | SCGL | VWIKG | GG.. |
| UniRef100_R6TKV7 |EL..L | RALA | VADLVTIHQK |T.... | GIG |RLSAFCG | ..A | VS | AGCGA | AAGV | AYLL | G.... |
| UniRef100_R6WIA0 |EL..Y | RALV | FSGLTTTYQK |M.... | FIG |KLSAFCG | ..A | VS | ASCAS | AAAI | TYLC | G.... |
| UniRef100_R6WIM5 |KL..L | RATA | LSYLVCMYIK |E.... | YSG |KLSAFCG | ..C | AI | AGTGM | ACAL | VYLRG | GTT.. |
| UniRef100_R6X2B6 |EL..I | RALT | LSHLTAIYIK |Q.... | SLG |RLSALCG | ..C | VV | ASIGS | SCGI | TYLMG | GS.. |
| UniRef100_R6XH18 |EL..I | RALM | LSHLTAIYIK |Q.... | SLG |KLSALCG | ..C | VV | ASIGS | SCGI | TYLMG | GD.. |
| UniRef100_R6XH36 |EL..I | RALV | MSNLTATYIK |Q.... | NLG |TLSALCG | ..C | VV | ASTGS | SCGI | TYLMG | GN.. |
| UniRef100_R6XLK2 |KT..Y | RALA | LSNLMATYIK |T.... | GIG |RLSAYCG | ..A | VS | AGAGA | GAGI | AYLC | G.... |
| UniRef100_R6YNU0 |EL..I | RALT | LSHLTVIYIK |Q.... | SLG |RLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GG.. |
| UniRef100_R6ZPY0 |RL..L | RALA | LSDLVAIHVK |S.... | YIG |ELSAFCG | ..A | VC | AACGA | GAGI | TYMWS | G.... |
| UniRef100_R7A8V9 |KT..Y | RALA | LSNLTATYIK |T.... | PIG |RLSAFCG | ..A | VS | AGAGA | GAGI | AYLC | G.... |
| UniRef100_R7CZU5 |EL..Y | RALA | LSHLTVIYIK |Q.... | SLG |RLSALCG | ..C | VV | AATGS | ACGI | TYLMG | GT.. |
| UniRef100_R7D3W1 |RL..Y | RAVM | LSDLIAVHVK |S.... | YIG |ALSAFCG | ..A | IC | AACGA | GAAI | TYLC | G.... |
| UniRef100_R7D3Y4 |KL..C | RSLV | VSNLIAIHQK |Y.... | YIG |SLSAYCG | ..A | VS | AACGA | GAGI | TYMY | G.... |
| UniRef100_R7DCY6 |EL..I | RALI | LSHLTVIYIK |Q.... | SLG |RLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GK.. |
| UniRef100_R7ECU3 |TM..Y | RALV | LSNLTITHQQ |E.... | GIG |RLSAYCG | ..A | VS | AGCGC | GAGI | AYLY | G.... |
| UniRef100_R7GDN4 |AM..L | RALI | VSDLTITLHQQ |K.... | EIG |RLSAFCG | ..A | TL | AAIGA | ACGI | CYLK | G.... |
| UniRef100_R7J033 |HT..I | RALT | LSHLTAIYIK |Q.... | SLG |RLSALCG | ..C | VV | AATGS | SAGI | CYLMG | GD.. |
| UniRef100_R7KN91 |KL..A | RALI | LSHLGATYIK |S.... | HYF |SLSAFCG | ..N | TA | TSSAV | AMAL | VYLLS | GT.. |
| UniRef100_R7LE14 |EM..T | RALM | LSHLTAIYIK |Q.... | NLG |TLSALCG | ..C | VV | AATGS | SCGI | TYLMG | GT.. |
| UniRef100_R7P9Q6 |EM..L | RALM | LSHLTAIVVK |Q.... | NLG |ALSALCG | ..C | VV | ASTGS | SCGI | TYLMG | GG.. |
| UniRef100_R9IHK8 |KL..Y | RSLI | FSSLLTIYQK |E.... | FIG |KLSAFCG | ..A | VS | ASCAS | AAAI | TYLE | N.... |
| UniRef100_R9KQV6 |TL..Y | RALA | VSNLVTIHLK |T.... | GIG |PLSAFCG | ..A | TS | AGCGA | AAGI | SYLF | G.... |
| UniRef100_R9LK03 |KL..Y | RALL | VSDLTITHQQ |S.... | GIG |RLSAYCG | ..A | VS | AGVGA | GAGI | AYLL | D.... |
| UniRef100_R9LSX6 |TM..Y | RALV | VSNLVALHQQ |R.... | GIG |RLSAFCG | ..A | VC | AACGS | GAGI | TYLH | G.... |
| UniRef100_R9MC34 |KM..Y | RALA | LSNLTATYIK |T.... | GIG |RLSAYCG | ..A | VS | AGAAA | GAGI | AYLM | G.... |
| UniRef100_R9MFU5 |LL..L | RATA | LSYLITMYIK |E.... | YSG |KLSAFCG | ..C | GI | AGCGM | ACGL | AFLLG | AKE.. |
| UniRef100_R9MHL4 |TM..L | RAVT | LSDLTITHQQ |T.... | GIG |RLSAYCG | ..A | VS | AGCGA | GAAI | AWLQ | G.... |
| UniRef100_R9MSX2 |VL..L | RATA | LSYLITMYIK |E.... | YSG |KLSAFCG | ..C | GI | AGTGM | ACGL | AYMRG | ADE.. |
| UniRef100_R9NAH4 |DI..I | KRAIA | FSHMITIYVK |S.... | YLG |ALSPVCG | ..C | VA | AGVGC | TAGLT | FLFRE | GT.. |
| UniRef100_R9NHG8 |KI..T | YRALL | LSNLTATYIK |A.... | GIG |TLSAYCG | ..A | VS | AGAAA | GAGI | AYLH | G.... |
| UniRef100_R9NLL3 |KT..Y | RALA | LSNLTATYIK |T.... | GIG |RLSAYCG | ..A | VS | AGAAA | GAGI | AYLC | G.... |

UniRef100_R9PQG9 AF . . VRALM . LSHLVAIYVK S KQN KLSALCA . A . TT . AAMGA . SAALTWLMG . GK . .
UniRef100_S2YDF7 EL . . LRALC . VSNLIAQDQK R YIG ALSAYCG . V . VC . AAAGA . GAAITYLC . G . . .
UniRef100_S3JMX3 KL . . I RALV . LANLIAALVYK Q YIG SLSAFCG . A . VC . AATGA . CGGITYLH . G . . .
UniRef100_S8F9Z3 EL . . I RALT . LSHLTVIYK Q SLG RLSALCG . C . VV . ASTGS . SCGITYLMG . GN . . .
UniRef100_U1Y408 EL . . S RALA . ISELVVCYHLK E YMG RLSPLCG . SGIA . GGTGA . CCGMTYLOQ . GT . . .
UniRef100_U2B5S0 KL . . YRALV . LSNLTAIHQK S GIG RLSAYCG . A . VS . AGCAA . GAGIAYLG . G . . .
UniRef100_U2BQN1 GL . . YRALV . AGNLIISLHOK K YIG SLSAYCG . A . VS . AACGS . GVGIAYML . G . . .
UniRef100_U2BR63 KM . . YRALV . LSNLIAIHQK T GIG PLSAYCG . A . VS . AGCAS . GAAIAYLN . G . . .
UniRef100_U2EG06 KL . . I RATT . LSHLTIYVVK S KFG RLSALCG . A . TI . AATGA . SCGIVYLLD . GDK . .
UniRef100_U2IN24 EL . . I RALT . LSHLTAIYIK Q SLG ALSALCG . C . VV . ASIGS . SCGITYLMG . GD . . .
UniRef100_U2IPU0 QT . . T RAIM . MSSLLVVIYK Q LLG RLSCLCG . M . VV . SGIGS . ACAVTYLMG . GT . . .
UniRef100_U2LC73 RR . . N RGLL . FGHLMNELVK V YSG KLSGMC . CAIG . SGIGA . VAGIWMVLG . GGI . .
UniRef100_U2SXB7 AL . . M RALA . VSDLTITIHQK T GIG RLSAFCG . A . VS . AGCGA . ACGIAYLD . G . . .
UniRef100_U2TE26 QL . . L RATA . LSFVLCMYIK E YSG KLSAFCG . CAIA . AGTGM . ACGLVLLRG . GST . .
UniRef100_U4KEH0 SL . . A RALI . MSHLGAIIYK S HYP PLSAFCG . N . TV . TSSAA . AMAMTYLAG . GT . . .
UniRef100_U5MNA1 KL . . Y RAVA . LSDLVTIHQK T GIG RLSAYCG . A . VS . AGAGS . GAGIAYLH . G . . .
UniRef100_U7UAT0 KI . . I RAVA . LSLFVLTIFAK C HIG RLSPVCA . CSA . ASLGV . AAGCFLCD . LEN . .
UniRef100_U7UUA7 TR . . L RALI . LASMTAIYIH G YLP KLSAFCA . T . VT . AAMGA . AAGMAWLLD . RE . .
UniRef100_U7UZ37 RL . . G RALF . FAHIINRIVVK E YSG KLSGIC . CAIG . AAVGA . SAAITWMLG . GTD . .
UniRef100_UPI0001A275D4 KL . . Y RALV . LGNLTITIHQK T GIG RLSAYCG . A . VS . AGCAA . GCGIAYLY . G . . .
UniRef100_UPI0001BACF7A KL . . A RALI . MSHLGAIIYK S HYP TLSAFCG . N . TA . TSSAA . AMAMTYLAG . GS . . .
UniRef100_UPI0002088B6F HL . . I RALM . LSHLMAIYIK S HQN KLSALCG . A . TT . ASMGA . VSGITWLLG . GN . . .
UniRef100_UPI000230D429 QL . . A RALI . MSHLGAIIYK S HYP PLSAFCG . N . TV . TSSAA . SMAMTYLAG . GS . . .
UniRef100_UPI00023278AC QL . . Y RALI . FANLLGLMYK Q GIG KLSAYCG . V . VS . ASSAS . VAGIAFLS . G . . .
UniRef100_UPI00024355AF AR . . A RPPG . LSRRRRLRP A GLP VLSAFCA . A . TT . AAMGA . AGICLVLD . GS . . .
UniRef100_UPI000283269A KM . . A RALM . LSHLLAIYIH H KFP ALSALCA . A . TT . ASMGA . AGAIAWLME . ER . . .
UniRef100_UPI000288D204 TL . . A RGLA . ISHLITYYIK S HLG RLSALCG . CGVA . ASIGA . SAAMTYMMG . GK . . .
UniRef100_UPI000289A50F TI . . T RALT . MSNLSIYMH S YLG RLSALCG . A . VL . AGASV . STALTFLG . GN . . .
UniRef100_UPI0002DD0778 KL . . Y RSLI . FANLLGLYIK E GIG ELSAYCG . V . VS . AASAS . VCGLAFLMR . D . . .
UniRef100_UPI0002E7D406 QL . . A RGLI . LSHLAAIYIK S FYP PLSAFCG . N . TV . TSSAA . SMAMTYLAG . GN . . .
UniRef100_UPI0002E871F4 TL . . R RAVF . LGHAVNNVVK K YTG KLSALCG . CAIA . AGIGA . GAGVSWLLG . GKD . .
UniRef100_UPI0002F55F5A KL . . Y RALT . LSNLIAIHQK Q GLG KLSAYCG . A . VS . AACGA . GAGIAYLH . G . . .
UniRef100_UPI0002FE0D91 QL . . A RALI . LSHLGAIIYK Q HYP PLSAFCG . N . TV . TSASA . AMAMTYLAG . GS . . .
UniRef100_UPI000306AC01 KL . . Y RSLI . FANLLGLYIK E GIG ELSAYCG . V . VS . AAAAS . ICGLAFLMK . G . . .
UniRef100_UPI00030F9BF7 LL . . A KSLF . FAHCLNRYVK E YSG KLSGMC . CGIA . SSIGS . TAGIYMLG . GNS . . .
UniRef100_UPI00033F2D2A QL . . I RQAT . LSHLTAIYIH S FLF VLSAFCA . T . DS . AAMGA . AAGVVCCLYD . GT . . .
UniRef100_UPI00035C15F2 EL . . A RALI . LSHLTAIYIK Q SLG RLSALCG . C . VV . AATGA . SCGITYLMG . G . . .
UniRef100_UPI0003605297 KL . . A RALA . LSNLVTVHIK Q YIG RLSPLCG . SGIA . GGVGA . NSGITYLMG . GS . . .
UniRef100_UPI000360BBA6 QV . . LEAVA . LSHVITAYVK A HFG RLSAVCG . CSAVA . AGAGA . TAGVTHLLG . GD . . .
UniRef100_UPI000373389A KM . . I RAVA . FSHLLAIWIK S KFG RLSALCG . V . TV . AGASA . AAAITYLLG . GDV . . .
UniRef100_UPI00036711A8 QL . . A RALI . MSHLGAIIYK S HYP PLSAFCG . N . TV . TSAAA . GMALTYLAG . GT . . .
UniRef100_UPI000369B3C4 EL . . L RAVA . ISHLLNVVYK I HTG NLSALCG . CAVA . AATGA . TAAVTWLM . PD . . .
UniRef100_UPI00036A4FE1 VV . . IEALA . LSHMITAYIK A YTG RLSALCG . CSAVA . AGAGA . AAGVAYLLG . GT . . .
UniRef100_UPI00036E7A0B QK . . I RALM . LSSLVVIYK Q KLG RLSALCG . C . VV . ASTGS . SSGITYLMG . GT . . .
UniRef100_UPI00037081CA RL . . Y RALV . LANLLSLHOK R YIG NLSAYCG . A . VS . AGAAA . ACGIAYLO . G . . .
UniRef100_UPI000372957C IL . . L RATA . LSLFLITMYIK E HSG RLSAFCG . CGIA . GGTGA . ACAIGYK . ADY . . .
UniRef100_UPI0003733871 TL . . L RALA . LSNLIAIHQK R FIG NLSAFCG . V . TC . AATGA . ACGVAYLLG . LSRQ . . .
UniRef100_UPI0003747996 AL . . A RALA . LSNLITVHIK H YIG RLSPLCG . SGIA . GGVGA . GSGIYLMG . GT . . .
UniRef100_UPI0003789E31 RL . . A RALA . LSHLVAIYIK H FAD RLSAFCG . A . VT . AAAGA . ACGISFLMG . GS . . .
UniRef100_UPI000378C8B9 EL . . I RGLT . LSHLSAIYIK Q SLG KLSALCG . C . VV . ASIGS . SCGITYLMG . GD . . .
UniRef100_UPI00037A28E8 TL . . Y RALV . LTNLLSLHOK R YIG NLSAYCG . A . VS . AGAAA . ACGIAYLD . G . . .
UniRef100_UPI00037A36CB YL . . Y RALL . VSNLLAIHOK K YIG KLSAFCG . A . VS . AGYAC . GAAITYML . G . . .
UniRef100_UPI000380DDF KL . . L RALV . VSNLVAIYK R YIG SLSAYCG . V . VS . AACGA . ACGICYLL . D . . .
UniRef100_UPI0003819044 KL . . Y RALT . LSNLIAIHEK S GIG RLSAYCG . A . VS . AGCAA . GAGIAYLH . D . . .
UniRef100_UPI0003981C8F KA . . Y RALV . LSNLIAIYQK K GLG KLSAYCG . A . VS . AAAAS . GAAITYLC . G . . .
UniRef100_UPI0003A134FF KT . . I RAVA . LSHLIAIFVK Y QFG RLSALCG . V . TI . AGASS . AAAITYLLD . GTK . . .
UniRef100_UPI0003A4ECDD EL . . I RGLF . MSHLMTIHIK T NVG RLSAYCG . A . IC . ASAGV . AASLTYLY . G . . .
UniRef100_UPI0003ADDECF IR . . Y RALI . VSNLSIYIK H YIG PLSAFCG . A . VS . ASCGS . GAAITYMA . G . . .
UniRef100_UPI0003B30D5B TL . . L RALV . VSNLTTIHIK T GIG RLSAYCG . A . VC . AGVGA . GAGITWLH . G . . .
UniRef100_UPI0003B725E4 EI . . Q KASL . LSCFITTSIVK S KFG FVSSECG . VVHA . AGGVI . IGGIYLYL . K . GK . . .
UniRef100_UPI0003B779DB QM . . LEAVA . LSHMITAYVK A HTG RLSAYCG . CSAVA . AGAGA . AAGVAYLLG . GD . . .
UniRef100_UPI0003BE4938 TL . . A RALA . LSHLTAISIH S RYT RLSALCA . A . ST . AAMGA . AAGMAWLLFT . RN . . .
UniRef100_UPI0003E34F48 KR . . I RALF . LSHLMAIYIH S KLP KLSALCA . V . TT . AAMGS . CAGLAWLLT . GK . . .
UniRef100_UPI0003F591C1 EL . . AEAIA . LSHLVTAIVK A KTG RLTPVCG . CSA . AGAGA . AALTRLAG . GT . . .
UniRef100_UPI0003F5EEC4 EL . . Y RALV . LSNLIAIYQK Y RMG RLSAYCG . A . VS . AAAGA . GAGITYLM . G . . .
UniRef100_UPI0003F9F671 KV . . Y RALA . LSNLIAIHQK T GIG RLSAYCG . A . VS . AGAAA . GAGIAYLC . G . . .
UniRef100_UPI0003FA1CAC EA . . L RAI . VSHIITAYVK A HTG RLSAYCG . CSAVA . AGAGA . AAGVAYLMG . GD . . .
UniRef100_UPI0004009E6D TL . . F RALL . VSCLVTIHIK T GIG RLSAYCG . A . VS . AGVGA . GAGISWLH . G . . .
UniRef100_UPI000400D5C8 LI . . Y KALT . LSAMVTCIVK A RVG RLSALCG . SAIA . GGA . AAGVAYLLG . GT . . .
UniRef100_UPI0004010F26 RL . . Y RALV . LSNLIAIHQK T SIG KLSAFCG . A . VS . AACGA . GAAITYML . G . . .
UniRef100_UPI0004025437 EL . . AEAALA . LSHLVTGAIK A KTG RLTPVCG . CSAVA . AGAGA . AALTRLAG . GT . . .
UniRef100_UPI000403B2AE KK . . Y RALA . LSNLTAIYK T FIG RLSAYCG . A . VS . AGAGA . GAGIAYLC . G . . .
UniRef100_UPI0004048F81 KL . . L RALA . ISHLCAIYK S FQD KLSALCA . G . TT . AAMGS . AALCWLMLG . GS . . .
UniRef100_UPI000404C648 KL . . A RALI . MSHLTSIHMK H RLG RLSALCG . A . TV . AAAAA . CCGIVLLMG . GG . . .
UniRef100_UPI000407936F QL . . AESLA . LSHLVCGFLK A HTG RLTPVCG . CAVA . AGAGA . AAGLVRLQ . GT . . .
UniRef100_UPI0004091018 KM . . Y RALV . ISNLIAAHLK T GIG SLSAFCG . A . VS . AATGS . GAGITYLR . G . . .
UniRef100_UPI00040EDDBF KM . . Y RALA . LSNLAAIYK T FIG RLSAYCG . A . VN . AGAGA . GAGIAYIC . G . . .
UniRef100_UPI000413485D KL . . M RAVA . MSDLVAVHVK H YIG ELSAFCG . A . VS . AACGA . GAAITYLR . G . . .
UniRef100_UPI00041613C4 DL . . A RALV . LSNLVTIRIK K HMG RLSPLCG . AGIA . GATGA . SCGITYLLG . GD . . .
UniRef100_UPI0004169C4B LM . . P RAVM . LSYLVTCISIK I GVG RLSALCG . SGVA . GGAGV . AATAYLFG . GT . . .
UniRef100_UPI0004186BE4 QL . . I RALI . LSHLSAIHMK S HLG KLSALCG . A . SL . AATAS . CCGIVLLG . GG . . .
UniRef100_UPI00041CA3D4 AM . . YQAVG . LSHVLTIVVK S HTG RLAPIC . CSA . AGAGA . AAGITWMLG . GD . . .
UniRef100_UPI00041E72C1 WR . . I KALA . LANLLALYIK Q GIG RLSAYCA . V . VS . AASAG . AAGVAYLM . G . . .
UniRef100_UPI000420196F QL . . Y RALL . LANLVTLEHK E GIG RLSAYCG . A . VS . AGAGA . GAGIAYLC . G . . .
UniRef100_UPI0004201E14 NR . . A RALM . LSHLMAYIYK D KLP RLSALCA . V . TT . AAMGA . AAGMAYLLG . GE . . .
UniRef100_UPI000422EAB3 EL . . I RALT . LSHLTAIYIK Q SLG RLSALCG . C . VV . ASIGS . SCGITYLMG . GD . . .
UniRef100_UPI000423710D QL . . A RALI . MSHLGAIIYK S HYP PLSAFCG . N . TV . TSSAA . AMAMTYLSG . GS . . .
UniRef100_UPI0004267E44 QM . . I RGLA . FSHLACIHIK T NVG RLSAYCG . A . IC . ASAAV . SGALAFVM . E . . .
UniRef100_UPI000427327C EL . . V RALM . LSHLTAIYIK Q SLG TLSALCG . C . VV . ASIGS . SCGITYLMG . GN . . .
UniRef100_UPI0004279044 KR . . V RALA . LSSMVAIYK S FLF KLSAFCA . T . VT . AAMGA . AAGMAWLLA . DD . . .
UniRef100_UPI00044D3E81 KL . . Y RALA . LANLVTIRIK T GIG RLSAYCG . A . VS . AGCAA . ACGIAYLL . G . . .
UniRef100_UPI000462FF1A EI . . AEGII . YSHLCTSFVK S RMG RLSPVCG . CAVA . AGAGA . AGGIVHLLG . GS . . .
UniRef100_UPI0004639C5B EI . . ARAIV . LSHLSTSFVK S RMG RLSPIC . CSAVA . AGAGA . AAGIAYLLS . QD . . .
UniRef100_UPI0004640B14 EL . . Y RALC . ISNLTIAQDQK R YIG PLSAYCG . V . VC . AAAAS . GAAITYLY . G . . .
UniRef100_UPI00046473C4 EI . . Y RALC . VSNLVAIYK Q YIG SLSAYCG . A . VS . AAAAG . GAGITYLC . G . . .
UniRef100_UPI0004684C3B KL . . I RALF . FSHLATTIHIK T NVG RLSAYCG . V . IC . SAAAV . AGALFLN . D . . .
UniRef100_UPI000469850B EL . . I RALV . LSHLTAIYIK Q SLG KLSALCG . C . VV . ASTGS . SCGITYLMG . GN . . .
UniRef100_UPI00046A0861 EL . . T RALI . LSHLTVIYIK Q SLG RLSALCG . C . VV . AATGS . SCGITYLMG . GD . . .
UniRef100_UPI00046E54AA EL . . V RALI . LSHLTAIYIK Q SLG ALSALCG . C . VV . ASIGS . SCGITYLMG . GN . . .
UniRef100_UPI00046F39A8 KL . . A RALI . MSHLTAIYK S YYP PLSAFCG . N . SV . TSGAA . AMAMTYLAD . GT . . .
UniRef100_UPI00046F70C9 KL . . A RALI . MSHLAAIYK S YYP PLSAFCG . N . SV . TSSAA . AMAMTYLAD . GS . . .
UniRef100_UPI000470DF48 QL . . Y RALL . ISNLTIAHMK E GIG RLSAYCG . A . VS . AGTGA . GAGIAYLL . G . . .
UniRef100_UPI000470EDDB KM . . L RAVA . LSDLLTIYQK Q FIG RLSAYCG . A . VN . AGCAS . AAGIAYLE . G . . .

UniRef100_UPI000472CED3 E L . . V R A L I . . M S N L T A I Y I K Q H L G T L S A L C G . . C . V V . A S T G S . S C G I T Y L M G . G T . .
UniRef100_UPI00047853AA V L . . V R G L A . . F S H L V T L Y I K N F T G R L S P V C G . . C A V A . A G T G A . A A G M T W M L G . G D D . .
UniRef100_UPI000478677B A T . . N R A L A . . L S L L I V G V I K S R T G I L T P H C G . . C A V A . A G T G A . A G G I A W L L G . G R A . .
UniRef100_UPI000478B76D K L . . Y R A L I . . I S D L V T I H Q K T G I G R L S A Y C G . . A . V C . A A G A S . G A G I A Y L Y . G
UniRef100_UPI000478B9A9F K L . . Y R A L V . . L A N L V T L H E K E G I G R L S A Y C G . . A . V S . A G A G A . G A G I A W L C . S
UniRef100_UPI00047894AD T L . . I R A L A . . L S H L I T V Y I K S Y T G K L S P L C G . . C A V A . A G I G A . S T G I A F L M G . G D
UniRef100_UPI00047CECD3 E L . . I R A L A . . L S H L V A I S V H A R Y T R L S A L C A . . A . S T . A A M G A . A A G M A W L F T . R D
UniRef100_UPI00047D518C R L . . A K S L A . . I S H L V T A Y V K N F T G R L S A V C G . . C G V A . A S T G A . T A G L S W L M S . G D I
UniRef100_UPI00047E2814 R I . . E E A L A . . L A C L L T T A T T H R L G T L S A V C G . . A S N A . A G I G I . A V G L V H L G G . G G
UniRef100_UPI00047F7DC2 I I . . I R S V A . . L S H L V T Y I Y K S Y T G A L S P V C G . . C G V A . A G V G A . S A G L T Y L L G . G N
UniRef100_UPI0004800CCA Q L . . L R A T A . . L S Y L V C M Y I K E Y S G K L S A F C G . . C A I A . A G T G M . A C G L A Y L K G . G T H
UniRef100_UPI000480F58B K L . . A R A T M . . L S Y L I C T Y I K E Y S G R L S A F C G . . C G I A . G G T G V . A C G I G Y L R M . A N E
UniRef100_UPI0004812F9D K L . . A R A L A . . I S H L V T G F I K N F T G R L S A V C G . . C G V A . A S T G A . T A G L S W L M D . S S Q
UniRef100_UPI000481BD86 E L . . Y R A L L . . L S N L V T L H E K E G I G R L S A Y C G . . A . V S . A G A G A . G A G I A W L C . T
UniRef100_UPI0004835BDC A L . . L R A I G . . L S H L I T A Y I K T Y T G R L S A V C S . . C S L A . A G A G S . A A G L A F A L G . G D
UniRef100_UPI000483D566 E M . . I R A L V . . V S N L I A I H I K T G I G S L S A Y C G . . A . T S . A A C G A . A A G I C H M K . G
UniRef100_UPI00048407FB K L . . Y R A L V . . L S N L I A I L Q K K H I G K L S A F C G . . V . V C . A A T G A . A S G I A Y L H . D
UniRef100_UPI00048572F0 E L . . I R A L M . . L S H L T A I Y I K Q S L G K L S A L C G . . C . V V . A S I G S . S V G I T Y L M G . G D
UniRef100_UPI000486D379 S L . . Q K A L A . . F G L L L L V I I K K Y T G L L T P M C G . . C A V A . V S A A A . A A A I T Y S L G . G K P
UniRef100_UPI000487A125 D L . . A R A L A . . L S N L V T I H V K S F I G R L S P L C G . . A G I A . A S I G S . C T A I T Y L L G . G E
UniRef100_UPI0004893023 N L . . A R S L I . . L S N L I A I H I K S Y L G R L S A L C G . . C . V V . A S A G A . S S G I T Y L L G . G D
UniRef100_UPI000489DAAC K V . . L R A V F . . F A H L I N L Y V K K H T G K L S A M C G . . C A I A . A G I A S . S V G I T W M L G . G N E
UniRef100_UPI00048C76FC Q T . . V R A L M . . L S H L T A I Y I K S Y Q N K L S A L C G . . A . T T . A A M G S . A A G I T Y L L D . G E
UniRef100_UPI00048D6FC1 T V . . L E A I A . . L S H I V T A Y V K A H T G R L S A I C G . . C S V A . A G S G A . T A G I T F L L G . G D
UniRef100_UPI0004880C16 Q L . . V R A V A . . L S H L V T I H I K S K F G R L S A L C G . . V . T V . S G T G A . S C G I T Y L L G . G G K
UniRef100_UPI000491433C Q L . . L R A L I . . V A N L V A V H I K T G I G W L S A F C G . . A . V S . A G T G A . A A G I A Y L H . G
UniRef100_UPI00049711BC R L . . Y R A L I . . I S N L I A I H Q K T G I G R L S A Y C G . . A . A S . A G C A A . G C G I A Y L L . G
UniRef100_UPI000497B560 R L . . Y R A L L . . L S N L V T L H E K E G I G R L S A Y C G . . A . I S . A G A G A . G A A I A W L C . G
UniRef100_UPI0004B019E5 E L . . V R A L M . . L S H L T V I Y I K Q S L G R L S A L C G . . C . V V . A A T G S . S C G I T W L M G . G G
UniRef100_UPI0004B06938 E L . . I R A L V . . V S N L V T I H Q K T G I G R L S A F C G . . V . V S . A G C G A . G A G I A F L H . G
UniRef100_UPI0004B0E061 K L . . Y R A L I . . F A N L I G L Y N K Q G I G K L S A Y C G . . V . V S . A G S S S . I S G I A M L K . G
UniRef100_UPI0004B27D60 T M . . L R A L L . . I S N L I S V H I K Y G I G A L S A F C G . . A . V S . A G C A A . G C G I A F L Y . G
UniRef100_UPI0004B2B5C4 K L . . Y R A L I . . I S N L C T I H Q K T G I G R L S A Y C G . . A . V S . A G V G A . G C G I A Y L K . G
UniRef100_UPI0004B2C343 E L . . I R A L F . . L S H L C T V H I K T Q V G R L S A Y C G . . A . M C . A A A G V . S G A L S F L M . G
UniRef100_UPI0004B65006 E L . . I R A L I . . L S N L T A I Y I K Q N L G A L S A L C G . . C . V V . A S T G S . S C G I T Y L M G . G T
UniRef100_UPI0004B82859 K L . . Y R A L A . . L S N L L G I H Q K S G I G K L S A Y C G . . A . V S . A G C A A . G A A I A Y L D . D
UniRef100_UPI0004BA18BC K M . . Y A A L C . . V A N L V S I H Q K K Y I G S L S A Y C G . . A . V S . A A A G A . A C G I A Y M N . G A
UniRef100_UPI0004D3CAB1 R L . . A R A L M . . L S H L S A I Y I H N Q L P R L S A L C A . . A . T T . A A M G A . A A G M A W L V D . G R
UniRef100_UPI0004E19D09 T L . . L E A I A . . L S H L V T A Y V K A Q T G R L S A V C G . . C S V A . A G A G A . T A G T I T Y L M G . G T
UniRef100_UPI0004F30DE M L . . A R A L A . . L S N L V T V H I K H Y I G R L S P L C G . . S G I A . G G V G A . S N G I T Y L M G . G S
UniRef100_UPI000509BABF N L . . A R A L A . . I S N L I T I H I K S Y L G R L S A L C G . . C G V A . A A I G S . S C A I T Y L L G . G D
UniRef100_UPI0005186669 R L . . L R A L L . . L S N L V T L H E K E G I G R L S A Y C G . . A . V S . A G A G A . G A G I A W L C . G
UniRef100_UPI000518E51E Q L . . Y R A L V . . V S N L V T I H L K T G I G S L S A Y C G . . A . T S . A G A G A . G A G I C Y L Y . G
UniRef100_UPI00051BF597 K I . . L R A V V . . L S D L M T M Q Q K S K I G R L S A Y C G . . V . I S . A G C S . G A G I A Y L Q . G
UniRef100_UPI00051C0711 K L . . L R A L C . . I S N L T A O D Y K R Y I G P L S A Y C G . . A . V C . A A A G A . G A G I T Y L C . G
UniRef100_UPI0005269EBB T L . . I R A L I . . L S H M T A I Y I H D K L P K L S A L C A . . V . T T . A A M G A . A A G M A W L L K . R N
UniRef100_UPI00052BD101 I L . . A R S I A . . L S Y I I N I Y I K E F S G K L S A F C G . . C A V S . A G T G V . S A G I C Y L L G . G R L
UniRef100_UPI00052C17F4 Q M . . A R A I M . . L S S L M V I Y I K Q S L G R L S A L C G . . C . V V . A A T G S . A C G I T Y L M G . G T
UniRef100_UPI00052D7434 Q K . . Y R A L L . . L S N L M V I Y I K Q K L G R L S A L C G . . C . V V . A A T G S . A A G I T Y L M G . G S
UniRef100_UPI00052DC3D2 R T . . T R A L M . . M S G L L V V Y I K Q L L G R L S C L C G . . M . V V . S G I G S . S A A I V Y L M G . G T
UniRef100_UPI00054D1D18 K L . . Y R A L L . . I S N L I S I H I K Y G I G A L S A F C G . . A . V S . A G C A A . G C G I A Y L H . G
UniRef100_UPI00054E526F K L . . A K A L A . . I S H I I N S Y I K Y Y I G R L S A L C G . . C G V A . A A T G A . S V A I S W L M G . A N E
UniRef100_UPI000551AC2E Q T . . T K A V I . . L S C L I T S I I T A K F G F V S S T C G . . T I H A . A G V G V . L G A V L Y L . Q . N R
UniRef100_UPI0005550901 K L . . A R A L V . . L A N L V A I H I K S Y L G R L S A L C G . . C . V V . A S S G A . S C G I T Y L M G . G N
UniRef100_UPI0005594DB9 K L . . Y R A L L . . I S N L I T L H L K T G I G R L S A Y C G . . A . V S . A G A G A . G S A I A W L H . G
UniRef100_UPI00055ABE32 E L . . I R A L I . . L S H L T V V Y I K Q K L G R L S A L C G . . C . V A . A A T G A . S C G I T H L M G . G D
UniRef100_UPI0005654CFA Q L . . I R G L F . . F S H M T T I H I K T N I G R L S A Y C G . . A . M C . A S A G V . A G A I S F L D . G
UniRef100_UPI000568CCCO Q L . . I R G L A . . F A D L M A L L Q K K Y I G D L S A Y C G . . A . T C . A G C A A . V S G I A Y I E . G
UniRef100_UPI00058D6E89 Q R . . T R A I A . . M S H L A A L Y I K A H L P V L S G L C A . . T . T T . A G M G A . A V G M S W L L D . G N
UniRef100_UPI00058EA537 E L . . A R A L A . . I S S L V T I Y I K S Y M G R L S P I C G . . A G I A . A S T G A . S A A M T Y L L G . G T
UniRef100_UPI00058F7465 K L . . Y R T L A . . F S N L L T I Y I K E F I G K L S A F C G . . A V S . A A C A S . G A A I T Y I D . G
UniRef100_UPI0005A6581E Q L . . T R A L V . . M S H L I A I Y I K T Y Q N K L S A L C A . . A . S T . A A M G A . G A A I T W L L G . G Q
UniRef100_UPI0005A7BDA1 L L . . A R A I A . . L S N L V T V H V K H Y I G R L S P L C G . . S G I A . G G V G A . S S G I T Y L M G . G S
UniRef100_UPI0005B25459 R L . . L R G I F . . Y G H I I N K F V K A Y V G R L S A F C G . . C A I S . A G V G A . N A G I T W M L G . G N D
UniRef100_UPI0005B26E11 K I . . I R G V A . . I S C L I T I Y I R Q W V G L L S P L C G . . V . V M . A A A G A . S A G I T Y I L G . G N V
UniRef100_UPI0005C560FF E M . . Y R A L M . . V S H L S T V H I K T N V G R L S A Y C G . . V . M T . A S A I V . S G A L V Y L D . G
UniRef100_UPI0005CD1BEA Q L . . A R A L I . . M S H L G A I Y I K S H Y P P L S A F C G . . N . T V . T S A A A . A M A M V Y L A G . G S
UniRef100_UPI0005D177AC K L . . F R S L V . . V S N L I A I H Q K Y Y I G S L S A Y C G . . A . V S . A A C G A . G A G I T Y M Y . G
UniRef100_UPI0005D21129 K R . . M R A L I . . I S N L V S I Y I K H Y I G A L S A F C G . . A . V S . A A C G A . G A A I T Y M S . G
UniRef100_UPI0005D301C2 Q L . . A R A L I . . M S H L G A I Y M K S F Y P P L S P F C G . . N . A V . T S S A A . A M G M V Y L A G . G S
UniRef100_UPI0005D4011A Q L . . I R A L M . . L S H L M A I Y I K S H Q N K L S A L C G . . A . T T . A A M G A . V A G M T W L L G . G D
UniRef100_UPI0005DDAE7D K L . . A R S L A . . I S H L L T A Y V K N Y T G R L S A V C G . . C G V A . A S I G A . T A G L A W L M G . C T E
UniRef100_UPI0005DF79E5 T M . . T R A L I . . M S H L A A Y M K S F Y P P L S P F C G . . C . A V . T S S A A . A M A M T Y L A G . G T
UniRef100_UPI0005E1A8D7 T L . . A R A L A . . L A H L A A I S I H M R Y T R L S A L C A . . A . S T . A A M G A . A A G M S W L L T . K N
UniRef100_UPI0005EDBE13 Q L . . A R A L I . . M S H L G A I Y I K S Y Y P P L S A F C G . . N . T V . T S A A A . S M A L V Y L A G . G S
UniRef100_UPI0005EECA29 K M . . I R A V A . . L S H L I T I H I K S K F G R L S A L C G . . V . T A . A G M G A . S G A I V Y L L D . G H L
UniRef100_UPI0005F18896 R L . . A R A L M . . L S H L S A I Y I H Y Q L P R L S A L C A . . A . T T . A G M G A . A A G M A W L M G . G S
UniRef100_UPI00061465DC R L . . A R A L M . . L S H L S A I Y I K N Q L P R L S A L C A . . A . T T . A A M G A . A A G M A W L V D . G R
UniRef100_UPI00061540F1 T L . . T R A L T . . L S H L V A I S V H A R Y T R L S A L C A . . A . S T . A A M G A . A A G M A W L F S . R D
UniRef100_UPI00061CEC06 T L . . L R A L V . . L S H L M A I Y V H S H F P P L S A L C A . . A . T T . A S M G A . A A G M A W L L T . K D
UniRef100_UPI00061D174B Q L . . T R A L M . . L S H L T A I Y I H S Q L P T L S A L C A . . A . T T . A S M G A . A A G I A W L I E . G R
UniRef100_UPI000645EB4A E L . . A R A L V . . I S N L L S I Y I K S K M G R L S A L C G . . V . A V . A A T A S . S C G I V F L L G . G T
UniRef100_UPI00064ED1A5 Q L . . A R A L A . . L S H L V A I Y I K C K L P R L S A L C A . . T . T T . A G M G A . A A G I I W L M D . G S
UniRef100_UPI00064F42C5 T L . . I R G V V . . L S N L I T I Y I K S I L G R L S L C G . . A . T T . S A T G A . C C G I T Y M M G . G G E
UniRef100_UPI000650874E E L . . A R A L M . . L S H L T A I Y I K H Q L P R L S A L C A . . A . T T . A A M G A . A A G M A W L F D . G R
UniRef100_UPI000657FCDF E L . . A R A L I . . L S H L M A I Y I H S Q L P T L S A L C A . . A . T T . A A M G A . A A G M A W L L E . P R
UniRef100_UPI00065DC13D Q L . . Y R A L T . . L S N L V A I H Q K T G I G R L S A Y C G . . A . V C . A G A A A . G A G I A Y L Y . G
UniRef100_UPI000664A9FE R L . . A K A L A . . I S H L I T G Y I K N Y T G R L S A V C G . . C G V A . A S T G S . A A G I S W L M D . G D M
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UniRef100_UPI00067E8717 K L . . Q R A V F . . F G H A V N N E V K K Y T G K L S A I C G . . C A I A . A G I G A . T A G I T W L L G . G T
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UniRef100_UPI0006C39D8F Q L . L R A T A . L S Y L V C M Y I K E Y S G R L S A F C G C A I A . A G S G M . A C A L V Y I L R G . G T V .
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UniRef100_UPI0008298F8F K L . L R A T A . L S Y L I T M Y I K E Y S G K L S A F C G C G I A . A G T G M . A C G L A F M R D . A S E .
UniRef100_UPI00082B4A3B K L . Y R A L A . L S N L V A I H Q K T G I G R L S A Y C G A V C . A G A A A . G T G I A Y L C . G . . .
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UniRef100_UPI00082CB2ED L R . L R A L A . L A N L I A I H Q K K Y I G N L S A F C G A V S . A A A G A . A G C I A Y M I . L K L Y .
UniRef100_UPI00082DCA09 K L . Y R A L T . L S N L V A I H Q K T G I G R L S A Y C G A V C . A G A A A . V A G I A Y L C . G . . .
UniRef100_UPI00082E56C3 T L . L R A L T . L S N L T A I H Q K T A I G R L S A Y C G A V S . A G A G A . G A G I A Y L H . G . . .
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UniRef100_UPI0008328999 E M . Y R A L V . V S N L I A V H I K N G I G S L S A F C G A V S . A G C A A . A G C I A Y L M . G . . .
UniRef100_UPI0008338905 K L . Y R A L A . L S N L L T I H L K S E I G R L S A Y C G A V S . A G C G S . G A A I A Y L Y . G . . .
UniRef100_UPI000833FEB4 K L . Y R A L L . F A N L L A A Y Q K S Y I G R L S A Y C G A V S . A A A A S . V A G V A F L D . D . . .
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UniRef100_UPI00088B7A46 Q L . Y R A L V . L A N L V T I H I K T G I G A L S A Y C G A T S . A G A G A . G A G I C F L Y . G . . .
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UniRef100_UPI000934464B E L . I R A L M . L S H L T V I Y I K E S L G R L S A L C G C V V . A A T G S . S C G I T W L M G . G T .
UniRef100_UPI0009388263 E L . I R G L F . V S H L T T I H V K T N V G R L S A Y C G A T C . A A A G V . A A S L T Y L H . G . . .
UniRef100_UPI00093C1390 K L . Y R A L L . L S N L V T I H Q K T G I G R L S A Y C G A V S . A G A G A . G A G I A Y L E . G . . .
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UniRef100_UPI000984CB9F R L . M R A V F . F A H V I N K Y V K I Y T G K L S S M C G C A I A . A G I G A . S A G I T W L L G . G N D .
UniRef100_UPI000987896C E L . V R A V V . L S D L T A V H V K Y F I G E L S A F C G A V S . A S C G A . G A G I C Y L R . G . . .
UniRef100_UPI0009885148 M L . L R A T A . L S Y L V C M Y I K E Y S G K L S A F C G C A I A . A G T G M . A C G L T M M R G . G D A .
UniRef100_UPI000988E457 K L . Y R A L A . L S N L T A I H Q K T P I G R L S A Y C G A V N . A G A G A . G A G I A Y L C . G . . .
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UniRef100_UPI00098D3B67 E R . I R A Q T . L S H L V A I Y I H N T F P A L S A L C A T S T . A A M G A . A A G M G W L L G D K K .
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UniRef100_UPI0009B08107 R L . R A L V A . L S N L V A I H Q K T G I G R L S A F C G A V C . A G A A A . G A G I A Y L D . G . . .
UniRef100_UPI0009B9C8CB K L . L R A T A . L S Y L V T M Y I K E Y S G R L S A F C G C A I A . A G T G M . A C A L V Y L K D . G T L .
UniRef100_UPI0009BA4056 K L . Y R A L C . L S N L T A I H Q K A K I G K L S A Y C G A V S . A A T G A . G A G I C Y L C . G . . .
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UniRef100_UPI0009BBCF51 V M . Y R A L V . V S N L V A L L Q K R G I G R L S A F C G A V C . A G C A G . G A G I T Y L H . G . . .
UniRef100_UPI0009BBFC5B K L . A T L A . F S H L T T A Y I K I F T G G L S P V C G C A V A . A G I G A . S A A V T W A L G . G T N .
UniRef100_UPI0009COCF43 K L . I R A L T . L S H L T A I Y I H A F L P V L S A Y C A T D S . A A M G A . A A A L I Y I D S . A D .
UniRef100_UPI0009D940DD V L . N R A L L . L S N L L A I Y Q K Q S I G R L S A Y C G A V T . A S C A A . V A A I A F L D . G . . .
UniRef100_UPI0009DD1839 T L . L R A L V . I S N L V A V H Q K A G I G S L S A Y C G A T S . A G A A A . G A G I A F L L . G . . .
UniRef100_UPI0009DE0C1B K L . Y R A L L . I S N L V T I H A K S G I G R L S A Y C G A V S . A G A G A . G A G I A F L Y . G . . .

UniRef100_UPI0009DF0474 K L . . . A K S L A . . . I S H L V T A Y V K N . . . F T G R L S A V C G . . . C G V A . . . A S T G A . . . T A G L A W L M S . . . G N I . . .
UniRef100_UPI0009E1BAB6 E R . . . Y R A L A . . . M G L M S I H Q K T . . . G I G R L S A Y C G . . . A V S . . . A A C G A . . . A C G M S Y L E . . . R . . .
UniRef100_UPI0009E334B1 S L . . . A R G L F . . . F A H I I N R Y V K E . . . Y S G K L S G L C G . . . C A I G . . . A A I G A . . . S A G I A F M L G . . . G S E . . .
UniRef100_UPI0009E6AA31 K T . . . I R A L T . . . I S N L I A I H I K T . . . Y L G R L S A L C G . . . C . . . V V . . . A S T G S . . . S C G I T Y L L G . . . G E . . .
UniRef100_UPI0009E76B25 K I . . . A R A V A . . . F S H L I T S Y I K L . . . Y T G R L S P V C G . . . C A V A . . . A G I G A . . . A S A M T W V L G . . . G N E . . .
UniRef100_UPI0009F89859 T T . . . I R A L M . . . L S H M M A I Y I H S . . . K L P K L S A L C A . . . A . . . S T . . . A A M G A . . . A A G I A Y L T . . . K D . . .
UniRef100_UPI0009F905D5 R L . . . L R A V A . . . L A D L V A I H T K S . . . Y I G A L S A F C G . . . V . . . V C . . . A A C G A . . . G A A I T W M S . . . G . . .
UniRef100_UPI000A02F418 E L . . . I R A L A . . . V S T V V T I T V K R . . . I L T R M T N V C G . . . C T V A . . . G A S G V . . . A A G T V S L L G . . . G S R . . .
UniRef100_UPI000A039A04 R T . . . L R A L A . . . L S H L V T A F V K Q . . . Y T G R L S T M C G . . . C A V A . . . A G A G A . . . A A A A T W L Q G . . . G K A . . .
UniRef100_UPI000A054DEE T M . . . V K S L A . . . L S A T V T L L V K N . . . K L G S L S R I C S S . . . A . . . F A . . . G S W G I . . . A A A T L W L L G . . . S D . . .
UniRef100_UPI000A0591C9 H L . . . I R A L F . . . L S H L M A I Y I H S . . . K L P K L S A L C A . . . A . . . T T . . . A A M G S . . . C A G I A W L L S . . . G K . . .
UniRef100_UPI000A05E698 E T . . . L K A V M . . . M S C L I T S L I T S . . . K F G F V S S T C G . . . V V H A . . . A S V G L . . . I A G I L Y L . . . K . . . K R . . .
UniRef100_UPI000A1C9B8B Q L . . . I R S L M . . . L S H L M V Y I K Q . . . S L G R L S A L C G . . . C . . . V V . . . A A T G A . . . S C G I T Y L M G . . . G N . . .
UniRef100_UPI000A7D81D4 L R . . . L R A L T . . . L S H A V A L Y A H A . . . G L P V L S A F C A . . . A . . . A T . . . A A M G A . . . A A G V C F I L D . . . G S . . .
UniRef100_UPI000A919F2C Q L . . . Y R A L L . . . V S D L V T I H Q K T . . . G I G R L S A Y C G . . . A . . . V S . . . A G C G A . . . G A G I A Y L F . . . G . . .
UniRef100_UPI000B02A458 A L . . . I R A C A . . . L S N L T A I Y I K Q . . . K F G V L S A L C G . . . A . . . V S . . . A A S G A . . . A C G I T Y L L G . . . G D F . . .
UniRef100_UPI000B34E5B4 K L . . . Y R A L L . . . V S N L V A I H Q K T . . . A I G R L S A Y C G . . . A . . . V S . . . A A C G A . . . G A A I T Y L S . . . G . . .
UniRef100_UPI000B34FC2F T L . . . T R A L A . . . M S H L I A I Y I K T . . . Y Q N K L S A L C A . . . A . . . S T . . . A A M G S . . . S A A I T W M L G . . . G T . . .
UniRef100_UPI000B369692 Q L . . . I R A L T . . . L S H L T A I Y I K Q . . . S L G K L S A L C G . . . C . . . V V . . . A A T G S . . . S C G I T Y L M G . . . G S . . .
UniRef100_UPI000B37B82C L L . . . Y R A L L . . . I S N L V A I H Q K K . . . Y I G R L S A F C G . . . A . . . V S . . . A G A A A . . . G A G I A Y L L . . . D . . .
UniRef100_UPI000B398C94 K L . . . Y R A L A . . . L S N L T A I Y I K T . . . G I G T L S A Y C G . . . A . . . V S . . . A G A A A . . . G A G I A Y L T . . . E . . .
UniRef100_UPI000B41319A E L . . . A R A L M . . . L S H L T V I Y I K Q . . . K L G R L S A L C G . . . C . . . V T . . . A A T G S . . . S C G I V L L M G . . . G K . . .
UniRef100_UPI000B497A29 Q L . . . I R A V A . . . L S N L I A I Y I K T . . . K I G R L S A L C G . . . A . . . T A . . . S G S G A . . . S C G I T Y L L G . . . G G K . . .
UniRef100_UPI000B803E6A T L . . . Y R A L A . . . L S N L I S I H I K T . . . G I G K L S A F C G . . . A . . . V S . . . A S C A G . . . T A A I A Y L H . . . Q . . .
UniRef100_UPI000B8A9D7C K V . . . L K A L A . . . L S I L V T I H T K H . . . Y I G R L S V L C G . . . C S I A . . . A A I G S . . . C C G I Y L L D . . . G N . . .
UniRef100_UPI000B96A611 E L . . . I R A L T . . . L S H L T A I Y I K Q . . . S L G R L S A L C G . . . C . . . V V . . . A S I G S . . . S C G I T Y L M G . . . G Q . . .
UniRef100_UPI000B9AD5C9 K L . . . A R A L I . . . L S N L V A I Y I K S . . . Y Y P P L S A F C G . . . N . . . T A . . . T S S A V . . . A M A M Y L M G . . . G D . . .
UniRef100_UPI000BE30C64 K I . . . I R A I T . . . L S H L V T I F V K S . . . Y T G S L T P V C G . . . C G V A . . . A G V G S . . . S A G L T Y L F G . . . G N . . .
UniRef100_UPI000BE32075 V L . . . I R A L V . . . L T N L L L H Q K Q . . . Y I G N L S A Y C G . . . A . . . V S . . . A G A A A . . . A C G I A Y L Q . . . G . . .
UniRef100_UPI000BEC9F6 E L . . . I R A V T . . . L S H L L A I Y I K N . . . Q F G R L S A L C G . . . V . . . T V . . . A G A S A . . . S A A I T Y L L G . . . G D I . . .
UniRef100_UPI000BF17E78 R L . . . A R A L M . . . L S H L S A I Y I H H . . . Q L P R L S A L C A . . . A . . . T T . . . A A M G A . . . A A G M A W L I D . . . G R . . .
UniRef100_UPI000BF7A1D0 T M . . . I R A V T . . . L S H L I T I H I K S . . . K F G R L S A F C G . . . V . . . T V . . . S G V G A . . . S C G I A Y I M D . . . K K K . . .
UniRef100_UPI000C0740483 T L . . . A R G L F . . . F A H V I I N R Y V K E . . . Y S G K L S G M C G . . . C A I G . . . A A I G A . . . S A A I A F M L D . . . G D E . . .
UniRef100_UPI000C079C6A K L . . . S K A L A . . . I S H L V T G Y I K N . . . Y T G R L S A V C G . . . C G V A . . . A S T G S . . . A A A I T W L M D . . . G T Y . . .
UniRef100_UPI000C085CDF D L . . . Q R G L L . . . F A N L L G L Y Q K K . . . N I G K L S A Y C G . . . V . . . V S . . . A A S S A . . . I C G L A F L K . . . G . . .
UniRef100_UPI000C0899A6 K L . . . L R A L V . . . I S N L V T I H Q K T . . . G I G R L S A Y C G . . . V . . . I T . . . A G S G C . . . G A G I A Y L H . . . G . . .
UniRef100_UPI000C126F74 T L . . . I R A L A . . . L S H L I A V I Y H T . . . R L P K L S A L C A . . . V . . . T T . . . A S M G A . . . A A G M A Q L L N . . . G G . . .
UniRef100_UPI000C1C4F8C K L . . . Y R A L I . . . V S N L I G I H Q K R . . . F I G K L S A F C G . . . A . . . V S . . . A G A G A . . . C G G I A Y L M . . . G . . .
UniRef100_UPI000C704F69 T L . . . I R G L F . . . F S H M T I T I H I K S . . . N I G R L S A Y C G . . . A . . . I C . . . A S A G V . . . A G A I S F V D . . . G . . .
UniRef100_UPI000C756D7A A L . . . L R A T A . . . L S Y L I T M Y I K E . . . Y S G K L S A F C G . . . C G I A . . . A G T G M . . . A C G L A Y L Q G . . . A E E . . .
UniRef100_UPI000C7898D9 Q L . . . I R A L T . . . L S N L V A I Y I K E . . . S L G R L S A L C G . . . C . . . V V . . . A S T G S . . . S C G I T Y L M G . . . G E . . .
UniRef100_UPI000C790D6F R M . . . Y R A L A . . . V S N L L A I H Q K A . . . Y I G V L S A Y C G . . . A . . . V S . . . A G S A S . . . A A G I A Y L E . . . G . . .
UniRef100_UPI000C7A5CFB E L . . . L R A L A . . . V S N L I S L H Q K K . . . Y I G S L S A Y C G . . . A . . . V S . . . A A T G S . . . A A A I C W L M . . . G . . .
UniRef100_UPI000C7B0E47 K L . . . Y R A L L . . . L S N L L T L H Q K T . . . G I G R L S A Y C G . . . A . . . V S . . . A G A G A . . . G A G I A Y L K . . . G . . .
UniRef100_UPI000C7B4464 K L . . . Y R A L A . . . L S N L V S T Q Q K K . . . Y I G S L S A Y C G . . . A . . . V S . . . A A T G A . . . A C G I A Y L Q . . . D . . .
UniRef100_UPI000C7BBC84 K M . . . Y R A L V . . . V S N L L S I H Q K Q . . . Y V G R L S A Y C G . . . A . . . V S . . . A A C G A . . . G A A I M Y M S . . . G . . .
UniRef100_UPI000C7B66C1 K L . . . Y R A L C . . . I S N L T A I H Q K S . . . M I G R L S A Y C G . . . A . . . V S . . . A A T G A . . . G A A I A Y L H . . . G . . .
UniRef100_UPI000C838674 R L . . . L R A L A . . . L S D L V S I H V K S . . . Y I G A L S A F C G . . . A . . . V C . . . A A C G A . . . G A A I T W M S . . . G . . .
UniRef100_UPI000C8393D6 K L . . . Y R A L V . . . V S N L I S V H Q K R . . . Y I G N L S A Y C G . . . A . . . V S . . . A G T A A . . . A C G I A Y L D . . . G . . .
UniRef100_UPI000C852B7D R L . . . L Q A L A . . . F S N L V T V R L K A . . . G I G R L S A Y C G . . . V . . . V C . . . A A C C A . . . M S A I T Y L Q . . . N . . .
UniRef100_UPI000C8536EC K K . . . L R A A A . . . L A N L V N I Y V K S . . . F T G T L S A V C A . . . C G V A . . . S G L G A . . . S V G V Y M L G . . . G G . . .
UniRef100_UPI000C8567A5 N L . . . L R A V A . . . L S D L V T V H I K Q . . . G I G R L S A L C G . . . C G I A . . . A A V G A . . . S C G I L Y L L G . . . N . . .
UniRef100_UPI000C860EC0 S L . . . L R A Q A . . . L S Q L V T I H I K T . . . H I G R L S P L C G . . . C A I A . . . A S I G S . . . C C A I T Y L L G . . . G T . . .
UniRef100_UPI000C86486F Q L . . . L R A V A . . . L A D L V A V H Q K S . . . Y I G A L S A F C G . . . V . . . V C . . . A A C G A . . . A A A I T W M R . . . G . . .
UniRef100_UPI000CDB216C R L . . . V R A L A . . . L S H L I A V Y H K S . . . F S D K L S A F C G . . . A . . . V T . . . A A V G A . . . G C G V T F L L G . . . G G . . .
UniRef100_UPI000CEE9E5C K L . . . Y R A L V . . . L S N L I A I L Q K K . . . H I G K L S A F C G . . . V . . . V C . . . A A T G A . . . A S G I A Y L N . . . N . . .
UniRef100_UPI000CF192D3 L . . . N R A L F . . . L S H L I A V Y I H S . . . K L P R L S A L C A . . . V . . . T T . . . A G I G S . . . Y A G I A W L F S . . . K D . . .
UniRef100_UPI000CF9CB2C E T . . . L R A L I . . . V G D L I S V Y I K H . . . Y I G P L S A F C G . . . A . . . V N . . . A A C G A . . . G A A I T W M A . . . T . . .
UniRef100_UPI000CFACD79 R M . . . I K A I V . . . V G Y G T T L Y T K R . . . V L G K L S S V C G . . . C A I A . . . S S I G A . . . T V G I I W M G . . . G S . . .
UniRef100_UPI000D08EFB8 Q V . . . Y R A L A . . . L S N L V A I H Q K Q . . . G I G R L S A Y C G . . . A . . . V S . . . A G A A A . . . G A G I A Y L C . . . G . . .
UniRef100_UPI000D08EAF6E E L . . . I R A L T . . . L S H L T A I Y I K T . . . N L G K L S A L C G . . . C . . . V V . . . A S I G S . . . S C G I T Y L M G . . . G D . . .
UniRef100_UPI000D08ED673 L L . . . L R A T A . . . L S Y L I T M Y I K E . . . Y S G K L S A F C G . . . C G I A . . . A G T G M . . . A C G L A Y L R G . . . G G E . . .
UniRef100_UPI000D14E74A K L . . . I R A L T . . . L S H L T A I Y I H A . . . F L P L L S A Y C A . . . T . . . D S . . . A A M G A . . . A A G L I Y L E S . . . E D . . .
UniRef100_UPI000D16B181 H L . . . I R A L I . . . L S H L M A I Y I K S . . . Y Q N K L S A L C G . . . A . . . T T . . . A S M G A . . . V S G I T W L L G . . . G N . . .
UniRef100_UPI000D1756B8 T L . . . A R A L I . . . M S H L G A V Y I K S . . . H Y P P L S A F C G . . . N . . . T A . . . T S A A A . . . A M A M Y L R G . . . G N . . .
UniRef100_UPI000D1E7FE7 R L . . . Y R S L A . . . A A N L I A I H Q K K . . . Y I G S L S A Y C G . . . A . . . V S . . . A A C G A . . . G A G I A Y M L . . . G G . . .
UniRef100_UPI000D383FBF K L . . . A R A L I . . . L S H L S A I Y I H N . . . Q L P R L S A L C A . . . T . . . T T . . . A A M G A . . . A A G M A L L A G . . . G D . . .
UniRef100_UPI000D3A1105 K L . . . Y R A L V . . . L S N L I A I L Q K K . . . H I G K L S A F C G . . . V . . . V C . . . A A T G A . . . A S A I A Y L N . . . D . . .
UniRef100_UPI000D3E07D8 K M . . . I R A V A . . . L S H L I T I H I K S . . . K F G R L S A L C G . . . V . . . T A . . . A G M G A . . . S G A I V Y L L D . . . G D L . . .
UniRef100_UPI000D3ED3B7 A T . . . I R A L M . . . M S H L M A I Y I K S . . . Y Q H K L S A L C G . . . A . . . T T . . . A S M G A . . . V A G M T W L L G . . . G E . . .
UniRef100_UPI000D54E33D D L . . . I R A L I . . . L S H L I V T C I K Q . . . K L G R L S A L C G . . . C . . . V A . . . A A T G A . . . S C G I T Y L M G . . . G D . . .
UniRef100_UPI000D6459D2 K I . . . T R A L A . . . V A H F T N M Y L R A . . . Y T G K L S P L C G . . . A . . . V T . . . G G A G V . . . A A A I C W L L G . . . G S H . . .
UniRef100_UPI000D648457 K R . . . L R A L F . . . L S H L M A I Y I H S . . . K L P K L S A L C A . . . V . . . T T . . . A S M G S . . . C A G I A Y L T L . . . G K . . .
UniRef100_UPI000D6A8123 T L . . . Y R A L L . . . V S N L S T I H Q K S . . . H I G R L S A Y C G . . . A . . . V S . . . A G A G A . . . G A G I A W L L . . . G . . .
UniRef100_UPI000D78245F Q L . . . F R A L A . . . V S N L L A I H Q K K . . . Y I G K L S A Y C G . . . A . . . I S . . . A S A G A . . . G A A I A W L Q . . . G . . .
UniRef100_UPI000DC1E517 E L . . . V R A L T . . . L S H L T A I Y I K Q . . . N L G A L S A L C G . . . C . . . I V . . . A C T G S . . . S C G I T Y L M G . . . G D . . .
UniRef100_UPI000DD46ABB E L . . . I R A L A . . . L S H L V A I S V H A . . . R Y T R L S A L C A . . . A . . . S T . . . A A M G A . . . A A G M A W L F T . . . R D . . .
UniRef100_UPI000DE353AA E L . . . A R A L I . . . L S N L V A I H Q K T . . . N L G K L S A L C G . . . V . . . I V . . . A G I G A . . . G C G M T Y L L G . . . G D . . .
UniRef100_UPI000DE3B614 T L . . . Y R A L V . . . I S N L I A V H L K T . . . G I G R L S A Y C G . . . A . . . V S . . . A G C A A . . . G C G I A Y L Q . . . G . . .
UniRef100_UPI000DE3E565 K M . . . Y R A L V . . . L A N L I T I H Q K T . . . N L G R L S A Y C G . . . A . . . V N . . . A A C G S . . . G A G L T Y L E . . . D . . .
UniRef100_UPI000DE4BEB8 A L . . . L R A T A . . . L S Y L I C M Y I K E . . . Y S G K L S A F C G . . . C A I A . . . A G T G M . . . A C G L V N L R G . . . G D K . . .
UniRef100_UPI000DE61C72 F L . . . I R C L F . . . F S H M S T I H I K T . . . N V G R L S A Y C G . . . V . . . I C . . . A A A A V . . . A G A L C M V Q . . . R . . .
UniRef100_UPI000DECC5CD Q L . . . T R A L M . . . L S H L M A V Y I K S . . . R L P K L S A L C A . . . V . . . T T . . . A S M G A . . . A A G M A L L L G . . . G G . . .
UniRef100_UPI000DEF03C7 K L . . . Y R A V A . . . L S D L V T Y Q K T . . . G I G R L S A F C G . . . A . . . V C . . . A G C G S . . . G A G I A Y L H . . . G . . .
UniRef100_UPI000DEF259B T L . . . A R A L M . . . L S H L M A I F T K S . . . K L P T L S A L C A . . . A . . . T T . . . A A M G A . . . A A G M A W L F K . . . K D . . .
UniRef100_UPI000DF1438D K L . . . L R A L A . . . L S N L I T I Y I K T . . . A T G S L S A M C G . . . V A V A . . . A G V G V . . . S A S T V Y M L D . . . G K . . .
UniRef100_UPI000DF6DC3C Q L . . . Y R A L V . . . L S N L V A I H Q K T . . . G I G R L S A F C G . . . A . . . V C . . . A G A A A . . . G A G I A Y L D . . . G . . .
UniRef100_UPI000E0A886D Q T . . . I R A L M . . . L S H L M A I Y V K S . . . Y Q N K L S A L C G . . . A . . . T T . . . A S M G S . . . A A G I T Y L L G . . . G N . . .
UniRef100_UPI000E294F6E K T . . . I R A L F . . . L S H A L A I Y I H A . . . K L P T L S S L C A . . . A . . . N T . . . A A M G S . . . A G A C A W L F S . . . E R . . .
UniRef100_UPI000E36D8D3 D L . . . A R A L V . . . M S F L V M H I K E . . . Y M G R L S P L C G . . . S G I A . . . G G T G S . . . C C G M T Y L L G . . . G N . . .
UniRef100_UPI000E415A64 K K . . . Y R A L A . . . L S N L T A I H Q K T . . . G I G R L S A Y C G . . . A . . . V S . . . A G A A A . . . G A G I A Y L C . . . G . . .
UniRef100_UPI000E415E63 I L . . . Y R A T M . . . L S Y L V C T Y I K E . . . Y S G R L S A F C G . . . C A I A . . . A G S G M . . . A C G V C Y M K G . . . G R L . . .
UniRef100_UPI000E4A5D29 E I . . . K R A L L . . . L S Q L V T V Y I K Q . . . K T G K L S S L C G . . . S A L A . . . A G A G M . . . A S G M T Y L Q G . . . G K . . .
UniRef100_UPI000E5516D8 K L . . . Y R A L L . . . V S N L L S I Y Q K H . . . Y I G S L S A F C G . . . A . . . V T . . . A A C G S . . . G A A L T Y M C . . . G . . .
UniRef100_UPI000E69E6A7 K L . . . Y R A L L . . . V S N L L S I Y Q K H . . . Y I G S L S A F C G . . . A . . . V T . . . A A C G S . . . G A A L T Y L S . . . G . . .
UniRef100_UPI000E686D30 R L . . . C R A L M . . . L S H L T A I Y I H S . . . K L P K L S A L C A . . . A . . . T T . . . A S M G A . . . A A G M A W L L G . . . G E . . .
UniRef100_UPI000EF8FBF3 A L . . . A R A F I . . . M S H L G A I Y I K S . . . H Y P P L S A F C G . . . N . . . V T . . . T S A A A . . . A M A M V L A G . . . G T . . .
UniRef100_UPI000EFC8C67 Q T . . . I R A L T . . . L S H L T V I Y I K Q . . . S L G R L S A L C G . . . C . . . V V . . . A A T G S . . . S C G I V Y L M G . . . G G . . .
UniRef100_UPI000F04B479 K L . . . Y R T L V . . . V S N L T A I H Q K K . . . Y I G N L S A Y C G . . . A . . . V S . . . A A C G S . . . G A A I T Y L Y . . . D . . .
UniRef100_UPI000F081968 K I . . . I R S V T . . . L S H L I T I Y V K S . . . Y T G A L S P V C G . . . C G V A . . . A G V G A . . . S A G I T Y L L D . . . G S . . .
UniRef100_UPI000F08C649 Q Q . . . L R A L T . . . L S Q L L A I Y I K A . . . Q Q H K L S A L C G . . . A . . . T T . . . A G M G A . . . T A G I T H L L G . . . G D . . .
UniRef100_UPI000F52D358 R I . . . Y R A L A . . . L S N L T A I H Q K T . . . P I G R L S A Y C G . . . A . . . V S . . . A G A G A . . . G A G I A Y L C . . . G . . .
UniRef100_UPI000F63E4E3 K I . . . I R S V A . . . L S H L V T I Y I K S . . . Y T G A L S P V C G . . . C G V A . . . A G V G A . . . S A G I T Y L L G . . . G D . . .

UniRef100_UPI000F63FEC6 KM . YRALV LSNLIAIHQK T GI G PLSAYCG . A . VS . AGCAS . GAAIAYLK . G
UniRef100_UPI000F6449DF KM . LRSVM ISILLTIRIK Y HV G RLSPICG . A . TL . SGAAG . AGAVWLMG . GNR
UniRef100_UPI000F68E51C QL . VRALF LSHLMAYIYH S KLP KLSALCA . V . ST . AAMGS . CAGVWLLT . GK
UniRef100_UPI000F778D8E KF . IRALA LSHLVAIYIH S FL P VLSAFCA . A . TT . ASMGA . AVGICYLFD . ED
UniRef100_UPI000F7823C1 RL . IKALT LSHLTALYIH A FL P VLSAFCA . T . DS . AAMGA . AAGSIYLLK . ND
UniRef100_UPI000F784D51 KL . IRALT LSHLTALYIH A FL P VLSAYCA . V . DS . ASMGA . GVCIIYLLD . DN
UniRef100_UPI000F78F92D KF . IRALA LSHLVAIYIH S FL P VLSAFCA . A . DS . AAMGS . AVGVCYLLD . EN
UniRef100_UPI000F796C8D HL . LRALT LSHLTALYAH A YL P VLGPFCA . T . DT . AAMGA . AVGSIYLLA . LG
UniRef100_UPI000F79C1FE QL . IRALT LSHLTALYIH A FL P VLSAYCA . V . DS . AAMGA . GTGCYLLK . NN
UniRef100_UPI000F79F9B0 TL . VRGIT LSHLTALYIH A FL P VLSAFCA . T . DS . AAMGA . AAGVYLLM . DD
UniRef100_UPI000F79FC33 DL . IRALT VSHLTALYIH S FL P VLSAFCA . T . DS . AAMGA . ATGCYLLT . ND
UniRef100_UPI000F7ACB4C QL . IRALT VSHLTALYIH A FL P VLSAYCA . V . DS . AAMGA . GVCYIYLLK . ND
UniRef100_UPI000F7AFBE3 QL . IRALT LSHLTALYIH A FL P VLSAFCA . T . DS . AAMGA . ATGSIYLLT . ND
UniRef100_UPI000F8EDFB2 EL . YRALV FANLLTLYVK S GI G KLSAYCG . V . VS . AGIVS . VTGIAFLK . G
UniRef100_UPI000FD68C51 QL . IRAVA LSHLVTIYHK S KF G RLSALCG . V . TV . SGTGA . SCGITYLLG . GKG
UniRef100_UPI000FDD8619 QL . AARLM LSHLSAIYIH H QLP RLSALCA . A . TT . ASMGA . AAGMVLLD . GR
UniRef100_UPI001012BBEA KV . KKAIL LSMLTITYYK S YTG VLTPTIC . AGST . ASAGV . SAGIYVLLK . GN
UniRef100_UPI00101DE188 DL . VKALA LSHIINSYIK F YIG RLSALCG . CGVA . AATGA . SVAIWLMG . GNK
UniRef100_UPI001021529F QM . YRGLI LASLVTIYHK T FIG RLSAYCG . A . VS . AACGS . GAALTLYLK . G
UniRef100_UPI00102897E6 KR . IRALF LSHLMATFIH S KLP KLSALCA . V . TT . AAMGS . CAGIYLLT . NK
UniRef100_UPI00102803B8 EL . IRALV LANLTAIRIK Q SIG YLSAYCG . A . VC . AGCGA . AAGVAYLH . G
UniRef100_UPI00102F89E5 RL . IRALL ISNLIAYVQK A EIG RLSAYCG . A . VS . AATAS . VVGIAWLD . S
UniRef100_UPI001030090E EM . LRAVT LSDLTAIYHK R FIG ELSAFCG . A . VT . VATGA . GAACVYLR . G
UniRef100_UPI0010300BE6 KL . YRALV LSNLLAIHQK S TIG RLSAYCG . A . IN . AGAAA . GCGIAYLE . G
UniRef100_UPI0010309D70 RL . YRALT LSNLTAIYHK E GI G RLSAYCG . A . VS . AGASA . GAGIAYLL . G
UniRef100_UPI001030B3CB AL . YRALL ISDLVTIYQK V GI G RLSAYCG . A . VS . AGVGA . GAGIAYLL . G
UniRef100_UPI001030BBEB KL . VKALA LSHVINCXYIK S YIG RLSALCG . CAVA . AGTGA . SAAITWLMG . GSY
UniRef100_UPI0010317AA6 KL . YRALT LSNLLSIHLK M GIG KLSAYCG . A . VS . AACGC . GAAISYLY . G
UniRef100_UPI0010318F6C LL . LRATA LSYLVTITLKG Q RIG RHSVCMCA . CVVA . ASEGV . AAGTALLK . GGI
UniRef100_UPI0010321B14 DL . YRALI FSNLISLYIK S EVG KLSAYCG . V . VS . ASAS . ISSIAFIN . N
UniRef100_UPI0010477C7A RL . VRAVF FAHMINRYIK A YTG KLSAMCG . CAIA . AGIGA . SGGITWLLG . GND
UniRef100_UPI001047AA39 DL . AKALA LSHIITISYVK K YIG RLSNLCG . CS LA . ASIGS . GSAIYLLS . GRD
UniRef100_UPI0010632499 LL . NRALF LSHLVAIYIH N KLP RLSALCA . V . ST . ASIGS . FAGIAWLLS . ED
UniRef100_UPI001073345B RL . AARLM LSHLGAIYIH N QLP RLSALCA . A . TT . AAMGA . AAGMAWLLD . DR
UniRef100_UPI0010E59F1D SL . FRALI LSNLIAIYEH S FIG KLSAYCG . V . VC . ASSGA . AAIITFLK . G
UniRef100_UPI0010FEA622 IL . YRSLI FANLIGLYIK Q GIG KLSAYCG . V . VA . ASAS . MCGIAMLO . G
UniRef100_UPI0010FF47EC KL . AARLV LSNLIAIHQK K YLG RLSALCG . C . VV . ASAGA . SCGITYLLG . GQ
UniRef100_UPI00110640D9 KL . YRSLV VSNLVAIHQK Y YIG SLSAYCG . A . VS . AACGA . GAGITMYM . G
UniRef100_UPI0011069AFD EL . LRALC VSNLTAQDQK R YIG PLSAYCG . A . VC . AAAGA . GAGITYLC . G
UniRef100_UPI0011070C3B KM . YRALA LSNLVAIHQK R CIG TLSAYCG . A . VS . AGGAA . GAGIAYLH . G
UniRef100_UPI001107153E DL . LGRIA LSYLTAISI H RIG KAPSMCS . CEVA . AALGI . AAGATLMRG . GTY
UniRef100_UPI001158928E QL . AARLA LSHLVAIYIH C KLP RLSALCA . A . TT . AAMGA . ASGILWLMN . GS
UniRef100_UPI0011589DBD KL . VRALI LANLTAIHIK S YLG RLSALCG . C . VV . ASSGA . SAGIYVLLG . GN
UniRef100_UPI00115D02D5 QL . AARLA LSHLVAIYIH C KLP RLSALCA . T . TT . AGMGA . AAGIYLLM . GS
UniRef100_UPI001178C98E KL . YRAVV LSDLTIYHK T GIG RLSAYCG . A . VS . AGAGS . GAGIAYLY . G
UniRef100_UPI001183AA94 LI . AESVA FSHLVTGYVK T YTG RLTPICG . CSVA . AGAGA . AAGMVRLG . GT
UniRef100_UPI00119CAB58 KL . YRALI FSNLIGLYQK Q RIG KLSAYCG . V . VS . ASAS . VCGIGFLQ . D
UniRef100_UPI0011A1EBCE AL . AARLI LSHLMATFIH S QLP ALSALCA . A . TT . AAMGA . AAGMAWLF . PR
UniRef100_UPI0011A474CD RM . IRAVA LSHLTIYHK S KF G RLSALCG . V . TT . AGMGA . SAGIYVLL . GGL
UniRef100_UPI0011A6BE87 RL . LRAAA LSDLVAIHVK S YIG ALSAFCG . A . VC . AACGA . GAAITWMA . G
UniRef100_UPI0011C3E3AE EL . IRLGF VSHLTIYHK T NVG RLSAYCG . A . IC . AASGV . AALITFLH . G
UniRef100_UPI0011C7A661 NL . LRATA LSYLITMYIK E YSG RLSAFCG . CAIA . AGTGM . ACALVFMKN . GTI
UniRef100_UPI0011C7B69A SL . VRALI MSHLTAIHLK H HLG RLSALCG . A . LL . AATGS . SCGMVLMG . GG
UniRef100_UPI0011C9D6B6 KL . IRAMV LANLISIHQK R FIG NLSAYCG . A . TS . AATAA . AGCVAYLY . D
UniRef100_UPI0011C9F067 QT . IRALT LSHLTVIYHK Q SLG RLSALCG . C . VV . AATGS . SCGIAYLLM . GG
UniRef100_UPI0011CBAB3A TV . LKAIA LSHVITGYVK A YTG RLSAVCG . CSVA . AGAGA . TAGITYLLG . GT
UniRef100_UPI0011CC227F RL . AKALA LSHLTIAYVK N FTG RLSAVCG . CGVA . ASTGA . TAGISWLM . GDI
UniRef100_UPI0011CC5522 EI . RRAVA FSHMVTIFVK S YLG ALSPICG . CGVA . AGVGC . AAGLTFLRK . GT
UniRef100_UPI0011DDB73B KL . CRALI VSNLISIHQK Y YIG KLSAFCG . A . VS . AGCS . GAAITYMH . G
UniRef100_UPI0011DDBD5E ET . VRALM LSHLVVIYIK Q TLG RLSALCG . C . VV . AATGS . SCGIVSLMG . GG
UniRef100_UPI0011DE2D02 KM . LRAVV FSNMTIYVK S KLG KLSAYCG . A . VS . AACAS . GAAITYML . G
UniRef100_UPI001243264B IL . VRAVA LSDLTIYHK S YIG RLSALCG . A . IV . AAIGA . SCAIVYMLG . GD
UniRef100_UPI00124490F0 SV . LEAIG LSHIITAYVK A HTG RLSAVCG . CSVA . AGAGA . AAGITYLLG . GT
UniRef100_UPI0012470AD1 TK . YRALI ISNLTITHLK T GIG RLSAYCG . A . VS . AGCS . GAAIAYLY . G
UniRef100_UPI001248AE0F PL . AARLI MSHLTAIYHK H YLG RLSALCG . A . VL . AATGA . SCGMVLMG . GG
UniRef100_UPI00125871DF KL . AKALA LSHIITAYIK S HTG KLTALCG . CAVA . AATGA . SASIVWLM . GT
UniRef100_UPI001258984B KL . AKAIA MSHIINSYIK N YIG RLSVLCG . CGVS . AGTGA . AVAITWLM . GSI
UniRef100_UPI00125F767C AM . LRALA FSNLITVYIK S FTG TLSAMCG . CGVA . AGIGA . CAGVSYMMG . AS
UniRef100_UPI00128B840A KL . LRAIA LSLITVYIK S YMG RISPLCG . AGIA . ASTGA . GAGITYLSG . GN
UniRef100_UPI00128BB528 KL . LRALA LALLITMYIK S FVG QLSALCG . V . LL . STAGA . ACGITYMG . GT
UniRef100_UPI00129AC328 QL . TRALI LSHLIAIHQK S HLN VLSALCA . A . TT . AGTGA . SAAIYLLH . DKEK
UniRef100_UPI0012AB7299 DL . AARLV ISDLVTHMK E YMG RLSPLCG . SGIA . GGTGS . CCGITYLQ . GG
UniRef100_UPI0012ABE8FD QM . LRATA ISYLVMTYMK E FSG KLSAFCG . CGIA . GGTGL . ACALAYLMG . GDE
UniRef100_UPI0012ADCC21 TK . LRALA LGLLISIHMK S YVG QLSATCG . V . LL . STSGA . ACAITYMMG . GE
UniRef100_UPI0012AF4322 IL . LRAAA LSYLITMYIK E YSG KLSAFCG . CGIA . AGTGM . ACALAFMMN . ADE
UniRef100_UPI0012AF8FD9 KM . LKAVA LGDLLSYIN A KIG KLVAMCT . CVAA . ASTAA . SVSMTWLMG . GD
UniRef100_UPI0012B1F23C AL . LRATA LSYLVCMYIK E YSG KLSAFCG . CAIA . AGTGT . ACGLTMLRG . GGI
UniRef100_UPI0012B202BF KI . IRSIT LSHLVTIYVK S YIG SLSPVCG . CGVA . AGVGC . AAGLTFFMG . GN
UniRef100_UPI0012B20D78 DL . VRAVV LSDLTAVHVK Y FIG ELSAFCG . A . VS . ASCGA . GAGICYLR . G
UniRef100_UPI0012B29F2C KK . YRALT LSNLTAIHQK T FIG RLSAYCG . A . VS . AGAGA . GAGIAYLC . G
UniRef100_UPI0012B2C833 KL . YRALV LSNLVTIYHK T GIG RLSAYCG . A . VS . AGCS . GAGIAYLH . G
UniRef100_UPI0012B2DDAA MT . IRALV LSNLLAIYQK Y RIG RLSAYCG . A . VS . AAAGA . GAGITYLY . G
UniRef100_UPI0012B2EB59 KI . IRGVA ISCLITVYIR Q WVS IVSPLCG . T . SL . AAIGA . GAGITYLG . GPI
UniRef100_UPI0012B35B19 ET . YRALA LSNLIAIHQK T GIG RLSAYCG . A . VS . AGAAA . GAGIAYLC . G
UniRef100_UPI0012B366A0 DL . YRALI FSNLISLYIK D KIG KLSAYCG . V . VS . ASSAV . FSSIAFIK . G
UniRef100_UPI0012B3DC24 KL . IRAIF YGHIINKFVK S YVG KLSALCG . CAIS . AGVGA . SAAITWMLG . GND
UniRef100_UPI0012B3FC5E EV . LRALA LSNLVAIHQK K YIG PLSAYCG . A . VS . ASAGA . SAGIAYLM . G
UniRef100_UPI0012B4284B EM . IRLGV FADLVAIHLK K YIG DLSAYCG . A . TC . AGCAA . VAGIAFIE . G
UniRef100_UPI0012B42F45 EL . CRATA LSYLICMYIK E YSG RLSAFCG . CAIA . AGSGM . ACGLVFMNG . GGV
UniRef100_UPI0012B4B74C KL . YRALV VSNLVAIHQK K YIG SLSAYCG . A . VS . AACGA . GAGITYLY . G
UniRef100_UPI0012B59954 TL . IRALA LSHMMAIYIH S KLP NLSALCA . V . TT . ASMGA . AAGMTWLLT . KN
UniRef100_UPI0012B59A5D QL . YRALL LSNLMTLHEK E GIG RLSAYCG . A . VS . AGAGA . GAGIAWLH . G
UniRef100_UPI0012BA6B36 SL . YRALI LSNLIAIYEK F WIG KLSAYCG . V . VC . ASSGA . AAGITWLS . Q
UniRef100_UPI0012BB2EF8 LL . SRALA VAHYTNMYLR A YSG KLSPLCG . A . VT . ATAGV . AAASWLLG . GSR
UniRef100_UPI0012BB69D0 RL . LRACA LSNLVAIYIK S KF G VLSALCG . A . VV . ASTGV . ASAVWLRG . GGL
UniRef100_UPI0012BB73BB QL . IRALI LSHLSAIYIK S HLN MLSALCG . A . TT . AAGS . SVAITWLLG . GN
UniRef100_UPI0012BBCC85 AL . VRAVT FSNMMAVYIK A KF G RLSALCG . A . TC . AGMGV . ACGVWLRG . GGL
UniRef100_UPI0012BC4B69 VR . QRALA ITSVLAIYVK A HAG RVSSYCG . CAIA . PGAGV . AAASVLEG . GDI
UniRef100_UPI0012BD8E78 LK . YRSLV FANLIGLYIK Q GIG KLSAYCG . V . VS . AAAAS . VCGIAFAK . E
UniRef100_UPI0012BD958B RR . YRALA LANVLAIYIK H DIG RLSAYCG . V . VS . AASAT . AAGIAYLT . D
UniRef100_UPI0012C524A0 KL . YRSLI FANLIGLYIK E GIG ELSAFCG . V . VS . AAAAS . ICGISFMK . D
UniRef100_UPI0012EE9FA7 RM . LRALT LSNLIAIYIK S KF G RLSALCG . A . TV . AATGA . ACGITYLMG . GDL
UniRef100_V2Y2N1 KL . YRALA LSNLTAIYHQK S FIG TLSAYCG . A . VS . AGVGS . GAGIAYLQ . G

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|-------------------------|--------|---|-----|------|------|-----|---|---|---|-----|---|---|---|--------|--------|--------|-----|------|------|------|-----|-----|---|---|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|
| UniRef100_V4JGF5 |T | L | ..L | KAIG | ..LS | H | I | I | T | A | Y | V | K |A | ... | HT | G | | R | L | S | A | V | C | G | ..CA | V | A | ..A | G | A | G | A | ..T | A | G | I | T | Y | L | V | G | ..G | N | .. | | | | |
| UniRef100_V6IYT6 |Q | L | ..Y | RAVC | ..LS | D | L | V | T | I | Y | Q | K |M | ... | GI | G | | R | L | S | A | Y | C | G | ..A | V | S | ..A | G | C | G | A | ..G | A | G | I | A | Y | L | N | ..G | ... | | | | | | |
| UniRef100_V7IAR5 |K | L | ..Y | RALI | ..V | S | N | L | M | A | I | H | Q | K |K | ... | YI | G | | K | L | S | A | F | C | G | ..V | V | S | ..A | S | A | A | A | ..G | S | G | V | G | Y | L | M | ..D | ... | | | | | |
| UniRef100_W1IUK4 |Q | L | ..A | RALI | ..L | S | H | L | M | A | I | Y | I | H |H | ... | KL | P | | S | L | S | A | L | C | A | ..A | T | T | ..A | S | M | G | A | ..A | A | G | I | A | W | L | I | E | ..E | H | ... | | | |
| UniRef100_W2BZQ9 |K | L | ..Y | RGLA | ..V | S | N | L | V | S | I | Y | I | K |K | ... | KI | G | | S | L | S | A | F | C | G | ..A | S | S | ..A | A | A | A | S | ..G | A | G | I | A | F | L | K | ..G | ... | | | | | |
| UniRef100_W8T7L5 |K | L | ..A | KALA | ..I | S | H | L | V | I | A | Y | V | K |N | ... | YT | G | | R | L | S | A | V | C | G | ..C | G | V | A | ..A | S | V | G | S | ..T | A | A | I | A | W | L | M | D | ..L | G | Y | ... | |
| UniRef100_X1EDB0 |R | L | ..I | RALA | ..L | T | N | L | I | T | I | F | I | K |S | ... | YT | G | | A | L | S | A | M | C | G | ..C | G | V | A | ..A | G | I | G | A | ..S | A | G | V | V | Y | L | L | G | ..G | N | ... | | |
| UniRef100_X6QCS0 |Q | L | ..A | RALM | ..L | S | H | L | M | A | I | Y | I | H |N | ... | QL | P | | A | L | S | A | L | C | A | ..A | T | T | ..A | A | M | G | A | ..A | A | G | I | A | W | L | L | E | ..A | R | ... | | | |
| UniRef100_A0A0J5P7T7 |R | L | ..I | RALF | ..L | S | H | T | I | A | I | Y | I | H |S | ... | KL | P | | K | L | S | A | L | C | A | ..V | T | T | ..A | A | M | G | S | ..A | A | G | M | A | Y | L | L | N | ..G | N | ... | | | |
| UniRef100_A0A2U8FHH0 |Q | Q | ..I | RALF | ..L | S | H | L | M | A | I | Y | I | H |S | ... | KL | P | | K | L | S | A | L | C | A | ..V | T | T | ..A | A | M | G | S | ..C | A | G | V | A | W | L | L | T | ..G | K | ... | | | |
| UniRef100_A0A448W3N0 |Q | L | ..I | RALF | ..L | S | H | T | I | A | I | Y | I | H |S | ... | KL | P | | K | L | S | A | L | C | A | ..V | T | T | ..A | A | M | G | S | ..A | S | G | M | A | Y | L | L | G | ..G | N | ... | | | |
| UniRef100_A0A3N4W6L3 |Q | L | ..I | RALF | ..L | S | H | T | I | A | I | Y | I | H |S | ... | KL | P | | K | L | S | A | L | C | A | ..V | T | T | ..A | A | M | G | S | ..A | A | G | M | A | Y | L | L | N | ..G | N | ... | | | |
| UniRef100_A0A3R8MG26 |Q | L | ..I | RALF | ..L | S | H | T | I | A | I | Y | I | H |S | ... | KL | P | | K | L | S | A | L | C | A | ..V | T | T | ..A | A | M | G | S | ..A | A | G | M | A | Y | L | L | G | ..G | D | ... | | | |
| UniRef100_UPI0004ED7B54 |Q | L | ..I | RALF | ..L | S | H | T | I | A | I | Y | I | H |S | ... | KL | P | | K | L | S | A | L | C | A | ..V | T | T | ..A | A | M | S | S | ..A | A | G | M | A | Y | L | L | K | ..G | N | ... | | | |
| UniRef100_A0A1C5QX57 |S | L | ..Y | RALV | ..F | S | N | L | L | T | Y | Y | Q | K |Y | ... | YI | G | | K | L | S | A | F | C | G | ..A | V | S | ..A | S | C | A | A | ..G | A | A | I | T | Y | M | V | ..G | ... | | | | | |
| UniRef100_A0A448W3N0 |S | L | ..Y | RALV | ..F | S | N | L | L | T | Y | Y | Q | K |Q | ... | YI | G | | K | L | S | A | F | C | G | ..A | V | S | ..A | S | C | A | A | ..G | A | A | I | T | Y | M | V | ..G | ... | | | | | |
| UniRef100_G6C136 |K | N | E | V | I | E | V | A | K | ..N | S | M | E | A | T | K | N | I | I | ..A | ..A | ..T | K | G | ..R | A | S | ..Y | L | G | ..E | R | S | V | ..G | H | I | D | P | ..G | A | M | S | Y | L | ..G | ... | | |
| UniRef100_UPI0007B3E538 |R | L | ..A | RALM | ..L | S | H | L | S | A | I | Y | I | H |Y | ... | QL | P | | R | L | S | A | L | C | A | ..A | T | T | ..A | G | M | G | A | ..A | A | G | M | A | Y | L | L | G | ..G | D | ... | | | |
| UniRef100_A0A564VK10 |M | L | ..Y | RALI | ..F | A | N | L | V | S | I | Y | I | K |R | ... | GI | G | | K | L | S | A | Y | C | G | ..A | V | N | ..A | G | C | A | A | ..V | C | G | I | A | Y | L | D | ..G | ... | | | | | |
| UniRef100_A0A1F7RGL9 |L | L | ..A | EAIT | ..L | A | H | L | I | T | A | Y | L | T |S | ... | YI | G | | V | L | S | P | L | C | G | ..S | A | A | K | G | G | I | G | A | ..A | A | G | M | A | Y | Y | M | G | ..A | D | E | ... | |
| UniRef100_A0A1F7S1R1 |L | L | ..S | EAIT | ..L | A | H | L | I | T | A | Y | L | T |A | ... | HI | G | | L | S | P | L | C | S | ..S | S | A | K | G | G | I | G | A | ..A | A | G | M | A | Y | Y | M | G | ..A | D | E | ... | | |
| UniRef100_A0A3M1RZ09 |L | L | ..A | ESLA | ..L | G | H | L | I | T | A | Y | L | T |E | ... | FI | G | | I | L | S | P | L | C | G | ..S | S | A | K | G | G | I | G | A | ..A | A | G | I | T | R | I | L | G | ..G | N | D | ... | |
| UniRef100_A0A5C9EBK1 |K | L | ..V | EAI | G | ..L | T | H | L | L | A | N | F | V | S |K | ... | YS | G | | N | L | S | A | L | C | G | ..C | I | I | K | ..A | G | I | G | L | ..A | A | G | I | T | Y | L | L | ..E | P | E | K | ... |
| UniRef100_A0A358LCV7 |K | I | ..I | RAVT | ..L | S | N | L | I | N | I | Y | L | D |Y | ... | RS | H | ..E | Y | A | ..H | L | S | P | E | C | Y | ..C | G | S | V | ..A | P | S | A | ..A | C | G | V | A | Y | L | R | G | ..G | S | ... | |
| UniRef100_A0A525D9V7 |E | I | ..M | RAVA | ..L | S | N | L | M | N | I | Y | L | D |Y | ... | RS | N | ..E | Y | A | ..H | L | S | P | M | C | Y | ..C | S | G | V | ..A | P | A | A | A | ..A | S | G | V | A | F | L | H | G | ..A | G | ... |
| UniRef100_R6ICA1 |D | G | ..Y | RAVA | ..F | A | L | L | M | N | T | Y | M | K |Y | ... | LS | K | ..E | Y | V | Y | M | P | P | T | C | ..S | C | A | T | T | ..S | A | P | A | A | ..A | A | G | V | A | F | L | H | G | ..L | T | ... |
| UniRef100_UPI0009321914 |A | V | ..L | RAVA | ..F | S | N | L | V | N | I | Y | L | D |Y | ... | KS | N | ..E | Y | A | ..H | L | S | P | M | C | Y | ..C | A | G | V | ..A | P | A | A | G | ..V | S | G | V | A | Y | L | H | G | ..H | N | ... |
| UniRef100_UPI0009ABF8C2 |K | T | ..M | RAVA | ..F | G | Y | L | I | N | V | F | L | K |Y | ... | NT | K | ..E | L | A | Y | M | G | P | M | C | Y | ..C | A | S | T | ..A | S | Q | A | A | ..M | A | G | V | A | F | L | H | N | ..M | S | ... |
| UniRef100_A0A0941IH7 |E | K | ..Q | KLIV | ..L | S | F | L | T | S | V | Y | V | K |Q | ... | EM | N | ..I | V | T | V | L | C | G | ..T | G | H | A | ..T | G | C | S | A | ..A | A | V | T | A | Y | I | O | E | ..G | T | G | ... | | |
| UniRef100_A0A2A1ZQZ3 |I | R | ..Q | KLVV | ..L | S | F | L | T | S | V | Y | V | K |Q | ... | K | M | S | ..I | V | T | V | L | C | G | ..T | G | H | A | ..T | G | C | S | T | ..A | A | V | T | A | Y | I | R | K | ..G | S | V | ... | |
| UniRef100_A0A2N1PXM8 |M | K | ..K | KLIV | ..L | S | F | L | T | S | V | Y | V | K |Q | ... | E | M | N | ..V | V | T | V | L | C | G | ..T | G | H | A | ..T | G | S | S | T | ..A | A | C | Y | T | Y | A | K | G | ..G | T | L | ... | |
| UniRef100_A0A318Y312 |E | R | ..Q | TAIC | ..L | S | V | L | T | A | I | Y | L | K |S | ... | N | M | N | ..R | L | T | V | M | C | G | ..T | A | V | A | ..G | A | A | ..A | A | T | A | Y | L | L | G | ..G | G | L | ... | | | | |
| UniRef100_A0A369BEE9 |K | R | ..A | QAQC | ..L | S | M | M | T | A | I | Y | I | K |G | ... | Q | M | N | ..R | L | T | V | M | C | G | ..T | A | I | A | ..G | A | A | ..A | A | T | A | Y | L | M | G | ..G | G | C | ... | | | | |
| UniRef100_A0A4R1RC12 |R | R | ..L | RALA | ..L | S | V | L | T | A | I | Y | I | K |S | ... | F | M | D | ..R | T | T | V | M | C | G | ..T | A | M | A | ..G | A | A | ..A | A | Y | L | F | G | ..G | D | R | ... | | | | | | |
| UniRef100_A0A4U7JIT4 |E | R | ..Q | TAIC | ..I | S | I | L | T | S | I | Y | I | K |S | ... | Q | M | N | ..R | L | T | V | M | C | G | ..T | A | V | A | ..G | A | A | ..A | A | I | T | Y | L | L | G | ..G | G | L | ... | | | | |
| UniRef100_S0FVB5 |E | R | ..E | RAIY | ..L | S | V | L | I | A | A | Y | I | K |S | ... | Q | M | N | ..R | L | T | V | M | C | G | ..T | A | V | A | ..G | A | A | ..A | A | T | A | Y | L | M | G | ..G | G | C | ... | | | | |
| UniRef100_UPI0009DD728D |E | T | ..E | KLIV | ..L | S | F | L | T | S | V | Y | V | K |Q | ... | E | M | N | ..V | V | T | V | L | C | G | ..T | G | H | A | ..T | G | C | S | S | ..A | A | V | T | A | Y | I | K | N | ..G | T | R | ... | |
| UniRef100_G5QO27 |R | L | ..A | RALS | ..A | D | D | E | R | L | A | R | A | R | ..A | N | V | I | A | F | E | R | Y | L | S | P | ..S | A | S | A | F | V | G | ..A | V | R | ..G | N | Y | ..G | G | D | G | R | G | ..G | ... | G | ... |
| UniRef100_A0A316DKY0 |I | I | ..S | KALI | ..L | S | C | L | I | T | G | F | I | K |H | ... | K | M | G | ..K | L | I | P | L | C | G | ..V | F | Y | A | ..A | G | V | ..G | A | S | V | G | L | Y | F | L | M | N | ..G | F | ... | | |
| UniRef100_A0A432QVG1 |K | E | ..I | RAVL | ..M | S | V | L | L | T | N | L | I | T |S | ... | R | F | G | ..E | V | S | S | V | C | G | ..A | Q | Y | A | ..A | G | A | G | V | ..I | G | G | I | L | Y | L | ..K | E | R | ... | | | |
| UniRef100_A0A5D0MJ87 |K | K | ..V | KSAI | ..L | S | C | F | I | A | G | I | I | S |E | ... | K | F | G | ..T | V | S | S | I | C | G | ..C | V | Y | A | ..A | V | G | V | ..I | A | G | S | L | Y | L | ..E | N | K | ... | | | | |
| UniRef100_UPI00041EE289 |T | E | ..I | KAVL | ..V | A | V | L | L | T | A | L | I | T |S | ... | R | F | G | ..E | V | S | S | V | C | G | ..A | Q | Y | A | ..A | G | A | G | I | ..I | G | G | V | L | Y | L | ..R | D | E | ... | | | |
| UniRef100_A0A1I4HXL9 |Q | L | ..A | RAIA | ..I | S | L | G | I | T | I | Y | I | K |V | ... | R | T | D | ..H | L | P | T | L | Y | G | ..C | P | V | A | ..A | V | S | G | A | ..S | A | A | I | T | W | L | R | N | ..G | D | ... | | |
| UniRef100_A0A3M1SS97 |A | L | ..A | RALA | ..T | S | H | L | V | G | S | Y | V | R |S | ... | F | T | G | ..V | L | S | P | L | C | N | ..A | V | Q | A | ..A | S | A | G | ..A | A | G | C | V | R | L | L | G | ..G | G | ... | | | |
| UniRef100_A0A097SS76 |V | F | ..V | RGLC | ..I | A | N | L | I | T | W | K | V | K |Y | ... | A | I | G | ..A | L | S | S | M | C | G | ..S | V | | | | | | | | | | | | | | | | | | | | | |

| | 310 | 320 | 330 | 340 | 350 |
|--------------------------------|---|-----|-----|-----|---------------|
| 151906 | ... | ... | ... | ... | ... |
| sp\|A6VH54\|CYDE_METM7 | ...FDR\|TEE...S\|K\|SFTAN\|LP\|GIVCDGGKIG\|CALKTAS\|GVFAIYLSLF\|SK\|... | ... | ... | ... | ...VPYTN |
| sp\|A4FW56\|CYDE_METM5 | ...NLKK\|LNS...A\|ARAFTAN\|LP\|GIICDGGKVG\|CALKLAS\|GCFAYSSSLY\|VE\|... | ... | ... | ... | ...ISHEN |
| tr\|A0A21LCBR0\|A0A21LCBR0_METMI | ...NLKK\|LDS...S\|ARTFTAN\|LP\|GIICDGGKVG\|CALKLAS\|GCFAYSSSLY\|LD\|... | ... | ... | ... | ...ISYEN |
| tr\|D5VSW9\|D5VSW9_METIM | ...FDR\|VDE...A\|VKTYSN\|L\|AGLVCDGGKTE\|CSLKIAS\|GVFSSYLAAN\|SC\|... | ... | ... | ... | ...VKGFG |
| tr\|C7P8X1\|C7P8X1_METFA | ...TDK\|LEE...S\|K\|SFTAN\|LP\|GIVCDGGKIG\|CALKTAS\|GVFAIYLSLF\|SK\|... | ... | ... | ... | ...VPYTN |
| tr\|F6BCV2\|F6BCV2_METIK | ...DTNK\|ITE...A\|VKSFTAN\|LP\|GIICDGGKIG\|CALKLAS\|GCFAYSSSLY\|AE\|... | ... | ... | ... | ...VPPNN |
| tr\|C9RFZ5\|C9RFZ5_METVM | ...ENRI\|TEE...S\|K\|SFTAN\|LP\|GIVCDGGKIG\|CALKTAS\|GVFSIYLSLF\|SN\|... | ... | ... | ... | ...VPYNN |
| tr\|H1KZQ8\|H1KZQ8_9EURY | ...NVDK\|ITE...A\|VKSFTGN\|LP\|GIICDGGKVG\|CALKLAS\|GCFAYSSSLY\|VE\|... | ... | ... | ... | ...IPSN |
| tr\|N6VPY2\|N6VPY2_9EURY | ...D\|IEK...A\|MKSF\|LANIT\|GIICDGGKPS\|CSLKIAS\|GVFSAYLSLF\|YE\|... | ... | ... | ... | ...TKDY |
| tr\|U5Q566\|U5Q566_9BACT | ...Y\|DOV\|CF...A\|K\|NM\|IGNIT\|GMVCDGAKVG\|CALKVAS\|GVSSAVQSAI\|LAME\|... | ... | ... | ... | ...G\|CISEND |
| tr\|A0A2M7BGU7\|A0A2M7BGU7_9DELT | ...V\|SO\|IEA...Q\|INN\|MV\|GAM\|GIICDGGKSG\|CAFKALMA\|VGLALDSSY\|LSME\|... | ... | ... | ... | ...N\|VRIPSGD |
| tr\|A0A1C7HIT9\|A0A1C7HIT9_9BURK | ...Y\|EEV\|CA...A\|K\|NM\|IAN\|L\|AGMLCDGAKP\|CSLKISS\|GVSTAMMSAL\|LAMN\|... | ... | ... | ... | ...E\|H\|CVTKLE |
| tr\|R5API9\|R5API9_9BACT | ...F\|EKV\|VA...A\|K\|NM\|IAN\|L\|TGMICDGA\|PS\|CAMKLAS\|GVSTAMMSAM\|MAME\|... | ... | ... | ... | ...G\|QSVQCQLE |
| tr\|R7RUE6\|R7RUE6_9CLOT | ...D\|KEFN...A\|T\|K\|NMV\|GDI\|TGMVCDGAKP\|CAIKLST\|AASAYKAAI\|LAVR\|... | ... | ... | ... | ...G\|VSVPCGN |
| tr\|A0A250LQ15\|A0A250LQ15_FUSVA | ...F\|S\|P\|A\|Q\|IDS...A\|T\|T\|LAT\|L\|SGVCDGAKPS\|CATKTAS\|GVAAFDGGY\|ASSK\|... | ... | ... | ... | ...N\|RKFEFGE |
| tr\|U2LETO\|U2LETO_TRESO | ...GD\|E\|D\|AVAR...A\|T\|T\|NT\|LAD\|VGGIVCDGAKP\|CAAKIAS\|AVDA\|LGLFE\|LGSH\|... | ... | ... | ... | ...EG\|VAFKSGE |
| tr\|A0A084JI14\|A0A084JI14_9CLOT | ...L\|CA\|INK...A\|K\|NM\|IAN\|L\|AGMLCDGAKP\|CAIKLST\|AVGTSLCAA\|LALE\|... | ... | ... | ... | ...G\|VEVSSH |
| tr\|A0A2G2ZHH3\|A0A2G2ZHH3_9PROT | ...AS\|Y\|D\|TVAN...S\|S\|NN\|LGN\|VSGIICDGA\|KAS\|CATKIAT\|GLYAFDSSM\|LALN\|... | ... | ... | ... | ...Q\|KYLQDGE |
| tr\|A0A1V5HI15\|A0A1V5HI15_9BACT | ...Y\|A\|QVTF...A\|K\|NM\|IAN\|L\|TGMICDGA\|PS\|CALKTAS\|GVSTAMMSAL\|MAIE\|... | ... | ... | ... | ...N\|RVTSQLE |
| tr\|A0A143XBT8\|A0A143XBT8_9FIRM | ...D\|K\|O\|IGY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|NVHAAVQCAN\|LALS\|... | ... | ... | ... | ...D\|ISPNETQ |
| tr\|U2BJC7\|U2BJC7_9CLOT | ...L\|G\|O\|IKR...A\|K\|NM\|IAN\|L\|VSGIICDGA\|KAS\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|YGAGEL |
| tr\|X8IRIO\|X8IRIO_9FIRM | ...D\|DMRR...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|CISENMH |
| tr\|A0A1E3AMK7\|A0A1E3AMK7_9FIRM | ...L\|K\|O\|IKN...A\|K\|NM\|IAN\|L\|VSGIICDGA\|KAS\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|H\|AGGLD |
| tr\|A0A2T0B041\|A0A2T0B041_9CLOT | ...I\|K\|O\|ICG...A\|K\|NM\|IAN\|L\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|H\|FVPSND |
| tr\|A0A173YXC3\|A0A173YXC3_9CLOT | ...L\|E\|N\|IKR...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|H\|ISPSK |
| tr\|A0A133XRP4\|A0A133XRP4_9BACT | ...K\|L\|O\|ITY...A\|K\|NM\|VGNIT\|GMICDGA\|KPS\|CSMKVSS\|GVSSAMMSAL\|LAMK\|... | ... | ... | ... | ...N\|QVVTQLE |
| tr\|I3YI50\|I3YI50_ALIFI | ...Y\|Q\|VAA...A\|K\|NM\|IAN\|L\|TGMICDGA\|KPS\|CSMKLTS\|GVSTAMMSAL\|MAMD\|... | ... | ... | ... | ...G\|H\|CVTPVE |
| tr\|A0A2V1IKY6\|A0A2V1IKY6_9BACT | ...F\|A\|EVCA...A\|K\|NM\|IAN\|L\|TGMICDGA\|KPS\|CALKTSS\|GVSTAMMSAM\|LAMN\|... | ... | ... | ... | ...G\|KCVTSTE |
| tr\|A0A0H5Q1R2\|A0A0H5Q1R2_9ZZZZ | ...D\|E\|O\|IGN...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|VVLQST |
| tr\|A0A1M6V4H0\|A0A1M6V4H0_9FIRM | ...D\|E\|O\|IGH...A\|V\|RN\|MTGT\|TGMVCDGKVG\|CAMKVSI\|SSTAILCAL\|TAID\|... | ... | ... | ... | ...N\|SALRPD |
| tr\|A0A1Y4TVT2\|A0A1Y4TVT2_9FIRM | ...K\|E\|MAH...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|YIADVDH |
| tr\|A0A0S6U6Q0\|A0A0S6U6Q0_CLOBO | ...D\|D\|O\|IAN...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|VALQPSD |
| tr\|A0A1Y4TNG6\|A0A1Y4TNG6_9FIRM | ...D\|A\|Q\|MG...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|VUVNAT |
| tr\|R9M2E2\|R9M2E2_9FIRM | ...D\|E\|O\|IGG...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|VVLQST |
| tr\|A0A174KZB3\|A0A174KZB3_9FIRM | ...D\|E\|O\|LGY...A\|V\|RN\|MTGT\|TGMVCDGKVG\|CAMKVSI\|SSTAILCAL\|TAID\|... | ... | ... | ... | ...D\|APLRVS |
| tr\|R5BLB6\|R5BLB6_9FIRM | ...N\|E\|ELGY...A\|V\|RN\|MTGT\|TGMVCDGKVG\|CAMKVSI\|SSTAILCAL\|TAID\|... | ... | ... | ... | ...E\|APLRVS |
| tr\|N2AVU5\|N2AVU5_9CLOT | ...D\|T\|Q\|IGN...A\|V\|RN\|MTGT\|TGMVCDGKVG\|CAMKVSI\|SSTAILCAL\|TAID\|... | ... | ... | ... | ...D\|VVLQST |
| tr\|R6PEW0\|R6PEW0_9CLOT | ...K\|M\|EEE...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...E\|V\|CVAHV |
| tr\|V7I8Q4\|V7I8Q4_9CLOT | ...D\|D\|O\|IEG...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|VVISPTD |
| tr\|R6STQ3\|R6STQ3_9CLOT | ...Q\|MMAK...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|FIDDIH |
| tr\|A0A173QVX9\|A0A173QVX9_9FIRM | ...H\|AMAR...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...E\|FIDDIH |
| tr\|A0A1C6J4L2\|A0A1C6J4L2_9FIRM | ...D\|E\|O\|IGK...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|VVLQST |
| tr\|R5IV32\|R5IV32_9CLOT | ...E\|T\|MEK...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|VYIYNAH |
| tr\|U7UMR5\|U7UMR5_9FIRM | ...E\|E\|IAG...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|MSDKST |
| tr\|COD015\|COD015_9FIRM | ...D\|MMAK...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|FIDNVH |
| tr\|A0A1C5KLZ4\|A0A1C5KLZ4_9CLOT | ...D\|MMAK...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|FIDNVH |
| tr\|C5EER9\|C5EER9_9FIRM | ...A\|D\|L\|D\|E\|I\|H...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|QOFVGD |
| tr\|A0A1Y4DID9\|A0A1Y4DID9_9ACTN | ...G\|R\|A\|D\|E\|I\|H...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|QOFVGD |
| tr\|E7GPD6\|E7GPD6_CLOSY | ...E\|E\|V\|LA...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|K\|CISPEH |
| tr\|L0F518\|L0F518_DESGL | ...P\|Q\|O\|IND...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|IRASNV |
| tr\|A0A1Y4GDP2\|A0A1Y4GDP2_9BACT | ...A\|D\|V\|LND...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|IATGPT |
| tr\|M1P3B1\|M1P3B1_DESSD | ...L\|E\|L\|FDG...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|FLVSGR |
| tr\|A0A2G6FF81\|A0A2G6FF81_9DELT | ...M\|H\|L\|FEG...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|FIVSAR |
| tr\|A0A2N1RFN9\|A0A2N1RFN9_9SPIR | ...Y\|R\|M\|VQ...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|VVIDTE |
| tr\|A0A2S5CD51\|A0A2S5CD51_9ENTR | ...Y\|Q\|T\|LSM...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|SAVTGN |
| tr\|R1HF92\|R1HF92_9GAMM | ...F\|E\|O\|ISH...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|LRVPQS |
| tr\|R7JM93\|R7JM93_9BACT | ...A\|T\|O\|ITY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|KVVTSQ |
| tr\|A0A0J6CKL6\|A0A0J6CKL6_9BACT | ...K\|K\|O\|ISY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|KVVTPVE |
| tr\|A0A1T5BYL2\|A0A1T5BYL2_9BACT | ...K\|K\|L\|LSY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|KVVTSQ |
| tr\|A0A0P6X4H5\|A0A0P6X4H5_9CHLR | ...E\|T\|M\|QO...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|YIAPDGN |
| tr\|R6G801\|R6G801_9BACE | ...Y\|E\|O\|ITY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|RCVTSVE |
| tr\|A0A1M6WCW3\|A0A1M6WCW3_PRERU | ...Y\|E\|E\|RI...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|K\|CVSPA |
| tr\|A0A171AVJ8\|A0A171AVJ8_9BACT | ...R\|E\|O\|IGY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|KVVSAV |
| tr\|K4LK2M\|K4LK2M_2THEPS | ...E\|O\|IGY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|VTRIPDS |
| tr\|A0A1Y3UBV3\|A0A1Y3UBV3_9FIRM | ...E\|A\|V\|VAA...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|TAIPHNF |
| tr\|A0A1Q6GZB1\|A0A1Q6GZB1_9BACE | ...F\|E\|O\|ISA...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|KCVTSVE |
| tr\|A0A0H3J2Y7\|A0A0H3J2Y7_CLOPA | ...E\|K\|H\|IKQ...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|ISITDK |
| tr\|A0A1L4BUE7\|A0A1L4BUE7_9GAMM | ...Q\|P\|L\|E\|K\|V\|NK...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|NSVTAYD |
| tr\|A0A1Q6FRE1\|A0A1Q6FRE1_9BACT | ...Y\|E\|E\|IVM...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...H\|RCVSE |
| tr\|U2LL66\|U2LL66_TRESO | ...T\|M\|MSH...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|YIDDVH |
| tr\|R5YX82\|R5YX82_9BACE | ...Y\|E\|E\|MTY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...H\|KCVTAVE |
| tr\|A0A1W9VTS4\|A0A1W9VTS4_9BACT | ...L\|H\|H\|FA...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...E\|YVHVCE |
| tr\|A0A1I7GWW5\|A0A1I7GWW5_9PORP | ...Y\|D\|O\|ITF...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|RVVTPHE |
| tr\|A0A1Q3Q9S5\|A0A1Q3Q9S5_9BACT | ...Y\|E\|O\|VTF...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|RVVTSQ |
| tr\|A0A2V1IY57\|A0A2V1IY57_9BACT | ...Y\|R\|O\|ICH...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|TSVTSLE |
| tr\|A0A2ION3P7\|A0A2ION3P7_9CLOT | ...P\|K\|N\|R...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...H\|RSFEPGD |
| tr\|C3W9F7\|C3W9F7_FUSMR | ...E\|E\|ITN...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|YIFNVH |
| tr\|A0A0R3JRW1\|A0A0R3JRW1_9CLOT | ...Y\|E\|V\|E\|CK...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|VEVSKYD |
| tr\|A0A1E9AGA9\|A0A1E9AGA9_9FIRM | ...E\|D\|R\|D\|L\|KE...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|NSFKPGD |
| tr\|A0A1U7M087\|A0A1U7M087_9FIRM | ...E\|D\|R\|D\|L\|KE...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|NSFKSGD |
| tr\|A0A1G7ZF40\|A0A1G7ZF40_9BACT | ...Y\|E\|O\|IKN...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|TNIPCGN |
| tr\|A0A1M7SRV0\|A0A1M7SRV0_FERGO | ...H\|E\|O\|IKN...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|MNVP CGN |
| tr\|M5Q3B7\|M5Q3B7_DESAF | ...P\|R\|O\|AEA...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|AGISDRQ |
| sp\|B8DLR0\|Y1488_DESMV | ...P\|R\|O\|AEA...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|PGMTGAE |
| sp\|A1VGE6\|Y2496_DESVV | ...A\|V\|O\|AER...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|RGVQRP |
| tr\|A0A101I220\|A0A101I220_9BACT | ...P\|R\|O\|AEA...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|LKD PGDQ |
| tr\|A0A2V2G459\|A0A2V2G459_9DELT | ...A\|E\|O\|AER...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|GVRDVQ |
| tr\|A0A212JX75\|A0A212JX75_9DELT | ...A\|D\|MAER...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|GGVCFEQ |
| tr\|A0A2N1RYH9\|A0A2N1RYH9_9SPIR | ...E\|E\|MH...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...D\|TIDKLD |
| tr\|C5EMR9\|C5EMR9_9FIRM | ...H\|Q\|Q\|MG...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|TVLQPTD |
| tr\|A0A2T4TB47\|A0A2T4TB47_9FIRM | ...K\|Q\|MEY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|HIDKVDH |
| tr\|A0A1Y4R8Q8\|A0A1Y4R8Q8_9FIRM | ...A\|E\|MER...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|ISVDPVH |
| tr\|A0A1C5T2Z6\|A0A1C5T2Z6_9FIRM | ...A\|Q\|O\|TM...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|VCIDAIH |
| tr\|A0A1F7AV49\|A0A1F7AV49_9BACT | ...D\|M\|K\|L\|GH...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|FCISDSN |
| tr\|A0A1V3L349\|A0A1V3L349_9PAST | ...F\|E\|T\|ASM...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...E\|THVTGNE |
| tr\|A0A1C5V1H8\|A0A1C5V1H8_9BACE | ...Y\|K\|O\|IVY...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...E\|KCVTSVE |
| tr\|U2P4S1\|U2P4S1_9BACT | ...Y\|T\|R\|V\|CH...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|KHVTAAE |
| tr\|S0FA62\|S0FA62_9BACE | ...Y\|Q\|O\|V\|SF...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|KCVTSVE |
| tr\|A0A255SNC9\|A0A255SNC9_9BACT | ...Y\|Q\|H\|ICR...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|KCVSSAE |
| tr\|F9D2C0\|F9D2C0_PREDD | ...Y\|T\|R\|V\|CH...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...G\|EHVTAAE |
| tr\|J9G1L2\|J9G1L2_9ZZZZ | ...Y\|E\|O\|ITF...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...H\|KCVSSAE |
| tr\|A0A1V6HXD6\|A0A1V6HXD6_9BACT | ...K\|S\|Q\|ISS...A\|K\|NM\|LSD\|VSGIICDGA\|KST\|CALKIAT\|VSSAFQCSM\|LAIK\|... | ... | ... | ... | ...N\|KVVSHH |

tr|W4PHR0|W4PHR0_9BACE
sp|Q2RIL2|Y1414_MOOTA
tr|E3DR40|E3DR40_HALPG
tr|C7RDJ2|C7RDJ2_ANAPD
tr|D7N8J7|D7N8J7_9FIRM
tr|AOA101I867|AOA101I867_9BACT
tr|T0T8V8|T0T8V8_9FIRM
tr|AOA101HQH0|AOA101HQH0_9BACT
tr|AOA1M6M0R3|AOA1M6M0R3_9FIRM
tr|R5PQF5|R5PQF5_9BACT
tr|AOA0S7X2P6|AOA0S7X2P6_9BACT
tr|K1Z1W5|K1Z1W5_9ZZZZ
tr|AOA2N2Z618|AOA2N2Z618_9BACT
tr|AOA1M3CYU2|AOA1M3CYU2_9BACT
tr|S6A8J2|S6A8J2_9SPIO
tr|AOA1M4U177|AOA1M4U177_9CLOT
tr|TOPGZ2|TOPGZ2_9CLOT
tr|AOA1Q6NM25|AOA1Q6NM25_9FIRM
tr|AOA2T3KA22|AOA2T3KA22_9GAMM
tr|AOA101VYN5|AOA101VYN5_9FIRM
tr|AOA1T5IDD0|AOA1T5IDD0_9CLOT
tr|AOA1M6NZ58|AOA1M6NZ58_9FIRM
tr|AOA223ASF7|AOA223ASF7_9FIRM
tr|AOA2S6G0N4|AOA2S6G0N4_9CLOT
tr|AOA1H5VMB4|AOA1H5VMB4_9CLOT
tr|S3AAC6|S3AAC6_9FIRM
tr|AOA176K076|AOA176K076_9BACT
tr|AOA1M5TZM1|AOA1M5TZM1_9BACT
tr|AOA1H3EAS1|AOA1H3EAS1_9BACT
tr|E5YB10|E5YB10_BILWA
sp|A6LLR7|Y1007_THEM4
tr|R6LUT7|R6LUT7_9FIRM
tr|F2LVU2|F2LVU2_HIPMA
tr|AOA2N1SJ95|AOA2N1SJ95_9SPIR
tr|AOA1V5Q3C6|AOA1V5Q3C6_9BACT
tr|W4UI14|W4UI14_CUTAC
tr|AOA2X5DYA3|AOA2X5DYA3_SALET
tr|AOA0C2NJF9|AOA0C2NJF9_9VIBR
tr|G2SCC0|G2SCC0_ENTAL
tr|AOA1G6LDY3|AOA1G6LDY3_9ACTN
tr|AOA1C6LB18|AOA1C6LB18_9CLOT
tr|AOA150AAJ3|AOA150AAJ3_9BACT
tr|C5UWG8|C5UWG8_CLOBO
tr|IOGPL4|IOGPL4_SELR
tr|FOYZI4|FOYZI4_9CLOT
tr|AOA0U5HF89|AOA0U5HF89_9CLOT
tr|AOA0G4K5Q4|AOA0G4K5Q4_9SPIR
tr|MLYXC3|MLYXC3_9FIRM
tr|AOA1Y4D3A3|AOA1Y4D3A3_9BACT
tr|T1DSV6|T1DSV6_9PORP
tr|R5K3Y4|R5K3Y4_9BACE
tr|AOA0A2FDZ8|AOA0A2FDZ8_9PORP
tr|AOA0E9LTM7|AOA0E9LTM7_9BACT
tr|AOA096CTK4|AOA096CTK4_9BACT
tr|AOA1T4LDG9|AOA1T4LDG9_9PORP
tr|U6RQI6|U6RQI6_9BACE
tr|AOA2T4TUJ1|AOA2T4TUJ1_9BACT
tr|AOA1V5EBL5|AOA1V5EBL5_9DEL
tr|AOA174ES44|AOA174ES44_9BACT
tr|R5PXC6|R5PXC6_9BACT
tr|E1GXV0|E1GXV0_9BACT
tr|R6Y5C6|R6Y5C6_9BACT
tr|AOA1H5SVZ9|AOA1H5SVZ9_9BACT
tr|AOA2U0U4Y1|AOA2U0U4Y1_9BACT
tr|D1W896|D1W896_9BACT
tr|E6MQP7|E6MQP7_9BACT
tr|E4T7H0|E4T7H0_PALPW
tr|AOA133YX9|AOA133YX9_9BACT
tr|AOA0D8JEE4|AOA0D8JEE4_9BACT
tr|W4UV02|W4UV02_9BACE
tr|AOA161RAB3|AOA161RAB3_9FIRM
tr|AOA255T3U3|AOA255T3U3_9BACT
tr|AOA1C5RAF1|AOA1C5RAF1_9FIRM
tr|D9Y8N5|D9Y8N5_9BURK
tr|AOA2N4S738|AOA2N4S738_9BACT
tr|AOA16PR96|AOA16PR96_9PORP
tr|R5JFT9|R5JFT9_9BACE
tr|J9C487|J9C487_9ZZZZ
tr|AOA1M3FU28|AOA1M3FU28_9BACT
tr|AOA2R3MQS7|AOA2R3MQS7_9BACE
tr|AOA2T5BZ72|AOA2T5BZ72_9BACT
tr|F5IYA2|F5IYA2_9BACT
tr|AOA2T5BXU0|AOA2T5BXU0_9BACT
tr|AOA1V5I3Q4|AOA1V5I3Q4_9BACT
tr|AOA1M3FLX8|AOA1M3FLX8_9BACT
tr|AOA1Y4HPA5|AOA1Y4HPA5_9BACT
tr|AOA1M3MC81|AOA1M3MC81_9BACT
tr|AOA1Q3KTB1|AOA1Q3KTB1_9BACT
tr|F7KI60|F7KI60_9FIRM
tr|C2CGI7|C2CGI7_9FIRM
tr|AOA1V5P9J8|AOA1V5P9J8_9FIRM
tr|AOA2S7ZD0J|AOA2S7ZD0J_9FIRM
tr|AOA1W1VEG8|AOA1W1VEG8_PEPAS
tr|G5IEG1|G5IEG1_9CLOT
tr|U7VFT7|U7VFT7_FUSO
tr|AOA2S4GQ19|AOA2S4GQ19_9FIRM
tr|R51577|R51577_9BACT
tr|AOA2M6ZWR1|AOA2M6ZWR1_9CHLR
tr|AOA1F0FV87|AOA1F0FV87_9PORP
tr|AOA2X1XJ55|AOA2X1XJ55_PORCN
tr|AOA1Q4P1Z1|AOA1Q4P1Z1_SERMA
tr|AOA2I4NZH5|AOA2I4NZH5_CLOBO
tr|R5SEH4|R5SEH4_9BACE

tr|A0A1M5S8F6|A0A1M5S8F6_9CLOT EQIQG . . . SAQNLLANLTGMVCDGAKESCAMKLSTSAEGIMAAAYLALH D.VVVPNT
tr|R7EVQ5|R7EVQ5_9BACT Y.DRI AIKNMVANLTGMVCDGAKPSCAMKLSTSATSTAMMSAL.LAVN G.QCASAS
tr|A0A2N5Z193|A0A2N5Z193_9BACT ERTGG TIANLLADITGMVCDGAKESCSLKLTSTACGMAPLYST.LAIN G.CIVDEKN
tr|A0A259UN51|A0A259UN51_9FIRM EMMAH TLNNMASSITGMICDGGNQGCTMKGTAAVDAAYASVD.FAMK G.AYIFDVH
tr|C3JB9P|C3JB9P_POREA R.EQIEF SIKNMVGNITGMVCDGAKPSCSMKVSSSGVSTAMPSAL.LAME H.KVVTSS
tr|C3WG74|C3WG74_FUSMR LS.L.KQIGY AIEITTLTGSGVICDGAKESSCATKIASGISAAPFDAYY.AASK D.RKFEFE
tr|A0A0U9HF52|A0A0U9HF52_9THEO EQIGF TINNMADITGIICDGGNFGCSMKAVTAASTAILSAL.LALK N.THIPKDS
tr|R5KGZ4|R5KGZ4_9BACT Y.EQMAF AVKNMIANLTGMICDGAKESSCALKLTSTGVSTATLSAM.LAIQ N.KHVTSV
tr|U2SF48|U2SF48_9FIRM EQIGF AVNNMFGNVSGMLCDGAKADCALKISTTCVFAAFQCAA.MAIR S.ESVKAT
tr|A0A1K1LIF7|A0A1K1LIF7_9DELT L.AVMER TIRNMVGNVAGMICDGAKESSCALKVATAVGAGIQAVM.LALD G.SVVPGN
tr|A0A134AK51|A0A134AK51_9FIRM ETMEY VINNMASITGMICDGGNQGCTMKGTAAVSAAFDSCE.LALN G.VHINKVH
tr|A0A0M1IUF1|A0A0M1IUF1_9CLOT KEIEN TIKNMASITGIICDGGNSACSLKANTGVKAFLSAK.MALN N.IVIPNKC
tr|C0C5L4|C0C5L4_9FIRM EQIAM VIQNMASGLTGMICDGGNQGCSMKGIVAVDAAFRAAD.MAME N.VICDNIH
tr|F3ZP77|F3ZP77_9BACE Y.KEVCY SIQNMIANITGMLCDGAKPSCSLKVATGVSTAMLSAM.MAMD G.KYVTSAE
tr|A0A098BXJ4|A0A098BXJ4_9PORP Y.NQITF AAKNMIANITGMICDGAKESSCALKIASGVSTATLSAL.MAIE D.GVASPL
tr|A0A1C7ID61|A0A1C7ID61_9FIRM L.WQVFF AISNMIAVSGIICDGAKESSCALKIATVLTSAHYCAV.LAIQ G.RGASGL
sp|C5CEY4|Y595_KOSOT T.EQISQ AMSTVFSSTLGMICDGAKEACAYKVGFSGEVAYNSAM.LALD K.SCVAGP
tr|B9DZB9|B9DZB9_CLOK1 L.ENIKY AIKNMIGITSGMVCDGAKCGCALKVSTGVSAVQAAM.LALS N.VEISQND
tr|A0A1W1XRL1|A0A1W1XRL1_9CLOT L.PNIKY SIKNMIAVSGMVCDGAKCGCALKVSTGVSSAIQAAL.LALN D.VEVSOND
tr|R5AJ55|R5AJ55_9FIRMKEASA ADMHMANLTGMICDGGSGSCALKASAGVVAAYLSAM.LAME G.TAIPNF
tr|N1JU37|N1JU37_9BACT R.ETJIEQ AMLTILSSITGMICDGAKESSCSLKAGLGQEAAYSCAL.LAMD N.IGVNSEQ
tr|A0A0G2Z8T6|A0A0G2Z8T6_9BACT K.EQIIN AAQTVLAGITGMVCDGAKESSCAFKAFFGGSIAFSSAL.LSLE G.RGVKSNQ
tr|K2Q853|K2Q853_9BACT R.QQIKN AINDTIGTLFGLTCDGAKRGCALKAVTGTLTALQVSE.LALN N.IDVPCGN
tr|H2J3N8|H2J3N8_MARPCK R.DQIKN AINNVLSTLFGTCDGAKRGCALKAGTGSFTALQSAQ.LALN N.TNIPCGN
tr|A0A0H2ST44|A0A0H2ST44_9BACT K.TQIKN AVNNVLSTLFGTCDGAKRGCALKAGTGTFTVALQSAK.LALE N.MNIPCGN
tr|A0A1V6A0Z4|A0A1V6A0Z4_9BACT P.RQAEI SVALLLSSLQGMVCDGAKGSCAIKVGTAAGAACTAAL.LVLQ G.FEDPGDQ
tr|S7T1X0|S7T1X0_9DELT A.ROSES AVAYVLAALMGVCDGAKFACSLKVATASAEAFDAAM.LAVH G.APLRTR
tr|G7V7I3|G7V7I3_THELD Y.QQAAQ AVGFLAASLGMICDGAKEACALKVSTTAAGEAYTSAL.LALK D.RSFPVAQ
tr|A0A1F9QEB7|A0A1F9QEB7_9BACT D.DAKKTAL AVNTVSDITGMICDGAKESSCALKVASSADSAITRAAW.MASN G.EGITDAE
tr|A0A1F9T7I4|A0A1F9T7I4_9BACTDLKKA AVNTVISITGMICDGAKESSCALKVASSADSAITRAAW.MACN G.EGITDE
tr|A0A1X7E8T6|A0A1X7E8T6_9DELT A.VQAEQ ASSYVLSSVLGMICDGAKESSCALKVTAAGAEAFMGML.LATN G.SKFTSQ
tr|S7U3L9|S7U3L9_9DELT A.AQAEQ AVALVSSVLGMICDGAKESSCALKVTAAGAEAWGAHL.LALH G.PAMRGA
sp|A7HMJ2|Y1278_FERNB A.EQIKN AINNVLSTLFGTCDGAKRGCALKASIGTQAMLLNASK.LALK D.TNIPCGN
tr|A0A1V5I1I1|A0A1V5I1I1_9BACT V.AKAAQ AMLIILGNLGMVCDGAKRTCALKVGTGALEYHAAL.LVFD G.HYPEPQ
tr|A0A1L7BFJ2|A0A1L7BFJ2_9BACT K.QQIKN AINDTIGTLFGLTCDGAKRGCALKAITGTLTALQVSN.LALH N.IDVPCGN
tr|A0A1E5HX95|A0A1E5HX95_9FIRMDKIEK AINNLI SDTSGVICDGAKESSCALKSLTAELALRHFE.LVIE
tr|E2NRI0|E2NRI0_CATMR D.DQIGY CIRNMSTVTGMICDGGKVGSCALKVSTGSTAALMCAT.TAVN N.AVLRES
tr|I8RL19|I8RL19_9FIRM S.TMVAN SMKNVFGNLAGMMGDDGKAEWGINLSIAAAVAVESSL.MAQH H.IAVPIHG
tr|A0A2IOFCX5|A0A2IOFCX5_9GAMM Y.EQSCY AIQNVLSDCSGMVCDGAKSTCAMKVSTSTSSAVTAFM.LAMN D.TQA.FDQ
tr|U2CTP5|U2CTP5_9CLOT P.QQIND MLCTCMH MAGVVCDAKPSCAFRMFTSLFGCLEAMM.MAEK G.IRATNVE
tr|A0A1Q6KJL3|A0A1Q6KJL3_9FIRM P.QQIND MLCTAQVQ MAGVVCDAKPSCATRMVVALFGSLQAMM.MAKE G.IRATNVE
tr|A0A1V6JAV4|A0A1V6JAV4_9BACTAEVRR IFRDIPAQ LAGLTCEGEPACGRKARQA
UniRef100_A0A174CRQ0 G.TL.DQINK TVNTTLANISGIVCDGAKASCAAKIATSVDDASMMGHY.LAME D.QCYASNT
UniRef100_A0A174N3S7 G.EL.SVIKK TIENTLANIPGIICDGAKESSCAAKIAASLDAAFLAHH.LAMN G.QSYAPYT
UniRef100_A0A1H7BL91 G.SL.EKINV TIRNTLANVSGIICDGAKESSCAAKIASLDAAYMAHV.LAMS G.RNYQPGD
UniRef100_A0A1H8XEW4 G.NL.ROINQ TIHNMLANVPGIICDGAKESSCAAKIASLDAAYMAHT.LARR G.SQYQAGQ
UniRef100_A0A1M6HFE6 GS.F.TNICN TIINTLGNITSGIICDGAKESSCAAKVSSVDAAILGHS.MSKR G.RVFDSDG
UniRef100_A0A1S9CDU8 G.TL.DQIKM TIINTLANISGIVCDGAKSSCGAKIASLSDGAMMAHH.LAME N.KSYSPRT
UniRef100_A0A1V2LVJ5 G.EV.EKINM TIINTLANISGIVCDGAKASCAAKIASLSDGALMHGH.LAMA G.QCYCAYT
UniRef100_A0A1W2DLF5 G.TL.EQINQ TISNTLANVPGIICDGAKESSCAAKIASLSDASYMSHV.LAMN G.KHYQAGN
UniRef100_A0A2V3XXD9 G.SY.EQICA TIINTLANVSGMICDGAKESSCAAKIATVDAAIMAHCH.LSME A.EEFQPGD
UniRef100_A0A316LX84 G.TY.EQICA TIINTLANVSGIICDGAKESSCAAKIASVDAAILGHY.LAME Q.QEFNAGD
UniRef100_A0A353LWZ7 G.DY.EQVSG TIINSLANVAGILCDGAKPSCAAKIASVDAAIMALT.MSFG A.FRFADGD
UniRef100_A0A356BVF5 G.DY.EEVCN TIINTLANVSGILCDGAKPSCAAKIASVDAAIMGLT.MSFT A.LKFLDGD
UniRef100_A0A359AUT6 Y.EQIKL ASONTIANITGMICDGAKESSCALKLATGTSTAMLSAI.LAME N.RGVTPTE
UniRef100_A0A395YNH5 G.SL.DRIKK TIENTLANIPGIICDGAKESSCAAKIASLDAAFLAHH.LAMN D.QAYAPFT
UniRef100_A0A402BP96 G.SL.EQINQ TIINTLANVSGIICDGAKESSCAAKIASLSDASYLSHV.LAME G.KAYQAGN
UniRef100_A0A413LQ61 G.SY.EQICA VITNTLANVSGMICDGAKESSCAAKIATVDAAIMAYY.LSLE K.EEFQPGD
UniRef100_A0A416BC47 A.DL.SVIKK TIENTLANIPGIICDGAKESSCAAKIAASLDAAYLAHH.LAMN G.QSYAPYT
UniRef100_A0A5B9YBV7 G.SM.EQIQK TIVNTLANISGIIICDGAKESSCASKIASLDAAMMAHY.LAMQ N.KAYAPFT
UniRef100_G8QTP6 G.TL.EQIEE TIINTLANISGMLCDGAKPSCAAKIASAIDAILGHN.LAMK K.EYFANGD
UniRef100_L1Q747 G.TL.EQINK TIINTTLANISGIVCDGAKASCGAKIATSVDAAMMGHY.IAMA D.KAYDSNT
UniRef100_N9XUA2 G.SL.EQISK TVNTTLANISGIVCDGAKASCAAKIATSLDAAMMSHY.LAMA N.QAYNPLT
UniRef100_R6G079 G.SL.EQINK TIINTLANISGIVCDGAKASCAAKIATSLDAAMMSHS.LAMT N.RGYSANT
UniRef100_S3L3U3 G.SY.ERICE TIINTLAVVSGIICDGAKESSCAAKIASVDAAIMAHY.LAMK H.EAFQAGD
UniRef100_S3LBC8 G.SY.EQVCA TIINTLAVVSGIICDGAKESSCAAKIADVDAAIMAHY.LAMR N.RVFQPG
UniRef100_UPI0003123980 G.NL.ROIEM TIINTLAGITSGMICDGAKESSCASKIASALSCGVIAHQ.MALN N.TAFEDT
UniRef100_UPI00059A8ADD G.TL.LQIDM TIRNTLANIPGIICDGAKESSCAVKIATAIDAMMAHY.LAMK N.CAYNTCD
UniRef100_UPI0006D86209 G.SL.TQIKN TIINTLANISGIVCDGAKASCAASKITSLDAAIMAHH.LAMN D.RVYENG
UniRef100_UPI0006DC3002 G.SL.EQINK TVNTTLANISGIVCDGAKASCAAKIATSLDAAMMAHY.LAMS D.QSYRANT
UniRef100_UPI000930BB27 ES.K.ELVEE TILNSLAVNSGILCDGAKASCAAKIASLRNAPMSLD.QAKR G.QSFKSGD
UniRef100_UPI00007D41A5 G.SM.DRIKK TIENTLANIPGIICDGAKESSCAAKIASLDAFLAHH.LAMN D.QAYAPFT
UniRef100_UPI0010671517 AD.A.DVLGM IITNTQGNVSGIICDGAKESSCAAKISSIEAGLMGYE.MAKR G.CVFRPGE
UniRef100_UPI0012B2C99E G.SE.KEIDD TIVNTLATITSGMICDGAKESSCAGKIAVAVNAAYIAHE.MAMR N.RVYHSGE
UniRef100_A0A017RVN8 E.EKEFN TISNMVGDVTGMICDGAKESSCAIKLSTAGAAALKAAL.LAMN G.SVFPFDN
UniRef100_A0A034T1R7 Y.EAVAM AIGSMIGDVSGMICDGAKESSCAMKVSTAGAAFKAVL.MALD D.SAFVSFG
UniRef100_A0A037Z1V7 I.QQICG AIKNMIAVSGMICDGAKESSCAYKLCISVSSAIDATK.MALD N.IFVPSGD
UniRef100_A0A064DLW3 Y.NTIAM AISSMIGDVSGMICDGAKESSCAMKVSTASAAWKAVL.MALD D.TAVTGN
UniRef100_A0A069RM78DQVEG AINNMIANLSGMVCDGAKAGCAYKLSAAAAAMQSAI.NVKY G.SIVPKLN
UniRef100_A0A073ITX9 F.QQICT AMSLLANIAMFCDGAKESCALKVGSAAGAAEYHAAK.WALR G.QKLAVPQ
UniRef100_A0A075KFF0 F.KAVSM AISNMIGDVAGLICDGAKESSCAMKVSTVMSGYKAVL.MALE G.IRVTEEN
UniRef100_A0A076LH42 ADRIEE SIKSFTANLPGIICDGGKIGCALKIASGVFAIYLSLF.SK VPYNT
UniRef100_A0A081BZ02 Y.HEISA TIANMVGNLSGVICDGAKESSCALKVSSAVQAAGQSAL.LAMO G.MRVSKNE
UniRef100_A0A081C875 DMKEIAL AINNLI SDLGMVCDGAKAGCALKVSTSTDSATRAAY.MALN N.HGITSLE
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UniRef100_A0A085HE69 Y.QTISM AIGSMIGDVSGMICDGAKESSCAMKVSTVSSAWKAVL.MALD D.TAVTGN
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UniRef100_A0A090JPN8 ES.K.EVIEE TILNSLAVNSGIIICDGAKESSCAMKIASIRNGFLAYD.QAKT K.NSFHSGD
UniRef100_A0A094JMB3 Y.QQISF AVSSMIGDVAGVICDGAKESSCAMKVSSAAGAAKSSSL.MAID N.ICTVTGE
UniRef100_A0A096AJM6 ES.R.DVVAQ TILNSALAGITSGVICDGAKESSCAMKIALALNNALFLGRH.QAKT D.NSFHTGD
UniRef100_A0A096KMZ8 GT.R.EQIGA TVSNTLGNVSGIICDGAKESSCAAKISALVDAAILGHD.MAM QG.RGFRAGE
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UniRef100_A0A0A2E6A5 K.EQSGY AVKNMIGNVSGMICDGAKESSCSLKASTISSALISAL.LAME Q.EVVTGL
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UniRef100_A0A0A3AP03 F.ETVSM GICSMIGDVSGIICDGAKESSCAMKVSTSVSSGYKSVL.MALD N.THVTGAE
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UniRef100_A0A0B7MG27 KEIITA AVNNLAGNLSGMVCDGGKPGCALKVSTCASEAVLAAF.LSLE G.VEIEKSD
UniRef100_A0A0C1U077 L.DNVSY TIKNMIGDVSGMICDGAKESSCALKLTAVGAAVKSAL.LSTR G.VEIESEK
UniRef100_A0A0D2HQ4 E.QQIAG AIKNITEDLAGVICDGAKESSCALKIATAGNAVKSAL.FSLQ G.VNMVATD
UniRef100_A0A0D8IFV9 QQIEG VIKNILGDVSGMVCDGAKESSCALKISTASAAITQAAL.LAID N.HIFAPGN
UniRef100_A0A0E2E9E9 G.SY.EQVCG TIVNTLGTVSGIICDGAKESSCAAKIASLSDAALFSGE.LAMD G.NFFAGGD
UniRef100_A0A0F0C990 AD.L.DGIIH TLVNALAISGVVCDGAKASCAGKIALAVDNGILGYE.MYQE G.QQFVGGD

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UniRef100_A0A0F5PPY6 R.KOIKG . . . AVSNMLAG LSGMICDGA K TG CAYKLSTI VTAAL EASK. FAME N.IFIPSDN
UniRef100_A0A0G0R539 L.EAVTC . . . AIQNL TAMIAGMLCDGA S EG CAAKV VVA DAAILWAGC. AAGY G.DNLSGGAA
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UniRef100_A0A0G4JSG9 Y.EFVAM . . . AIGSMIGD VSGMICDGA S NS CSMKVST SVSAAYKAVL. MALD N.SAVTGN E
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UniRef100_A0A0H3H4Y6 Y.LQ TINT . . . AIINMISD ITGMICDGA S NS CAMKVST SVVSSAFKAVL. MAMQ N.SCAGSN D
UniRef100_A0A0J1G0F0 Y.QQM QY . . . AVNSMVAD ISGVVCDGA K PG CALK IATAT VTS A I RAAN. MAIS G.TGADSH D
UniRef100_A0A0J1G1X4 YA.SF.SVIED . . . TITNTLAAV SGVICDGA K PS CAAKIAAG VQAGMLGYE. MAKD G.CRFREG E
UniRef100_A0A0J1H5D8 F.NHISN . . . AICSMIGD ITGIICDGA K TS CAMKVST SVASA AIKAAL. MALD G.IRVTGN E
UniRef100_A0A0J1JII6 F.DQISS . . . AICSMIGD ITGIICDGA K TS CAMKVST SVASA AIKAAL. MALD G.IRVTGS E
UniRef100_A0A0J5FUC8 Y.QPVAM . . . AICSMIGD ISGMICDGA S NS CAMKVST SVSAAYKAVL. MALD N.SCVSGS D
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UniRef100_A0A0J8V6C6 F.AHISA . . . AICNMIGD ITGIICDGA K TS CAMKVST SVASA AIKAAM. MALD G.IRVTGE E
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UniRef100_A0A0J8Y0Z6 F.AQSCF . . . AIQNVLS DTTGMVCDGA K AT CAMKVST SVSSQA AVKSM L. LAMN N.HAANKQ .
UniRef100_A0A0L0AS64 Y.DTIAI . . . AITGNMIGD ISGMICDGA S NS CAMKVST SVSAAWKAVL. MALD N.TAVSGN D
UniRef100_A0A0L6Z6T5 DG.Y.DEIAH . . . TVVNAAI VSGVICDGA K PS CAAKIAAA V DAGIMGYH. MYKE G.QEFKGG D
UniRef100_A0A0M0T7J5 Y.QPVAM . . . AICSMIGD ISGMICDGA S NS CAMKVST SVSAAYKAVL. MALD N.SVVTGS D
UniRef100_A0A0M3F2I2 Y.QTAMM . . . AIGSMIGD VSGIICDGA S NS CAMKVST SVSSAAWKAVM. MALE E.SAVTGN E
UniRef100_A0A0N8IRU1 F.QTISY . . . AVSNMISD ISGIICDGA S NS CAMKVST TATACAFKSVL. MAQQ N.SVAGER D
UniRef100_A0A0P8WD60 GG.E.KEISQ . . . TITNTLANV SGVICDGA K PS CAAKIAS VDAAILLACY. MTMQ G.RGFQSG E
UniRef100_A0A0P9CI45 Y.QQSCY . . . AIQNVLGDC TGMICDGA K ST CAMKVST STSSA IYSAM. LAIN A.TGTMDQ .
UniRef100_A0A0Q3VF08 QQVKA . . . AVQNTIGNV SGMICDGA K AG CAMKVST CSNVAVQSAL. LAIN H.QEISST D
UniRef100_A0A0Q4B7W8 E.KEVEA . . . TIKNMLGS V TGMLCDGA K VGG CALKVSSG VSTAVTSAL. LAME G.SCISAN D
UniRef100_A0A0Q9M0K2NEIKA . . . AIQNM LGNVTGM MCDGA K GGG CAMKVAT CTSAAVQSAL. LASK G.MTISSTN
UniRef100_A0A0Q9SDW4TEIKA . . . AIQNM LGNVTGM MCDGA K GGG CAMKVAT CTSAAVQSAL. LASK G.MTISSTN
UniRef100_A0A0R1J2S2 Y.NVAVS . . . TITNMMDA AVGMVCDGA G CCS CAMKVAS SVSSMYRSMN. LAIQ G.VSIPANN
UniRef100_A0A0R1KCR0 Y.EOACS . . . AITKNMIGD AAGMVCDGA G CCS CAMKVAT STSSM CRAVD. LAIQ G.VSIPANN
UniRef100_A0A0R1QCJ6 Y.QA AAA . . . AITKNMCDGV VGMVCDGA G CCS CAMKVAN SAATMCRAVK. LAIA G.VVIPATN
UniRef100_A0A0R1QVN7 Y.QTAMK . . . AVNNMAGDA AAGMVCDGA G CCS CAMKVAT SVSSMLRSVN. LAIQ G.VVIPASN
UniRef100_A0A0R1RS54 Y.DTACM . . . AITKNMAGDA PGMICDGA G CCS CAMKVAT SVSSMYRSMN. LAIQ G.VVIPATN
UniRef100_A0A0R1WE98 I.DDASR . . . AITKNMVD AAGMICDGA G CCS CAIKVAT SIQTMFKAVN. LAMQ G.VTIPGTN
UniRef100_A0A0R1XN77 I.EVAGR . . . AITKNMIGD AAGMVCDGA G CCS CAIKVAT SVQTMFKAVN. LAIQ G.VTIPGTN
UniRef100_A0A0S7YTK7 V.HHIA G . . . AITKNLIED LAGVICDGA K AG CSLKLATA AGATVQAAL. FSIO G.VEQOPT D
UniRef100_A0A0T9SYJ6 Y.LTVSY . . . AITNMISD ISGIICDGA S NS CAMKVST TATACAFKSVV. MAQQ H.SVAGEY D
UniRef100_A0A0U1P249TEVEA . . . AVQNTIGNV TGMICDGA K AG CAMKVST CSNVAVQSAL. LAMN N.KKIQST D
UniRef100_A0A0U9HKX7 L.EQIEG . . . SIKNMIGT MAGIICDGGKPG CAFKLAIS VDAAL E SAL. MALN G.VVISPD D
UniRef100_A0A0V8QFY1 GG.Y.EEV I H . . . TVVNALAI VSGVICDGA K AS CAAKIAAA V DAGILGYN. MYIR G.QQFYEG D
UniRef100_A0A0W1JFM7 GG.Y.DEIAH . . . TIVNAAI VSGVICDGA K PS CAGKIAAA V DAGILGYL. MYKE G.QQFRGG D
UniRef100_A0A0W7U3I6 GG.Y.EQISH . . . CITNMIGD VSGIICDGA G SA CSMKVST STSAAVKSSL. LAIN N.LRVTQS E
UniRef100_A0A0X8V7S8TEVSN . . . AITNHMAAN LTGMICDGGSIG CSLKASAG VYSAFLSAM. LAMN H.TAIPQYL
UniRef100_A0A101WFD3 GG.M.KEISQ . . . TITNTLANV SGVICDGA K PS CAAKIAS VDAAILLGCY. MTMQ G.RGFSSG E
UniRef100_A0A101WKD0SQIEG . . . AITNMIGNL SGMICDGA K AG CAYKLAS AGA AIQSAI. AAKY G.SVIPYKN
UniRef100_A0A110A741NQISG . . . AVQNMGGVAGMFC DGA K GGG CSLKLSV CAGEAVYSAM. LAMD D.SIIQAT D
UniRef100_A0A124F8X5NLNTSL . . . AITNMISD ITGMLCDGA K GGG CALKVAT ADSA I RAAY. MAIN G.YGIEYD D
UniRef100_A0A124IG43 DQIAG . . . AITKNIVGN LCGMICDGA K AS CAFKLS TASTESILAAE. LAIK N.VIAETD
UniRef100_A0A132HQ55 EP.L.STIEH . . . TLENALGMAAG IVC DGA K PS CAGKIALS VEAGILGYE. MSKO G.CNLLGG D
UniRef100_A0A132HZ15 Y.AQISY . . . AVKNLINTIAGMVC DGA K PS CALKMAS GLYAFVA AE. LACH N.HVVEET D
UniRef100_A0A133N2T7 KD.L.DLIEK . . . TISNALMIAS GMICDGA K AS CAAKIATAVDAGISGY. LAKN N.RNFEAG D
UniRef100_A0A133NA22 GS.Y.YNVC D . . . AITNTLGNL SGVICDGA K AS CALKISSGVYS AFDA CM. LAIN K.DVLRPE D
UniRef100_A0A133PQ02 ED.R.NITKA . . . TITNALATNS GLICDGA K ES CAIKIAS LKMGFLAYK. QAKE G.NSFKAG D
UniRef100_A0A133QF24 F.NNICY . . . AVKNMIANLTGMICDGA K PS CSLKISSGVSTAVLSAM. LSM E G.RHVTAE E
UniRef100_A0A133SJD7 T.PY.QTICR . . . ATASMNGG IVMVC DGA K ADS CSMKVAS AVEIAYRSVM. MAIA G.IRVEGT D
UniRef100_A0A134A7V5 GS.F.AQFEA . . . TIVNTLANV GGVICDGA K PS CAAKIASA AVDAAILGCD. MAL AD.DNFLAG D
UniRef100_A0A134AE04 DD.K.EIIEK . . . TLSNALAVNG GILCDGA K AS CAMKIAS LNRNGFLAYD. QAVA G.RSFHAN D
UniRef100_A0A134B344 K.EQSIG . . . AVKNMIGNV SGMICDGA K PS CSLKASTGVSSA ILSAM. LSMQ G.HVVTAT E
UniRef100_A0A136WEN1 EOVSG . . . AVQNLMMGGVAGMFC DGA K GGG CSLKLSI CAGEAVYSAM. FAMD D.SIIQAT D
UniRef100_A0A136W147 ACINK . . . AITNTIVNIFGVVCDGARLA CALKIASAAGIATECSI. LAVE G.VETPLN E
UniRef100_A0A136W1AI AEVSH . . . AMNHMAANLTGMICDGGSIG CSLKASAG VYSAFLSAM. LAMN E.TAIPNDF
UniRef100_A0A137SV0P KP.L.ETIKE . . . TISNALAVNS GLICDGA K AS CAMKIAS LNRNGLAYR. QALN N.NSFHSG D
UniRef100_A0A140L3I8 EQIDG . . . VIKNMIANI SGMICDGA K VGG CALKLATAASTAIQSAI. LAIN N.KIVPSKN
UniRef100_A0A143WXQ4 G.GY.EEAVH . . . AVVNALSI TAGMVC DGA K PS CAGKIAFA VNAGILGYV. MYRD G.QQFYGG D
UniRef100_A0A143XS55 Y.DEAAA . . . AVKNMVATLTGM LCDGA K PS CAMKLMSGVSTAVLSAM. MAME H.RCVTAV E
UniRef100_A0A150FRN2 RKIEG . . . CIDNMVANL SGMICDGA K AG CALKLAS AAGAVQSAL. MAKY N.CIVPPLN
UniRef100_A0A151B5Y3 C.TOAKY . . . AITKNMGNVAGMICDGA K IG CALKVSTCTSAAVQSAL. LAIN D.VISEKE E
UniRef100_A0A154BWC5 M.GOIHG . . . AITKNMVANLTGMICDGGKVG CALKLATAAGVCVETAM. LTLK N.VIVPNSN
UniRef100_A0A160IJG9VKMKA . . . AIQNTLGNV SGMVC DGA K AG CAMKVAT CSAAVQS AV. LASN G.LCIPSTN
UniRef100_A0A162SKD8 GD.Y.KETIAH . . . TIVNAAI VSGVICDGA K PS CAGKIAAA V DAGILGY. MYKE G.QQFRGG D
UniRef100_A0A163SFG2DKMKA . . . AIQNTLGNV SGMVC DGA K AG CAMKVAT CSAAVQS AI. LASN G.LCIPSTN
UniRef100_A0A165STA7 Y.QQISH . . . CITNMIGD VSGIICDGA G SA CSMKVST STSAAVKSSL. MAIN N.LHV PQS E
UniRef100_A0A173SRV1 G.GY.EEV I H . . . TVVNALAI VSGMVC DGA K AS CAAKIAS V DAGILGYN. MYIR G.QQFYAG D
UniRef100_A0A173VH50EKHTK . . . VIGNMASGLTGMICDGGNHG CTMKGIVAVDAAFRATD. MAMD D.ICIENIH
UniRef100_A0A173XRW8 G.TL.EQIEN . . . TITNTLANIAG IVC DGA K AS CAAKIAS L DAAIMGHY. LAMR G.VAFDEK C
UniRef100_A0A173YG33 GT.Y.EDVSL . . . TIVNTIGNV GGVICDGA K PS CAAKIASA VDAAILAHY. MGQ H.RSFQPG E
UniRef100_A0A174D2T3 GT.L.EQIEN . . . TVVNTIADAGG IVC DGA K PS CAAKISTALQAAILSHK. MAM R.RGFARG E
UniRef100_A0A174L3Z4 G.GY.KETIT . . . TVVNALAI VSGMVC DGA K AS CAAKIAAS V DAGILGYH. MYMQ G.QQFYGG D
UniRef100_A0A174MR10 V.PMVEA . . . AITKNVADL SGMICDGA K PG CSLKLATAAGTAVQSAM. LAIK G.ISATDR D
UniRef100_A0A174RFL9 GD.L.DDVSM . . . TITNTIANV GGVICDGA K PS CAAKIASA VDAAYMAHC. MTE NS.KTFRAG E
UniRef100_A0A174SLI3 L.TNIKH . . . AVNNMISD IAGMICDGA K ST CALKIATATAAALQCAT. LAMN N.ISPSSKN
UniRef100_A0A176U761 GG.I.DEVAH . . . TLVNSIAITSG IICDGA K PS CAAKIASA V DAGILGYE. MYRH G.QQFYGE D
UniRef100_A0A178K336 F.SHISA . . . AITCNMIGD ITGIICDGA K TS CAMKVST SVASA AIKAAM. MALD G.IRVTGN E
UniRef100_A0A191HT73 EAVKY . . . AVQNM LGNVTGMVCDGA K AG CALKVSTCTNAAVQAAL. LAVE G.LSVHST E
UniRef100_A0A194AJJ9 GG.Y.EETIAH . . . TVVNALAI VSGIICDGA K PS CAGKIAAA V DAGILGY. MYOH G.QQFYGE D
UniRef100_A0A198FLW8 Y.EPMA M . . . AISSMIGD ISGVICDGA S NS CAMKVST GSAAAYKAVL. MAID N.CVTGND
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UniRef100_A0A1B1Z1U9NKIKA . . . AITNTLGNV SGMVC DGA K AG CAMKVAT CSAAVQS AI. LAIQ G.LCIPSTN
UniRef100_A0A1B2I1I3 Y.DOICT . . . AMSLLAN IAGMLCDGA K ES CALKVGAATAEAYYAME. WAIM G.QRLAVP Q
UniRef100_A0A1B3FFN2 Y.DTIAK . . . AIGSMIGD VSGMICDGA S NS CAMKVST SVSSAAWKAVL. MALD D.TAVTGN E
UniRef100_A0A1B3WQ23 E.SD.EP IKN . . . EVINCLAITSG IVC DGA K PS CAAKIAIS IDGAYLAID. MTRN R.QRFAGG D
UniRef100_A0A1B6BB21 EQLGS . . . TIKNMLANTSGMICDGA K VGG CSLKLATAQAAYQSAI. LSTA D.TCVPTFN
UniRef100_A0A1B7HHI8 Y.KSISM . . . AITNMIGD VSGMICDGA S NS CAMKVST SVASA AWKAVL. MALD N.TSVSGN E
UniRef100_A0A1B7XD54 L.EETIER . . . TIKNMVGT IAGMICDGA K TS CALKVAS VEEAATSSAL. LAMK G.TSVPGS D
UniRef100_A0A1B7XGB6 Y.EETIER . . . TIKNMVGSVAGMICDGA K TS CALKVAS VEEAATSSAL. LAMK G.VSVSGN E
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UniRef100_A0A1C0A496 Y . EPVDM . . . AI C NMVGDLSGIICDGNSSCAMKVSTVSSSGFKAVL. MALN . . . R . IRVTGN E
UniRef100_A0A1C1A396 T E I K S . . . A I Q N M L G N V T G M M C D G A K G G C A M K V A T C T S A A V Q S A L . L A S K G . M S I S S T N
UniRef100_A0A1C4GIU9 Y . S T I S M . . . A I S S M I G D V S G M I C D G A K S S C A M K V S T S A S A W K A V L . M A I D N . T A V T G N E
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UniRef100_A0A239G347 . G . T L . E K I E K . . T I I N T L A N V S G I V C D G A K A S C A A K I A S S L D A A M A H F . L A M R D . S V F E V D S
UniRef100_A0A239ITT9 . D E I E G . . V I K N V L G D I S G M I C D G A K V G C A L K L S T S A S A A V Q A A L . L A I D H . Q I I P A G N
UniRef100_A0A239RJY8 . Y . T D I C H . . A V Q N M I A N L T G M I C D G A K P S C S L K I S S G V S T A I L S A V . L A R E G . R H V T A A E
UniRef100_A0A239TM99 . G N . F . N Q I A S . . T I I N T L G N T C G I I C D G A K P S C A A K I S S S L D A A I L A H T . M S M K G . D F T K S G E
UniRef100_A0A242V4K8 . F . F . E Q S C Y . . A I Q N V I S D S S G M V C D G A K S S C A M K V C T S S T T A V R S Y L . M A M G N . H S V K N Q E
UniRef100_A0A254V0A7 . Y . Q V V S M . . A I S S M I G D V A G M I C D G A S N S C A M K V S T S A G A A Y K A V L . M A I D G . T R V T G N E
UniRef100_A0A255TJW7 . Y . L R V C Q . . S V K N M I A N L T G M I C D G A K P S C A L K I S S G V S T A I L S A L . L S M E G . K C V S S A E
UniRef100_A0A256C0N1 . L . E V I N D . . A I C S M I G D V S G I I C D G A A N S C A M K V S S T A N A A F K A V M . M A I D N . R V T T G Q E
UniRef100_A0A257UFP3 . P . D E V S A . . A T T N I V G N L A G M I C D G A K I G C A L K T M T G V D A A F R A A S . L A R A G . L V I P V T D
UniRef100_A0A259UK57 . Y . E T V S M . . A I S N M I G D V A G M I C D G A S N S C A I K V S T S I A A A Y K A V L . M A I E G . T R V T K S E
UniRef100_A0A259UK69 . I . T M I E S . . A M K N I A N L T G M I C D G G K V G C S L K L T A A A A V E S S L . L A Q R N . I V V P D T N
UniRef100_A0A264YA23 . Y . Q H I C S . . A V K N M I A N L T G M I C D G A K P S C A L K I S S G V S T A I L S A L . L S M E G . K C V S S V E
UniRef100_A0A265Q339 . R E I S G . . A A N N M L S N L T G M I C D G A K E T C S F K L T S A G E A V L A A Y . L A I E N . I I V K P N I
UniRef100_A0A265Q6G2 . A I T S . . T I N N I I A N Q A G V I C D G A K P S C A L K I G T A A S T A V Q A L . L A I E G . I T I K D F N
UniRef100_A0A267MKY3 . A Q I D G . . T I V K N M I A N L S G M I C D G A K V G C A L K L S T S A S A A I Q A V L . L S L N D . A I V P T R N
UniRef100_A0A291TB67 . D . G Y . Q A A I H . . T I V N A L A I V S G I V C D G A K A S C A A K I A S S V D A A I L G Y N . M Y K C N . Q E F K G G D
UniRef100_A0A2A5JYP0 . Q Q I S Y . . A M Q N S I G N V T G M L C D G A K A G C A M K V S T C T G A A V Q S A L . L A S S G . L R V P G T N
UniRef100_A0A2A5QBH2 . Y . E V V A M . . A I S S M I G D V S G M I C D G A S N S C A M K V S T S A A A Y K A V L . M A I D N . S C V R G S D
UniRef100_A0A2C5T5X0 . Y . E P V A M . . A I S S M I G D I T G I I C D G A S N S C A M K V S S G V S A A Y K A V L . M A M N Q . Q C V S G N D
UniRef100_A0A2C6DCR8 . F . D T V G M . . A I S S M I G D V S G M I C D G A S N S C A M K V S T S A S A A Y K A V L . M A I D G . C C V T G N E
UniRef100_A0A2C6DRU7 . G T . D . E Q I E Y . . S V I N T L G T L S G M I C D G A K A S C A A K I A T C V E T A V M C H E . I A M K N . D V L Q P G D
UniRef100_A0A2C9PBN0 . F . K Q I S D . . A I C S M I G D V A G M I C D G A K T S C A M K V S S A G A A F K A T L . M A I D G . I R V T G N E
UniRef100_A0A2D3W7E5 . E N . L . E V V S H . . S T A N L L G D V S G I I C D G A K S S C A M K I A T T I T A S F D S Y L . L A S Q G . R H L N A G D
UniRef100_A0A2G2MFD4 . E Q I E G . . A I N N M I A N V S G M I C D G A K D G C A L K I A T A A S T S Y S S I . L A I N G . S I V Q P R N
UniRef100_A0A2G6BX86 . N Q S F A . . A M K S M L A S L G M F C D G A K T C A Y K L E T A A G E A V I Y S Y . L A I E N . V A I D G Q D
UniRef100_A0A2G6E433 . N I D K I T L . . A I N N L L S D I G M L C D G A K G G C A L K V V S A T D S A I R S A Y . M A M N N . H G I N A I E
UniRef100_A0A2G6HZA5 . G G . F . N E I A H . . T I V N A L A I V S G I I C D G A T A S C A A K I A S A V E A G I L G H C . M Y Q Q G . Q T F Y G G D
UniRef100_A0A2G6K886 . S . D A I E R . . T I K N M A G S V M G I I C D G A K T G C A L K T S M A V G V A I E N A F . L A I E G . V V P P A D N
UniRef100_A0A2G6M529 . V . E Q S T K . . A M E I I L G N L V G M V C D G A K E T C A L K V S T G A A E A Y C A A M . V V I A G . D S L K G A Q
UniRef100_A0A2G6MW14 . M . P E I T H . . T I K N M V G S I S G M I C D G A K T S C A L K V A T A E S G V N A A L . L G M K G . I S V P G K D
UniRef100_A0A2G6N232 . G R . F . E E I A H . . T I V N A L A V S G I I C D G A K A S C A A K V A V A V D A G I T G Y F . M F E K G . Q Q F Y G G D
UniRef100_A0A2G6P3W9 . G R . Y . D E I S H . . T I V N A L A I S G V I C D G A K P S C A A K I A L S V E G G I L G Y F . M Y K E G . Q K F C S G D
UniRef100_A0A2G6PSX3 . G G . F . E E V A H . . T I V N A L A I V S G I I C D G A K P S C A G K I A A A V D A G I L G Y Q . M Y K N G . Q Q F Y G G D
UniRef100_A0A2G6QN57 . G . T Y . E Q I S A . . T I L T N S L A A V A G I I C D G A K V G C S A K A V L S L N A A F L A H . L A M S G . D I V E A G D
UniRef100_A0A2H0ZBF8 . D L E A I N A . . A V N N L I S D I G M L C D G A K S G C A L K V A S S D S S I R S A Y . M A I K G . H I G E D E
UniRef100_A0A2H9P7L0 . E Q I G A . . A I N L M S A N L T G V V C D G A K E G C S L K L T A A G T A T E S A L . M A I S G . V R V P S D N
UniRef100_A0A2H9T779 . F . S A S E R . . A V H N I I G D V S G M I C D G A K N G C A M K V S T S T Q A A I K A V L . I A I S G . S R V T G Q E
UniRef100_A0A2I0PJ08 . R E I E S . . A I Q I M M A N V T G M I C D G A K S G C A L K I S T C T Y A A F Q S A L . L A V S G . V S I S E K E
UniRef100_A0A2I0QA36 . Y . D Q V C Y . . A I K N M I G N M T G M V C D G A K I G C A L K V A S G V S A A V Q S V L . L A M D N . I C I S E N D
UniRef100_A0A2I1MB94 . E E I A G . . A C T N I F A N I T G M I C D G A K E S C S M K L T S A E E S I T A A Y . L A I N G . V V S Q A N V
UniRef100_A0A2I5TF53 . Y . E L V A M . . A I S S M I G D I S G I I C D G A A S C A M K V S T A T A A Y K A V L . M A I D R . S G V S G N D
UniRef100_A0A2I7N9R7 . E S . Y . E V V A K . . A I I N T L S G V S G V F C D G A N S S C S V K I A N G T Y A A F D G A A . S A M N G . N V V T P G E
UniRef100_A0A2I8NM82 . Y . K A I E M . . . A I S S M I G D V S G M I C D G A S N S C A M K V S T S V S S A W K S V M . M A I D D . C A V T G N E

UniRef100_A0A2J6HXP9 GG . F . KEV AH . . . TIVNALAI VS GIICDGA KPS CAGKIAA VEAGILGYH MYKN . . . G . QQFYGG E
UniRef100_A0A2J6XEK0 N . KKI EN . . . SIKNVIAG LSGMICDGA KIG CAYKLYLSSISAI EASN MALN . . . K . IVIPSDN
UniRef100_A0A2J8B7A6 GG . DV . QAVEQ . . . TIVNALAI VS SGIVCDGA KAS CAAKIAT AVDA GILGFE MYRN . . . G . RCFRRG D
UniRef100_A0A2K2TW32 GS . E . EVV GL . . . TITNTIGN VGGIVCDGA KSS CAAKIASA VEAAVLAHY MAS . . . KH . KCFPGG E
UniRef100_A0A2K4ZDLC GD . Y . KTI AH . . . CLVNSLAVT SGMICDGA KAS CAAKIAFS IESAILGYE MYKM . . . G . SQFRDGE
UniRef100_A0A2L2WL5 Y . ETV CR . . . SVKNMIAN LTGMICDGA KPS CSLKISSG SVSTAILLSAL LSME . . . G . KCVSSAE
UniRef100_A0A2L2WWP7 Y . EOI SA . . . AVKNMIAN LTGMICDGA KPS CALKLI TTGVSTAVLSAM LAMQ . . . G . NCVTPVE
UniRef100_A0A2M6ZWR1 REI NN . . . AINAAASN MTGVICDGA KY S CTLKAMTA AGVAMESAL MSVN . . . G . IKIPPN
UniRef100_A0A2M8H1P7 Y . QOI SH . . . AISSMIGDIAGIICDGA KAA CAMKVSSSAGA AVKAAAL MAID . . . G . VYVTGRE
UniRef100_A0A2M8RT13 F . DTI SR . . . VISSMIGDI SGIICDGA ANG CAMKVSTGVTSGYKAVL MAID . . . N . TNVTGDE
UniRef100_A0A2M8S313 F . EAI SM . . . AISSMIGDI SGIICDGA ANS CAMKVSTSVTSGYKSVL MAME . . . D . SHVTGCE
UniRef100_A0A2M8TGF1 GD . Y . KEI SH . . . TIVNALSI VSGIICDGA KAS CAAKIAAGVDA GILGY MYKN . . . G . QQFRDGD
UniRef100_A0A2N1PL94 GD . L . TAV AN . . . AIVNTLGN ISGMICDGA KAS CALKIATGIYAFDAI LGFY . . . N . RAHSGD
UniRef100_A0A2N1QND6 ASA DR . . . AVQNIAGSLTGVICDGA KYG CALKLSAAGMAVEEAM LASS . . . G . YVVPGG D
UniRef100_A0A2N1QTJ0 E . DQMA D . . . AMQLLSNL LAGMLCDGA KES CALKVSSASSEAYFAAR WAVA . . . G . QRLGIPQ
UniRef100_A0A2N1SEJ3 RAIES . . . AITQNMVGNVSGMICDGA KAD CALKIYSC THAAMQAAI MASH . . . G . MRVQKT D
UniRef100_A0A2N1TGG1 V . RHMA S . . . AITKNLVSD LAGVICDGA KAA CSLKLATAAGTAVQSAAL FSLH . . . G . VGVQPT D
UniRef100_A0A2N2A6Z6 GG . Y . DGV AH . . . TVVNALAI ISGMVCDGA KAS CAAKIAVAVDA GILGYR MYTQ . . . K . KEFLSGD
UniRef100_A0A2N2B390 L . HOI FS . . . TIKNVI GDSGMICDGA KTG CALKVATVVESAFNATL LSLN . . . N . VOISKN D
UniRef100_A0A2N2CTS9 GD . Y . EAV SH . . . TVVNALAV VSGIVCDGA KAS CAAKIAMA VDA GILGYS MYQN . . . G . QQFFSGD
UniRef100_A0A2N2DQV4 AD . Y . NII AH . . . TVVNALAI ASGVICDGA KAS CAAKIATAVDA GILVGYH MYLE . . . G . EEFLGG D
UniRef100_A0A2N2EHW0 L . HOI FS . . . TIKNVI GDSGMICDGA KTG CALKVATVVESAFNAML LSLN . . . N . MQISKD D
UniRef100_A0A2N2EP56 DARK TAL . . . AVNTVISDI GGMICDGA KSG CALKVASADSATRAAW MASN . . . G . EGITDAE
UniRef100_A0A2N2FK02 L . HHIA G . . . AIKILIED LAGVICDGA KAG CALKLATAAGTAVQAAAL FSLH . . . G . MRIRAT D
UniRef100_A0A2N2GVW3 DREMRKL . . . AVNNLISDL GMLCDGA KSG CALKVASSTDSATLAAAY MAIH . . . H . HGINES E
UniRef100_A0A2N2HC93 EMQKI GL . . . AVNNLISDL GMLCDGA KGG CALKVVSSTESAIRSAF MALN . . . D . YGIASIE
UniRef100_A0A2N2IF24 L . AHI AG . . . AIKNIIED LAGVICDGA KAG CSLKLATAAGTAVQAAAL FSLQ . . . G . VNVMDT D
UniRef100_A0A2N2LGF6 L . ROIE Y . . . AIKNMIGN TAGMVCDGA KEG CSLKVATNTSAAVQSAAL LALG . . . N . LCVSGN D
UniRef100_A0A2N2VX69 Y . DOI CY . . . SIKNMI GNTGMVCDGA KYG CALKVAVSSAAVQSAI LAID . . . N . TCISDN D
UniRef100_A0A2N3IOV5 F . LOI LGM . . . TLQNM TGSVTGMICDGA KYG CSHKIAASVSAATQSSL LAMN . . . H . NCLNGSN
UniRef100_A0A2N4UW80 F . EOQ CS . . . ALQNCISDVAGMICDGA KAT CAMKVKSATCSACA AFL LAMH . . . D . QCASEQ
UniRef100_A0A2N5XTJ3 K . EQSYH . . . AIMNVLSDTSGMVCDGA KAT CAMKVGSSSAAAVKAVM VAMK . . . G . NAPRQ
UniRef100_A0A2N6BTV4 H . NHI AA . . . AIINLLGD LAGVICDGA KAS CSFKLATAAGSVAQAAAL FAIH . . . G . IRIAST D
UniRef100_A0A2N6D3G7 A . NHI AG . . . AIINHTHDLAGVICDGA KAG CSLKLATAAGTAVTASL LSLQ . . . G . VVVQAT D
UniRef100_A0A2N6D977 A . NHI AG . . . AIINHTHDLAGVICDGA KAG CSLKLATAAGTAVTASL LSLQ . . . G . VVVQPT D
UniRef100_A0A2N6EIM4 GR . F . EEI AH . . . TIVNALAT VSGIICDGA KPS CAAKIAASVDA GILGFL MYQN . . . G . QQFYDGD
UniRef100_A0A2N8ZD70 F . QOI ISD . . . AICSMIGDI SGMICDGA KTG CAMKVSSSAGA AVKACL MAID . . . G . IRVTGNE
UniRef100_A0A2N8ZKM0 F . EOQ CS . . . AIKNVLSDTSGMVCDGA KST CAMKVGSSSQAAMKGM L LALN . . . N . QSIDDQ
UniRef100_A0A2P1TWB1 KEI EN . . . TIKNMA SNTGMICTGNSA CSLKANTGVKAAFLSAK MAIK . . . N . IVIPNKC
UniRef100_A0A2P2BMT9 ROIEG . . . AIENMVAN LSGMICDGA KAG CALKLASAASAVQSAI IAKQ . . . G . CFVPPMN
UniRef100_A0A2P2FC67 GE . QERI . Y . QIL CD . . . TITNSIET LGGMVCDGA KAS CAAKIAGLAVENAIMALE LSLA . . . G . NVFPGE
UniRef100_A0A2P2FDS6 GG . Y . EAK KH . . . TIVNALAI VSGMICDGA KAS CAAKIATAVESGIFGYE MYCN . . . G . QQFYGGD
UniRef100_A0A2P2FE08 GR . K . KEI AD . . . TITNALAT DAVICDGA KSS CAAKIASAILEASLGWH MAKA . . . G . RVFSGGD
UniRef100_A0A2P5GLH4 Y . ETI AM . . . AIGNMIGDVSGMICDGA SNS CAMKVSTSAASAWKAVL MAID . . . N . TAVTGN E
UniRef100_A0A2P7Q289 DHISG . . . AVRNAVAD LSGMICDGA KSG CAIKLSSAASAVRNAL LAKN . . . G . NYAKTVN
UniRef100_A0A2P8EH31 GD . Y . RRI SY . . . TITNTLGN VGGIVCDGA KPS CAAKIASVHAAILAYQ MSM . . . RD . QCFKPG E
UniRef100_A0A2S0L2V7 EAMFR . . . CLNNMA SSI TGMICDGNHSG CVMKGITSADTAFRSKD FAMA . . . G . TCIENTH
UniRef100_A0A2S2CIK9 F . POI SS . . . AICSMIGDIAGIICDGA KTS CAMKVSSSASA AVKAAAL MAID . . . G . TRVTGNE
UniRef100_A0A2S4QN42 Y . DTL AS . . . AISSMIGDVSGMICDGA SNS CAMKVSTSVSSAWKAVL MAID . . . E . TAVTGK E
UniRef100_A0A2S4WWF9 Y . KAI VM . . . AISSMIGDVSGMICDGA SNS CAMKVSTSVGS AWKAVL MAID . . . D . SAVTGN E
UniRef100_A0A2S6HY69 GQ . R . EOI EN . . . TIINTLAN TSGIVCDGA SAS CAAKIASVDAAIMGYS LSMN . . . G . HVFLPG D
UniRef100_A0A2TOBJ09 GS . Y . KEI AH . . . TIVNALAI VSGIVCDGA KAS CAAKIATAVDA GILGYN MYKE . . . G . QQFKAG D
UniRef100_A0A2TOBN70 L . SOI KG . . . AITKNM IAGSGMICDGA KIG CSYKLATS VNAAILDAAN MANK . . . N . IFIPSG D
UniRef100_A0A2T2XZM9 P . DVINA . . . AITNMVSDITGMICDGA KAS CAMKVSSVSSAWKAVL MAMQ . . . N . SCASAND
UniRef100_A0A2T3IZB3 F . SHITS . . . AICSMIGDI TGIICDGA KTS CAMKVSSSASA AIIKAAAL MAID . . . G . TRVTGNE
UniRef100_A0A2T3JYD2 F . EKI CF . . . AIQNTLSDITGMFCDGA KST CAMKVKSSTSSAVMSSL MAID . . . N . HEADQN E
UniRef100_A0A2T3LD16 L . NKI NN . . . AICSMIGDIAGIICDGA KTS CAMKVSSSAGSAVKSAAL MAID . . . G . IHTVTNE
UniRef100_A0A2T3LKN5 F . EOM CS . . . AIQNTLSDITGMICDGA KST CAMKVKSSTNSAVMSFL MAIE . . . N . HEAQSQ
UniRef100_A0A2T3N3A2 F . DKISN . . . AICSMIGDIAGIICDGA KAS CAMKVSSSAGA AVKAAAL MAID . . . G . TRVTGNE
UniRef100_A0A2T3NLR8 F . SHISN . . . AICSMIGDI TGIICDGA KTS CAMKVSSSASA AIIKAAAL MAID . . . G . TRVTGNE
UniRef100_A0A2T3P069 F . KOV SS . . . AICSMIGDI TGIICDGA KTS CAMKVSSSASA AIIKAAAL MAID . . . G . TRVTGCE
UniRef100_A0A2T4T7G6 Y . AHV CH . . . AVKNMIAN LTGMICDGA KPS CALKISSG SVSTAILLSAL LAME . . . G . KHVTAAE
UniRef100_A0A2T5C8M1 AN . Y . DIT AH . . . AIVNTLGN ISGMICDGA KPS CAMKIATGIYAFDAI LASL . . . H . KDLHGD
UniRef100_A0A2U1E4Q5 ES . F . DII KN . . . TLTNTLAT TSGIVCDGA KSS CASKIATSVNASILAYE MAK . . . RG . RHRFRGE
UniRef100_A0A2U1FPB7 K . EOI SF . . . AITKNM IAGTGMICDGA KPS CSMKVSSG SVSTAMFSAL MAIE . . . Q . KVVTSSE
UniRef100_A0A2U3BBY7 Y . QOI SH . . . AISSMIGDIAGIICDGA KAS CAMKVSSSAGA AVKAAAL MAID . . . G . VYVTGNE
UniRef100_A0A2U8DPR2 GD . Y . DTI GK . . . TIINAVGN VGGIVCDGA KAS CAAKISSVDA GILGYE MAK . . . HG . LVFPFGE
UniRef100_A0A2V1H4Z1 L . PEVEN . . . AIFNMFGDVSGIIFCDGA KTG CSLKVSTASSAVKAAAL MAID . . . G . IRVTCNE
UniRef100_A0A2V2C3K4 A . DCOVER . . . MLRTVLGN VGMVCDGA KSN CAAKAGMALHGAMQALA LAEA . . . G . LGADEEC
UniRef100_A0A2V2DF95 GR . M . EEI AH . . . TLVNSIAI VSGIICDGA KPS CAGKIASVDA GILGYA MYRE . . . G . QQFYAE E
UniRef100_A0A2V2E3V3 V . VOM KY . . . GINSMVADISGVVCDGA KPG CALKIATAVNSAITRAAT MAIN . . . N . LGADAH D
UniRef100_A0A2V2E4R8 GR . M . EEI EH . . . TIVNSLGT VSGMVCDGA KPS CAAKIAMIESGVFGYR LFKN . . . G . NEFYAG D
UniRef100_A0A2V2EJ75 AG . L . RTI GG . . . LITNTAAAI GGMVCDGA KPS CALKISAAALNAFDAYR LSRN . . . S . NICSPGD
UniRef100_A0A2V2ETK2 GG . V . DEI SH . . . TIVNAIAIDSGMVCDGA KSS CAAKIACAVESGILGFE LYRA . . . G . QQFYGGD
UniRef100_A0A2V2FNF5 AD . Y . DVI CH . . . TIVNALAI LSGMLCDGA KSS CAAKISAAVDA GILMGYT MYAS . . . G . QQFYGGD
UniRef100_A0A2V2FVB2 GD . Y . EVI AH . . . TIVNALAI LSGMLCDGA KAS CAAKIATAVNNNLLGYR LYQQ . . . G . LQFYAG D
UniRef100_A0A2V2GMP9 GG . T . EEI SH . . . TVVNVAIA SSGIICDGA KAS CAAKIISQAVEAGILGYE MYEQ . . . G . NQFYGGD
UniRef100_A0A2V4A5K8 F . QOI LGM . . . TLKNMTGSVTGMICDGA KYG CSHKISASVSAATQSSL LAMN . . . H . NVLNGMN
UniRef100_A0A2V4E5P6 GN . D . EOI EN . . . AIVNTLGT LSGMVCDGA KAS CAAKIAASVDAAITSEH MAML . . . N . NALHDGD
UniRef100_A0A2X2T0J3 Y . DTI AK . . . AISSMIGDVSGMICDGA SNS CAMKVSTSATSAWKAVL MAID . . . N . TAVTGN E
UniRef100_A0A2X4V7P6 Y . QTI SM . . . AISSMIGDVSGMICDGA SNS CAMKVSTSATSSAWKAVL MAID . . . G . SAVTGT D
UniRef100_A0A2Z4U933 Y . EOM CH . . . TVSTMVADISGVVCDGA KPG CALKIATAVESAVRAAN MALN . . . G . KQAGGG D
UniRef100_A0A2Z4UBV8 GG . Y . EEI SH . . . TIVNALAINSGVVCDGA KAS CAAKIASAVEAGVLGMK MYOF . . . G . SQFYGGD
UniRef100_A0A2Z4W8H1 L . KKIKY . . . AITKNMAGN VGMICDGA KTG CALKVSTGVSAAMQSAAL LAMP . . . N . TEISCDD
UniRef100_A0A2Z5SEU7 DMHKL DL . . . AVNTIISDI GMLCDGA KGG CALKVVSSTSDAIIIRAA Y MALN . . . G . HGISEEE
UniRef100_A0A2Z6AV01 A . QHI AG . . . AITKNLTLD LAGVICDGA KAG CALKLATAAGSVQAAAL FAIQ . . . G . VNVDSGD
UniRef100_A0A2Z6IAJ8 YD . D . RAIES . . . VITNALAITSGLICDGA KSS CAAKIAMVEGALVALD MVKN . . . E . QVFRGEG
UniRef100_A0A315QTM8 DKIEE . . . AINNLI SDSLGMICDGA KGS CALKSLTAELALRHFD LIMQ . . . D . LNCHLPS
UniRef100_A0A315ZH44 GT . V . ENVKH . . . AITNTLGN VSGVICDGA KAS CATKTIASGVYAAFDGAM LAQM . . . G . SVLQGED
UniRef100_A0A315ZYF5 EMMAH . . . TLNNMA SSI TGMICDGNQOG CTMKGITAAVDAAYKSVE FAMN . . . G . YIDNVH
UniRef100_A0A315ZYI5 G . GY . NEI AH . . . TVVNALAI VSGMVCDGA KAS CAAKIASAVDA GILGYD MYVR . . . G . QQFYGGD
UniRef100_A0A316D413 I . KKM LC . . . AIDTMSINTTGVICDGA KES CAFRVGIAAEHAYISAL MADK . . . E . LYVDNTQ
UniRef100_A0A316MK44 E . DQMMG . . . AMRNILGSVSGMLCDGA KEG CATKLLIAANISVLSAL MAME . . . G . LCTSPAD
UniRef100_A0A316N270 P . EOQ ER . . . AVTVLVA LSGMICDGA KET CSLKVATGCEAYSAAA LAIK . . . G . GGVHDVQ
UniRef100_A0A316NGF8 EQVEV . . . AITNTIPSF VGVVCDGA KLA CALRISSGTGIALETSS LAIR . . . G . VRIANNQ
UniRef100_A0A316NJU4 GS . Y . EDV CG . . . TITNTINTTGMVCDGA KSS CASKIATAVGMALLAMN MSGK . . . G . RVFKPGE
UniRef100_A0A316NQW2 ASLDR . . . ACNNMA SSI TGMICTGNHNC CCLKVITAVDCAYNAAV LSV D . . . N . AAVAAPH
UniRef100_A0A316PL63 GG . Y . EEI CG . . . TITNTLAT LSGMLCDGA KSS CAAKIATAVQTAILLAA MSAN . . . G . RRFRHGD
UniRef100_A0A316PQ13 GD . Y . RAI AH . . . TIVNAVAILSGIICDGA KPS CAAKIASAVEAGILGY MYVN . . . D . QQFRGG D
UniRef100_A0A316PQC6 E . ND . TVI KH . . . VIVNCLAITSGIICDGA KPS CAAKIASVDAAILLALA MAQH . . . K . QCFRAGE
UniRef100_A0A316QLU6 GG . Y . SGV AH . . . TITNTLAITS GIVCDGA KAS CAAKIATAVDA GILGYD MYLH . . . G . QQFYNGD
UniRef100_A0A316R9D7 L . SOI EN . . . VIQILIAN ISGLFCDGA KAS CSMKASVGI AAYEAYV IAVD . . . ND . IAAACD
UniRef100_A0A316RJH4 KEI IGY . . . AVQNMAGN VVGMICDGA KAD CALKIISTCINA AVQAAAL MASQ . . . G . VRVAST D

UniRef100_A0A316RT04 L . PEIKC . . . AVNNMLATLQGMICDGAATCALKIAAGTNVAIMSSSTLALA . . . D . IQPSSMD
UniRef100_A0A316STM8 Y . TQISY . . . AVKNMIANLTGMICDGAAPSCALKLSSGVSTAVLSAI . MAME . . . N . KFTVTSV
UniRef100_A0A318EHG9 GK . E . EETQ . . . TLVNTLANVSGIVCDGAKSSCAAKIASAVDAATVATMISLR . . . G . KGFVAG
UniRef100_A0A329HK89 Y . RTIAM . . . AIGSMIGDVSIGMICDGAANS . CAMKVSTSVASSAYRSVM . LAID . . . N . IRVGGD
UniRef100_A0A329TRM0 GR . Y . NEIAH . . . TVVNALAINSGMVCDGAKASCAAKIASAVEAGLLGMQ . MQMH . . . D . SEFVGGD
UniRef100_A0A329TZB5 G . DY . DAIVH . . . TVVNALAVSGVICDGAASCAAKIATAVEAGLLGYNMYIR . . . G . NFRAGD
UniRef100_A0A329U9Y1 HEICC . . . AIQNMVGNVTGMVCDGAKAD . CALKISTCVNAACQAAA . MGTR . . . G . IRVQSTD
UniRef100_A0A344MMA6 F . QDVQD . . . TISNMTGDHIGMVCDGAGNSCTLKVATACDAACRAVMSLSLH . . . N . IRVTGSD
UniRef100_A0A346AZS6 H . AE . QTIISN . . . AICSMITGDAIGMVCDGAANS . CSMKVVTAVSSAYRSVM . LAID . . . N . IRVGGD
UniRef100_A0A346B2K8 AVMER . . . VVANMAASITGMICDGGNQGCCTMKGVTAVDTAFRSVR . FALS . . . G . VGVDPVH
UniRef100_A0A347AH72 REIES . . . ALQOLMANVTGIIICDGAAGSCALKISTCTFAAVQTAL . MALD . . . G . ISIDAKE
UniRef100_A0A347AJ71 SEIRS . . . ALQIMLANLTGMICDGAAGSCALKIATCTYSAIQSAL . LAIN . . . G . VKIPTKE
UniRef100_A0A348NII3 G . SR . MAIEA . . . TILTNLAIVTSGIICDGAAPSCAAKIATAVDAAILTASRLALA . . . Q . TDYLAN
UniRef100_A0A349G9B8 IQMEG . . . AIQNMIANTTGMICDGAIVGCSLKLATASAAAIQSSSL . LAIG . . . N . VVVPSTGN
UniRef100_A0A349N0S4 EN . G . DVIRG . . . TLNTLASLSGVVCDGAKPS . CAMKIGMAVGTGEIAYR . QAKS . . . G . NTFHAGD
UniRef100_A0A349P8R7 NPKKATL . . . AVNTVISDITGMICDGAAGSC . CALKVAS . SCESATIRAAW . MASN . . . G . EGITEAE
UniRef100_A0A349SZM2 GD . E . NVIAH . . . TIVNALAISSGIVCDGAKSSCAAKIAMAVETGIFGYE . MYME . . . G . QQFYGGD
UniRef100_A0A350BG08 SAVEN . . . AASAVLATLTGMLCDGGKVG . CALKVNTAVSTAESAY . LALK . . . G . VSIPSTGN
UniRef100_A0A350IFD9 Y . EEVCS . . . AIKNNMIGNITGMVCDGAKVGCAMKVAS . SVSSSVQSAV . LALQ . . . G . IHACETD
UniRef100_A0A350W0I4 G . TI . KOIQK . . . TIDNTLANIPGIIICDGAIS . CAAKIAS . SLDAAMMGHY . LAMK . . . G . KAYEAT
UniRef100_A0A350X275 G . TL . EOIEK . . . TIVNTLANVSGIVCDGAKIS . CAAKIAS . SIDATIMGHH . LAMR . . . D . VFVEDC
UniRef100_A0A351AS26 Y . EOVCSS . . . AIKNNMIGNITGMVCDGAKVGCAMKVAS . GVACAVQSCV . LALR . . . G . TCIKETD
UniRef100_A0A351EDR8 GG . L . KEIEH . . . TIVNSIAIDS . GMVCDGAKAS . CAAKIAS . AVDAGILGYH . MYKN . . . G . QQFRAGD
UniRef100_A0A351TJ1 G . SL . AOIKA . . . TIDNTLANIPGIIICDGAIS . CAAKIAS . TIDAMMAHY . LAMQ . . . D . KOYAAYT
UniRef100_A0A351UIB2 DPKKAAL . . . AVNTVISDITGMICDGAAGSC . CALKVAS . SADSATIRAAW . MASN . . . G . EGITEAE
UniRef100_A0A351UVB6 G . GF . A . EVCA . . . AVKNMVANLTGMICDGAAPSC . CALKISS . GSVSTAMMSAM . LAMN . . . G . KCVTSTE
UniRef100_A0A351UVG4 G . GF . EDVKH . . . TVVNALAIVSGIVCDGAKAS . CAAKIAS . AVDAGILGFE . MYRN . . . G . QQFFAGD
UniRef100_A0A351XYN7 Y . DOITY . . . AIKNNMIAITGMICDGAAPSC . CALKIAS . GSVSTALSAL . MAIE . . . N . EVVSAQE
UniRef100_A0A352A5R7 AOIQG . . . TVKNILANOS . GMVCDGAKPG . CALKLGT . AAASGVQSSL . LAME . . . G . YYACKNE
UniRef100_A0A352HTF0 Y . POVCSS . . . AIKDMIANLAGMICDGAAPSC . CSMKISS . GSVYTAMLSAM . LAMN . . . G . KCVTQAE
UniRef100_A0A352NCV1 E . IKAEM . . . AIKNNMIGDAVGMICDGAAGFS . CAIKVVSS . SVSSMYRAVR . LAQA . . . G . IVIPATN
UniRef100_A0A352P5R0 GG . Y . EEVHS . . . TIVNALAIVSGIVCDGAKSS . CAAKIAS . IEAGILGYN . MYME . . . G . QQFFDGD
UniRef100_A0A352ZB45 AS . Y . EOISA . . . VVIDSIATADGILCDGAKSS . CAAKIATALESAMLALE . LGMH . . . EG . RRFREDGE
UniRef100_A0A353BWM0 KEIKS . . . AIQNNMLGTVTGMLCDGAAPG . CALKIAT . CTSATQSAL . IT
UniRef100_A0A353E5G4 Y . TRICN . . . SVKNMVANLTGMICDGAAPSC . CALKISS . GSVSTALSAL . LSME . . . G . KCVTSAE
UniRef100_A0A353JZW6 YOIAG . . . TIKNNMVGNLAGMLCDGAAGG . CALKLST . ASSEATLSAE . LAKN . . . N . IISDFD
UniRef100_A0A353Q9I3 Y . EOVCFF . . . AIKNNMIAITGMICDGAAPSC . CSMKISS . GSVYSAMLSAL . LAIK . . . H . VCVTSAE
UniRef100_A0A353RNY3 Y . AOITF . . . AIKNNMIAITGMICDGAAPSC . CALKIAS . GSVSTASLSAL . MAIE . . . N . EVVTSQE
UniRef100_A0A353WQ7 Y . KEVTY . . . AVKNMIAITGMICDGAAPSC . CAMKLTS . GSVSTAVLSAM . MAME . . . H . ECVSCVE
UniRef100_A0A354CV6 GR . F . TEIAH . . . TIVNAVAINS . GMVCDGAKAS . CAAKIAS . AVEAGLLGMN . MYMH . . . G . REFYGGD
UniRef100_A0A354KVM3 NHYIG . . . AIENMIAID . LSGMICDGAAG . CALKLSS . AASAVQSAV . IAKQ . . . G . YAVPPLN
UniRef100_A0A354WYR3 K . QOITF . . . AIKNNMIAITGMICDGAAPSC . CAMKVAS . GSVYTAMLSAM . MAME . . . G . KCVTQAE
UniRef100_A0A354ZC21 P . EOAVA . . . AMQIVLAETAGMVCDGAKES . CSLKVG . IGGAEAYTAAL . LAME . . . G . KGVSRPQ
UniRef100_A0A354ZK32 V . DECTV . . . AMQTVLASTVGMICDGAADT . CSLRVGV . GATESYFAAL . LAMR . . . G . QGVTEAG
UniRef100_A0A355C672 Y . ROVTF . . . AIKNNMIAITGMICDGAAPSC . CALKIAS . GTSTAYLSAL . MAIE . . . N . RVVTSQE
UniRef100_A0A355MAF9 ED . L . NTVSN . . . AIINTLGTISGMICDGAAGS . CAMKIAT . GIYAFDGM . LAQN . . . N . KSLHGG
UniRef100_A0A355PSM2 DAMKR . . . TINNMASSITGMICDGGNQGC . CAMKG . VVAVDAAYRSVD . MAMN . . . G . VYIVDVH
UniRef100_A0A355TQ25 G . TL . EMLAA . . . TVDNTMANIPGILCDGAIVG . CAAKIAT . SLDAATMAHY . MAMN . . . D . SNYTAHT
UniRef100_A0A355UQR2 DLCSIPY . . . AINNLPVSDIGMICDGAAGS . CAFKVVS . TSDAATIRAAV . LGIH . . . R . HGITRAE
UniRef100_A0A355YLJ0 GD . Y . EEIAH . . . TIVNALAITS . GIIICDGAAS . CAAKIATAV . DAGIFGYD . MYLK . . . G . QQFYGGD
UniRef100_A0A356DEI2 Y . DRVVN . . . TIKTMCNLTGMICDGAAGG . CALKVYS . GSAVQAAL . LSMR . . . G . I . RTNND
UniRef100_A0A356EFX8 V . KHIAG . . . AIKNIIGDLAGVICDGAAGG . CAMKLST . AAGTQAAL . FSLR . . . G . ITIQSTD
UniRef100_A0A356EMW2 DAEKTTL . . . AVNNVAGD . LGLICDGAAPG . CAMKTTT . AVDTAIRSGL . MAIE . . . G . FGLNVD
UniRef100_A0A357AH24 G . DY . QAVIH . . . TVVNALAIVSGMVCDGAKAS . CAAKIAAAV . DAGILGY . MYTQ . . . N . QQFYGGD
UniRef100_A0A357AQ81 EOVG . . . AVNNMLGDVAGMLCDGAKAN . CALKIST . CVNTAFQCAF . MALH . . . N . EVVKASD
UniRef100_A0A357T3R8 EDMVN . . . AMHSVLGALAGVICDGAES . CAYKLST . ATATAIEYAY . LSTK KKVIFPRGN
UniRef100_A0A357T8X2 EAVSA . . . AIQNNMLGNITGMICDGAAGG . CALKVAT . TSTAACMSAT . LALS . . . G . IAGSQE
UniRef100_A0A357VEP0 S . TPVTR . . . TLNLAGSLSGIICDGAAGS . CSLKVMV . GVTGLKTAL . LTIO . . . G . LTASPS .
UniRef100_A0A357YNR7 Y . DOITY . . . SAKNNMIAITGMICDGAAPSC . CALKIAS . GSVSTALSAL . MAIE . . . D . EVVTSQE
UniRef100_A0A358LAD3 NOIAG . . . AVNSMSGTLAGMLCDGAAGG . CAFKLTA . AGEAVCMAL . LAKK . . . N . VFHKNQ
UniRef100_A0A358LYG4 Y . AQAAA . . . AVKNMIAITGMICDGAAPSC . CAMKLTS . GSVSTAVLSAL . MAMD . . . G . HCVTPVE
UniRef100_A0A358NGP3 I . NOIKG . . . SINNMVAGISGMLCDGAAGL . CSYKLS . ISVDAVDAE . MALK . . . N . IFIPDDN
UniRef100_A0A358S9Q9 KEIHG . . . AIQNNMLGNVTGMICDGAAGG . CALKVAT . TSTAACMSST . LALS . . . G . IAGCGE
UniRef100_A0A359ICG5 F . AOVCA . . . AIKNNMIAITGMICDGAAPSC . CSMKISS . GSVSTVMSAM . LAMN . . . G . TCVSSGE
UniRef100_A0A366KDN2 Y . DTA . . . AVNNMAGDAAGMVCDGAGG . CAMKVAT . ASSMYRSVN . LAIQ . . . G . VAIPASN
UniRef100_A0A367ZT42 L . EAITA . . . AVNTMTGGITGIIICDGAAGG . CAIKLIT . AVDAQAAL . LAIH . . . G . CLPSTN
UniRef100_A0A369M9D2 G . GY . KEACH . . . AVNNALSI . VAGMVCDGAKS . CAGKIAF . SVNAGLLGYV . MYRD . . . G . QQFYGGD
UniRef100_A0A369ZG2 F . DAISM . . . AICSMIGDISGIIICDGAANS . CAMKVST . SVTSYKLSIL . MALD . . . N . TQVTGN
UniRef100_A0A369ZIP7 F . ETVSM . . . AICSMIGDISGIIICDGAANS . CAMKVST . SVASGYKSVL . MAMD . . . E . THVTGNE
UniRef100_A0A370R191 Y . EPVAM . . . AICSMIGDVSIGIIICDGAANS . CAMKVST . GASAAYKAVL . MALD . . . N . SCVTGNE
UniRef100_A0A371IV96 ROIEG . . . STENMVANLTGMICDGAAGG . CALKIAS . AASAVQSAI . IAKQ . . . E . CYVPPMN
UniRef100_A0A371J0V2 ROVEG . . . AMENIVAS . LSGMICDGAAGG . CALKIAS . AASAVQSAI . IAKQ . . . D . CFVPPLN
UniRef100_A0A371JG02 AD . Y . DIIGK . . . TLINAI . GNVGIVCDGAKAS . CAAKISS . AVDAGILGYE . MAV . . . RN . LSFPPGE
UniRef100_A0A372MG44 L . EEMDR . . . AFNTMVGNLTGIIICDGAAGT . CALKIYS . CVEANLIACN . LAFR . . . G . LSPGSES
UniRef100_A0A372SSJ3 GN . Y . ENITH . . . TIVNALAITS . GMIICDGAAPSC . CAAKIAS . AVDAGIMGY . MYQC . . . G . KQFYCGE
UniRef100_A0A372V216 EAAILG . . . STQNALG . . . IGMICDGAAGG . CAAKIAAA . AAVTAAY . LSTA . . . G . CHVAARD
UniRef100_A0A372V355 GD . L . SAVAH . . . TLVNSLAIVSGMVCDGAKPS . CAAKIAC . AVNDSILGWQ . MYRN . . . G . KQFYGGD
UniRef100_A0A372WT61 AD . E . AILGK . . . VINTLNCNVGIVCDGAKPS . CAAKIAAA . VNSAGLLGWA . IYQR . . . SG . YAFGAGQ
UniRef100_A0A373CKD1 YP . Y . EVVCE . . . TITNTIATVGMVCDGAKSS . CAAKIST . ALQTAILGMK . MGLH . . . D . RAFQPG
UniRef100_A0A373HYW8 AS . E . EVMNH . . . TIVNTLAITS . GIIICDGAAS . CAAKIAS . VVEAGILGYD . MYMN . . . G . QQFYGGD
UniRef100_A0A373NH16 GD . Y . KVI . . . TIVNSLAIVSGIICDGAAS . CAAKIAS . AVDAGIMGYE . MYIQ . . . G . QQFYGGD
UniRef100_A0A373U4P5 Y . DNAMVN . . . TIKTMCNLTGMICDGAAGG . CALKVYS . GSAVQAAL . LSMR . . . G . I . KTNND
UniRef100_A0A374A8C6 Y . GQAAA . . . AVKNMIAITGMICDGAAPSC . CAMKLTS . GSVSTAVLSAM . MAMD . . . G . HCVTPVE
UniRef100_A0A374NZP7 V . DAVER . . . AAKNMAGS . VGIICDGS . LG . CAWKILG . LSV . DWSIKSAL . MAIN . . . E . CCIHQG .
UniRef100_A0A374P0I3 QK . V . EVVER . . . MITNHLGTISGMVCDGAKES . CASKIAF . SALFSA . MLYGE . MAKE . . . N . TVFRNGC
UniRef100_A0A374PBN0 G . TL . EOIKN . . . TIGNVLANIPGIIICDGAAGT . CAAKIAT . SLDAATMAHY . LAMN . . . G . RAYQADS
UniRef100_A0A377H098 LS . L . EQIGY . . . AIE . TTTLGTMSGIVCDGAKS . CATKIAA . ISAFDSY . AASK . . . N . RKFEFG
UniRef100_A0A377LUR8 Y . QTIAM . . . AICSMIGDVSIGMICDGAANS . CAMKVST . TORQCCLES GD
UniRef100_A0A379DRQ6 GT . D . EOIQY . . . AVINTLGTLSGMICDGAAPSC . CASKIAT . CIDTATSCHE . MAMR . . . N . RVLNDGE
UniRef100_A0A380TN06 F . ESTISM . . . AICSMIGDISGIIICDGAANS . CAMKVST . SVNAGLLGYV . MALD . . . N . TQVTGNE
UniRef100_A0A380WY28 EEIAG . . . ACTNIFANITGMICDGAAGS . CSMKISS . STAESITAAV . LAIN . . . G . VVSQANV
UniRef100_A0A381J8Z7 Y . E . AISY . . . AVKNMVAGLSGMICDGAAGG . CALKIST . SVSSAIQSAV . LATN . . . G . IEVSCKD
UniRef100_A0A381J983 I . KNIKY . . . AIKNNMIGNISGMICDGAAGT . CSLKIAT . GINAAIQCAT . LALK . . . D . VEPKESQ
UniRef100_A0A386H461 I . EOIEG . . . DIKNNMAGS . GMIICDGAAGG . CSYKIAS . V . GAAIDAAK . MAMK . . . N . IFIPDR
UniRef100_A0A389NM166 GT . L . REIEE . . . TVQNIIGDISGVFCDGAKV . CATKIAS . IDAFQAHY . LVK . . . DN . MNMSDM
UniRef100_A0A395YH27 D . EOIGW . . . ATRNMTGS . IAGMICDGGKTG . CALKLSA . MTGTSIAL . LAVN . . . G . VGLRPTD
UniRef100_A0A395YJK7 GD . Y . DAISK . . . IITNTVANAGGIVCDGAKES . CACKIAF . LEAFMAYE . MSL . . . EG . HVFPGE
UniRef100_A0A396KX23 GD . Y . SRVCH . . . TIVNTLAITS . GIIICDGAAPSC . CAAKIAS . AVDAGIMGY . MAKE . . . N . KEFYCGE
UniRef100_A0A396Q5W0 G . GY . KEV . . . TVVNALAIVSGIVCDGAKS . CAAKIAS . AVDAGILGYN . MYIR . . . G . QQFYGGD
UniRef100_A0A398CVJ7 T . MEMLG . . . AMNMV . . . ISGVVCDGAAGG . CSLKVAL . ASGWAVESAL . LAAS . . . G . AIVPSCD
UniRef100_A0A398D866 ROIRA . . . AIQNNMLGT . VGMICDGAAGG . CAMKVAT . VFAAMQSAI . LAIE . . . G . MSISPIE
UniRef100_A0A399TA84 GG . F . KEVAH . . . TIVNALAIVSGIVCDGAKS . CAGKIA . TAVEAGILGYH . MYKN . . . G . QQFYGGD
UniRef100_A0A3A4ZUG3 DLDRK . . . ITL . . . AVNTLVSD . LGMLCDGAAGG . CALKVVS . STDSATIRAAV . MAIN . . . G . HGITAE

UniRef100_A0A3A5R7E4 NGD.A..RKMAK...TVTNTLANVGGILCDGAKPSCAAKIASLSQAALMAHA.MSM...KD.RVFKGGE
UniRef100_A0A3A6NWZ1 I.KHMAG...AIMNLIQDLAAGVVDGAKAGCAIKLATAAGTAVQASL.FALQ...G.VTVQPTD
UniRef100_A0A3A6QCRC F.EIISA...SICSMIGDLAGIICDGAITS CAMKVSSAGTAVKSCAL.MAID...G.IRVTGN
UniRef100_A0A3A8U1P1 D.EIIGN...AITNMSGNLTGMICDGGKIGCALKLATATNAAMMCAS.LAMS...D.VVLQPTD
UniRef100_A0A3A8UIV9 GD.Y..ATVAH...TLVNALAI VSGIICDGAKPS CAGKIAA V DAGILGYQ.MYVN...G..QQFRGGD
UniRef100_A0A3A8UPV0 GG.Y..AEVHAH...TIVNALAI VSGIVCDGAKASCAAKIASAVEAGILFGYA.MYRQ...G..QQFRGGD
UniRef100_A0A3A8Z6E7 G..GY..EEVIH...TIVNALAI VSGMICDGAKAS CAGKIAA IDAGVLGYR.MYQN...G..QQFYGGD
UniRef100_A0A3A9AN50 GD.Y..EAVSR...TITNTIANMGVVVDGAKSSCAAKIASVDAAIMAYM.LEN...AD.HCFKPGD
UniRef100_A0A3A9BHR1 G..GF..KEIVH...TIVNSLAI VSGIVCDGAKASCAAKIAA V DAGLLGYN.MYLR...G..QQFYGGD
UniRef100_A0A3A9BSG2 D.AQIIGN...AVINMSGNLTGMVCDGGKIGCALKLATATNAAMMCAY.LAVS...D.VVLQGT
UniRef100_A0A3A9CYB0 KD..L..KVINH...TIVNALAI VSGIVCDGAKASCAAKIAMAVEAGILGFE.MYOE...G..NQFKGGD
UniRef100_A0A3A9EDE3 GD.Y..KTIHAH...TIVNALAI VSGIICDGAKPS CAGKIAA V DAGILGYQ.MYMN...G..QQFKGGD
UniRef100_A0A3A9EDL9 G..GY..KEIVH...TIVNALAI VSGIVCDGAKASCAAKIASV DAGLLGYN.MYKR...G..QQFYGGD
UniRef100_A0A3A9ELN6 GS.F..AAIAH...TIVNAVAI VSGIICDGAKPSCAAKIAA V DAGILGYH.MYLA...S.QEFKSGD
UniRef100_A0A3A9FPZ7 GS.Y..EATIAH...TIVNAVAI VSGIICDGAKPSCAAKIAA V DAGILGYD.MYRN...Q.QEFKGGD
UniRef100_A0A3A9FW91 GG.L..EDVSN...TIVNTIANVGGIVCDGAKSSCAAKIASVDAAIMACC.MTE...NS.KTFRSGE
UniRef100_A0A3A9HQU2KEVDG...AIRNVVGSVFGILCDGAKHGCALKLISMSSGVATESSY.MAMN...G..HFVKGGD
UniRef100_A0A3B8RB37 Y..A..QICD...AIKKNVANLTGMICDGAKPS CALKISSGVTTAMMSAM.LSMS...G..KCVTSAE
UniRef100_A0A3B8XA78 Y..KEVCA...AIKKNMAGNITGMVCDGAKVGCAMKVASGVSCAVQSAV.LALR...G.TCIPSTD
UniRef100_A0A3B9ECG9 V.SQIEA...QINNMVGMAGIICDGAKPS CAFKALMAVGLALDSAC.LSME...N.VRIPSGE
UniRef100_A0A3B9FAN4 Y..ERACY...AAKNMIAI LTGMICDGAKPS CSLKISSGVSAVLSAT.MAME...G..RHSVTA
UniRef100_A0A3B9IBT1 GS.Y..EQIGG...TITNTLGNVGGIVCDGAKPSCAAKIASVHAAILLGHY.MST...SQ.KEFMGGD
UniRef100_A0A3B9Q7L5 LT..D..NAILG...VIRNALAI VSGILCDGAKSSCAAKISMAVEAGILLALD.MYKN...H..QTFKAGD
UniRef100_A0A3B9RT85 LT..L..EIMDR...AINTMI GNLTG IICDGAKMT CSLKIYSCVEAANLACK.LAFR...G..YSPGNES
UniRef100_A0A3B9TS24 F.EMAER...AVAVMIADLVGMICDGAKEITCALKVGTGAIEAYYAAK.LALR...G.G.LKPPQ
UniRef100_A0A3B9YD34 DLKAIIGL...AINNVIISD IGMCLCDGAKSG CALKVVSSTDTAIRSAY.MGIH...R.YGITEVE
UniRef100_A0A3C0D3C1HEVCC...TIQNMVGNITGMVCDGAKAD CALKISTGTGNAACQAA.MGVR...G.G.VRVQSTD
UniRef100_A0A3C0KX94 DIERKTY...AIDNVIIDLCGIICDGAAGCSMKVITGAEAMRSASF.MALA...G.FGLSDD
UniRef100_A0A3C0NP20 GR..F..ETIHAH...VIVNTVAVTSGIVCDGAKASCAAKIAA V DAGILLGLA.MVRD...G..NEFYGGD
UniRef100_A0A3C0SSE4EOMKY...TINNMASSITGMICDGGNVGCVMKGIVAVDAAYRSLE.LAMN...N.YIEDIH
UniRef100_A0A3C1ELK2 D.DIPGITL...AVNNVIISD LGMLCDGAKSG CALKVVSSTDSAIRSAY.MGIH...H.YGITSRE
UniRef100_A0A3C1F9S1CVPVATL...AINNVIISD IGMCLCDGAKSG CALKVVSSTDAAIRSAY.MAIH...D.YGITEVE
UniRef100_A0A3C1Q9K3 W.MHSAC...AMQLVLANTAGIVCDGAKGT CALRVGTAAECYLAAL.IAVN...D.SGINDAQ
UniRef100_A0A3D0MPX6EOVER...AINTVVGSITGGILCDGAKLGCAMKLANAVGTAMESAY.LAMN...N.TSIRSGD
UniRef100_A0A3D1D0D1 Y..GRVCA...AIQNMVANLTGMICDGAKPS CSIKTCSGVSSALLSAL.LSMO...R.HCVTAAE
UniRef100_A0A3D1HKK1 Y..EQISF...AVKNMIAI LTGMICDGAKPS CALKLITGVSTAVLSAM.FALQ...H..KYVTSVE
UniRef100_A0A3D1M5K9 LG..L..PGIEA...AVSNLAVVSGMICDGAAGSSCAGKIAFVVEAGIMGK.QFLT...S..NSYKGGD
UniRef100_A0A3D1N2N5NLKAAATL...AVNNLIISD LGGTLCDGAKSG CALKVASSSDSAIRSAY.MAIN...G.EGISELE
UniRef100_A0A3D1NE50 GR..F..EEIAH...TIVNALAMTSGGIVCDGAKPSCAAKIALAVEAGILGFL.MFOH...G..QFYGGD
UniRef100_A0A3D1T396 N.TQIEL...AVKTVLSSLAGMVCDDGAKSGCSLVKNNAAGEAFMASY.FALE...G..LGISTSQ
UniRef100_A0A3D1V9H2 GQ..F..REIAH...TIVNAIAIDSGMICDGAAGSSCAAKIASAVEAGILGMQ.MQMH...E..SQFYGGD
UniRef100_A0A3D1WY02 V.EAMDR...AVNTMVGNLTG IICDGAAGT CALKIYSSVEAAATSSR.LALK...G..TSPSDES
UniRef100_A0A3D1X7S0 GR..Y..DEIAH...TIVNALAINSGMLCDGAKASCAAKIASAVEAGILGLQ.MYRH...D..SQFYGGD
UniRef100_A0A3D2BIJ5 Y..EPIAM...AISSMIGD ISGVICDGAASNCAMKVSTGASAAYKAVL.MALD...N..TYVTGND
UniRef100_A0A3D2GB33 T..YKLNK...AINNVLATLFGMTCDGAKRS CALKASIGTQMAIDSA.LSLK...N..VNVPCGN
UniRef100_A0A3D2GZC8 E.GEMVQ...AARNLIGSVSGMICDGAKEGCASKVALSAGLVAEAC.LALE...G.G.GIHAQD
UniRef100_A0A3D2I8K7 AD..C..EGISH...TLENVAMISGCIICDGAAGSSCASKIAMGVSCGILGYD.MYAG...G..GNFRPGD
UniRef100_A0A3D2KM10EEVES...AVQLAAGGLFAMVCDGAKSG CALKIGEGAAVAVNAGR.LARL...GGS.IPVGE
UniRef100_A0A3D2ND9A F..TRVCH...AVQNMIANLTGMICDGAKPS CSIKICSGVSSALLSAL.LSME...G..EHSVTA
UniRef100_A0A3D2P0A7DQVVG...AINNMVGAISGMVCDGAKGGCAYKLSTAASEAVIQAY.LAVN...G.VVISKLD
UniRef100_A0A3D2SHK3 F..PQVAS...AVQNMIANLTGMICDGAKPS CALKVASGVSTAVLSAM.MAME...N..RCVTSVE
UniRef100_A0A3D2W3X1 GN..E..KDI SH...TIVNALAI VSGIVCDGAKSSCAAKIATAVETGIFGYE.MYQN...G..QQFYGGD
UniRef100_A0A3D3CDZ3 T..DKAKA...AVQA VVSNL LGMLCDGAKES CAFKVGTGAMEAYHAAV.MASR...G.VA.LEAQ
UniRef100_A0A3D3FT93 GS..Y..EEICG...TITNTIANVGGMICDGAKPSCAAKIASVDAADAI MAWH.LSAE...G..KVFPGD
UniRef100_A0A3D3MPV7 Y..EHICH...AVKNMIAI LTGMICDGAKPS CSLKISSGVSTALLSAL.LSME...G..KYVTSAE
UniRef100_A0A3D3QSD6 V..EQIEA...SINNMIAGVSGMFCDDGAKIGCAAYKLAI SVDAAKDASS.MALS...G..IRIPSDN
UniRef100_A0A3D3RH36 GT.Y..EQVCK...TITNTIANVGGIVCDGAKPSCAAKIASVVEAAILAHN.MSM...NS.CCFQAGE
UniRef100_A0A3D3TC14 Y..EQICY...AVKNMIAI LTGMICDGAKPS CAMKVTSAGSTAVLSAM.LAME...Q..KCVTSVE
UniRef100_A0A3D3UQ13 L.HHIAS...AIFKNLIGDLAGVICDGAAGCALKLATAAGTAVQASL.FSLH...G..KVNKESD
UniRef100_A0A3D3W8G7 AD.Y..DVJGK...TIINALGNVGGIVCDGAKASCAAKISSV DAGIMGYE.MAK...RG.LVFPFGD
UniRef100_A0A3D4E8U0 Y..EQVCA...AIKKNMIAI LTGMVCDGAKVGCALKVASGVVACVQSCV.LALR...G.TCISTED
UniRef100_A0A3D4G5E1 AD..Y..EGICH...TITNAAAMISGCIICDGAAGSSCASKIAMGVETGILGYN.MYLR...G.NSFQPGD
UniRef100_A0A3D4LM30 N..E..QIKG...SINNMIAGISGMCLCDGAKLGCAYKLISVDAVDAAK.MALE...K..IYIPEDN
UniRef100_A0A3D4MUG6 GD.Y..DAVAH...TIVNAVAI VSGIICDGAAGSSCAAKIAA V DAGIMGYR.MYIH...H..REFRHEG
UniRef100_A0A3D4QA04 GD.Y..PHIGR...TITNTIANVGGIVCDGAKPSCAAKIAA V HAAILLGHY.MSV...SD.KQFKAGE
UniRef100_A0A3D4XHK1 Y..DQICY...SINKNMIGNITGMVCDGAKVGCALKVASGVSSAVQSAI.LALD...N.TCISDN
UniRef100_A0A3D4ZGW0 L..VEMDR...AFNTMVGNLTG IICDGAKMT CALKIYSCVEAANLACK.LAIR...G..YSPGNES
UniRef100_A0A3D5MNT0EEVES...AVQLAAGGLFAMVCDGAKSG CALKIGEGA VAVGTAGR.LARL...GGF.IPVGE
UniRef100_A0A3D5NPE1KEILG...AIONNMLGNVTGMLCDGAKGG CALKVATCTSAASLSSS.LAMN...G..TAIGSTE
UniRef100_A0A3D5PD50 GG.Y..SEIAH...TIVNALAVCSGMICDGAKPSCAAKIAVAVEAGILGYA.MSLN...G..KEFLDGE
UniRef100_A0A3D5TF23 AG.Y..DGISR...TICNAVAMISGCIICDGAAGSSCASKIAMAGTGLGYN.MYLG...G..GNFRPGD
UniRef100_A0A3D5U8T4 Y..HKVEY...AIKKNMIGNTAGMVCDDGAKGCSLKVATNTSAAVQSAI.LAHM...G..KCIASND
UniRef100_A0A3D5UCW1 T..EQIKG...SINNMVAGISGMCLCDGAKLGCAYKLISVDAVADASE.MALK...N..IFIPDDN
UniRef100_A0A3D5YS30 FS..Y..TIIAN...AIINTLAGVSGILCDGANSSCAVKIANGTYAAYDIA.MAAN...G..NVITAGD
UniRef100_A0A3D6BI84 GS..Y..EAVSA...TITNTLGMISGTVCDGAKPSCAAKIASAVEAGILGFD.LYEK...G..KALHGGD
UniRef100_A0A3D8J5V0 F..EVISR...GICNMIGD ISGILCDGAKSSCSMKVSTTVQSAFKSLL.LALE...K..SRVSGKE
UniRef100_A0A3D9A061 Y..DTAAA...AINNMGDAPGMVCDGAGCA CAMKVATAVSSMYRAVN.LALQ...G..IQIPASN
UniRef100_A0A3E2ND12 GG.Y..EEVIH...TIVNALAI VSGIVCDGAKASCAAKIASVIEAGIFGYS.MYSQ...G..QQFLDGD
UniRef100_A0A3E2TUT9 GT.Y..EDI SA...TIVNTIGNVGGIVCDGAKSSCAAKIASVDAADAILGHF.LGR...KH.HWFQPGD
UniRef100_A0A3E2UCE9HEICC...AIQNMVGNVTGMVCDGAKAD CALKISTCVNAACQAAA.MGTR...G.G.VRVQSTD
UniRef100_A0A3E2VXF0 GD.Y..DHI CH...AIVNALAI VSGMICDGAKPSCAAKIASV DAGIMGCM.MYQR...G..KQFYRGE
UniRef100_A0A3E3DCN8 AD..F..KAIAH...TIVNSLAI VSGIVCDGAKPSCAAKIAA V DAGILGYS.MYLN...G..QQFYGGD
UniRef100_A0A3E3DHD3 M..EDIKS...AIRNMIAI VSGIICDGAAGCALKKTGTVSSGAFQCSM.LALN...K..KSAGNLD
UniRef100_A0A3E3E7L6 GD..L..HAISH...TIVNGIAMISGTVCDGAKPSCAAKIASALEAGILGYE.MYKN...G..QQFKDGE
UniRef100_A0A3E3E836EQIDH...VIRNMASSITGMICDGGNHGCVMKGMAAVDAIFESAQ.LAMA...D.VSIESVH
UniRef100_A0A3E4F607 G..GY..EEVIH...TIVNALAI VSGMVCDDGAKASCAAKIAA V DAGILGYN.MYQL...G..QQFYAGD
UniRef100_A0A3E4GUD7 GH.A..YEI SH...VIVNAVAI VSGVCDGAKASCAAKIASAVEAGILLGLQ.MQKN...G..KQFYGGD
UniRef100_A0A3E5BSB1 Y..EQVSY...AIVQNMIANLTGMICDGAKPS CALKVITGVSTAVLSAI.MAME...N..RCVTSVE
UniRef100_A0A3G9GU85 GG.Y..DEVSH...TIVNSLAI VSGIICDGAAGSSCAAKIATAIDAGILGYH.MYKE...G..QQFYGGD
UniRef100_A0A3G9JP81 G..DY..KTI TH...TIVNSLAI VSGMICDGAAGSSCAAKIASVDAAMLGYE.MYKO...G..QQFKGGD
UniRef100_A0A3N0IVE1 G..GY..EDAIH...AVVNALSIAGMVCDDGAKPS CAGKIAFVSNAGIMGYV.MYRD...G..QQFYGGD
UniRef100_A0A3N1WC8R L..DTISM...AINSMVGDVSGIICDGAANS CAMKVSTGASASAILKAVL.MALD...S..TAVTGER
UniRef100_A0A3N1YL98 R..ETSKK...AVKHVIQNIISTLLCDGGKMA CSLKVLQGA SVGYDSAK.FVLN...S..A.MQVYED
UniRef100_A0A3N2DXY3 F..AQSCS...AIQNVLSDCSGMVCDGAKST CAMKVKTSTRSAFMSLL.LAMN...S..IEAHQD
UniRef100_A0A3N2KSY6 F..SEVCS...AIVKNVANLTGMICDGAAGSSCALKISSGVSTAMMSAM.LAMN...G..KCVSSAE
UniRef100_A0A3N2MDS5 Y..DEICA...SVKNMIAI LTGMICDGAKPS CSLKISSGVSTAMMSAM.LAMN...G..KCVTEAE
UniRef100_A0A3N2N806 F..NEICA...AIVKNVANLTGMICDGAAGSSCAMKISSGVSTAMMSAM.LAIN...G..KCVTASE
UniRef100_A0A3N5KH61 DLKGIGL...AVNTLISD LGMLCDGAKGG CALKVVSSTDAAIRSAY.MAIN...G..HGITAVE
UniRef100_A0A3N5LTA0 V.LDIAN...AIFKNLSD LAGVICDGAAGCALKLATAAGTAVQAA.FSLQ...G..VRVHHRD
UniRef100_A0A3N5Z0J3 DLEKVN...AIVNTLVSD LGMLCDGAKAG CALKVVSSTESAIRSAY.MALN...G.G.HGITEE
UniRef100_A0A3N6MSR7 F..GVLER...AIVSNMGDI VSGIICDGAANT CAMKVSTATTSAFYSVL.LALQ...R..TRAGSGD
UniRef100_A0A3N9QP67 E..ESVNM...AICSMVGD LAGMICDGAANS CAMKVSTTASAYKYSVL.MARD...D..SRVTGHE
UniRef100_A0A3P1Y7P1 D.HQAQK...AMELVMGNI VGMVCDGAKES CALKVGTGATEAFYAAK.IALS...D..GGMEVSG

UniRef100_A0A3P1ZCK5 Y . DHVAA . . . AVKNMIANLTGMICDGAKPS CALKLTS GVSTAVLSAM. LAMQ . . . G . ECVSSVE
UniRef100_A0A3P1ZVF1 NQLAG . . . VINSMSTL LAGMLCDGAKGG CAFKLTA TASEAVLICAL. LASQ . . . N . THVGYGQ
UniRef100_A0A3P3R193 G . SL . EAVEH . . . TVVNTLAI VSGIMCDGAKES CAAKIAS SVDAATMGLS. MYRD . . . G . QAFHGGD
UniRef100_A0A3Q9B6K4 KBI . EKEIEG . . . AAQNMLANITGMICDGAKES CSLKLTSTAGEAVIYASY. MAYN . . . N . VIIPLKV
UniRef100_A0A3R5WWV7 G . GF . EEVTH . . . TVVNALAITSGVICDGAKAS CAAKIAS AVNDAAGILGYN. MYIR . . . G . QOFYAGD
UniRef100_A0A3R5Z781 HAMAR . . . TINNMSSSITGMICHGNGKGTCTMKGIVAVNAAFQSDAF. FAMH . . . E . YIDEIH
UniRef100_A0A3R5Z241 N . EOTGY . . . AVRNMTGTVTGMLCDGGKVG CSMKVAT GSTAAILMSAI. TAVY . . . D . AFLRASD
UniRef100_A0A3R6AZQ5 GR . Y . EEIAH . . . TIVNSLAI VSGIICDGAKPS CAGKIAAS VDAAGILGYQ. MYED . . . G . RQFRGGD
UniRef100_A0A3R6J8M8 AS . Y . DEVVH . . . TVINAVAI TSGMVCDDGAKAS CAAKIAE AVDAGITIGYY. MAKR . . . G . QNFDDGD
UniRef100_A0A3R6NDL9 ACIDR . . . AINNTV VNF GVVCDDGAKLA CALKLSSAIGIATIECAM. MAKD . . . D . VMTPADQ
UniRef100_A0A3R6NZK5 QOVEN . . . AIONTPNIFGVVCDDGAKLA CALRLSSGTGIGIEAAN. LALA . . . G . VRLANNQ
UniRef100_A0A3R6PRW7 G . GY . EAVIH . . . TVVNALAI VSGVICDGAKAS CAAKIATAVEAGILGYN. MYIR . . . G . QQFRGGD
UniRef100_A0A3R6Q0J7 G . GL . KEVEH . . . TVVNALAI VSGVICDGAKAS CAAKIAS AVDAGILGYN. MYIR . . . G . QQFRGGD
UniRef100_A0A3R6SQM7 GD . Y . KVLIH . . . TVVNALAI VSGVICDGAKAS CAAKIATAVEAGIMGYD. MYMC . . . G . QEFHAGD
UniRef100_A0A3R6VXH6 AD . F . DTHAE . . . TITNTLAN VSGIVCDGAKAS CAAKIAS SVNAAIMAYY. MAA . . . EH . RGFQSGE
UniRef100_A0A3S0AVY6 FD . Y . DTTAK . . . AIINTLAG VSGVLCDGANSS CAVKIANGTYAAYDGA. MAAN . . . G . NVVTDGD
UniRef100_A0A3S0AXB5 Y . TQAEI . . . AIKNMVGDAPGMICDGA GCS CAMKVGT SVSSMYRSVN. LAMQ . . . D . TAIPCSN
UniRef100_A0A3S6F254 Y . DAVAM . . . AISSMIGD ISGIICDGAANS CAMKVST SVTAAYKAVL. MALD . . . H . SGVTGNE
UniRef100_A0A3S9GWJ1 Y . EQAVL . . . AVKTLT LANTAGMVCDDGAKES CALKVGTAAFEAYLSAL. FALD . . . D . KGIDSAQ
UniRef100_A0A3S9PA89 GD . V . RAIE . . . AIINTLGN VSGVICDGAKAS CATKIAS GYISAFDGM. LAQM . . . G . NVLQSED
UniRef100_A0A3T0I0D0 G . IKA . . . AIONTIGN VSGMICDGAAG CAMKVST CSNVAVQSAL. LALN . . . H . QEIQSTD
UniRef100_A0A3T0L0Z0 R . NTSKN . . . AVSYLIQT INGVICDGA KMG CSLKVMLGAQSSGYEAAV. FALD . . . N . KPVFSD
UniRef100_A0A401MOC1 Y . NOVAF . . . AVQNMIANLTGMICDGA KPS CALKVTTGVSTAVLSAM. MAME . . . N . RYVTSVE
UniRef100_A0A401UQW0 E . IDG . . . TIVNTLAN VSGMICDGA KEG CALKLSTASAVQSAL. LAIN . . . G . SI VPARN
UniRef100_A0A410DCK0 GG . Y . EEIAH . . . TIVNALAITSGVICDGA KPS CAAKIASAVDAGILGYH. MYQN . . . K . QQFFGGD
UniRef100_A0A410PIL5 CG . Y . KEIAH . . . TLVNAVAI VSGIICDGA KPS CAAKIATSV DAGILGY. MYKE . . . G . QQFRGGD
UniRef100_A0A410PZ62 GD . Y . DAVAH . . . TLVNALAI VSGIICDGA KPS CAAKIATAVEAGILGFE. MYRN . . . E . KQFVNGD
UniRef100_A0A413CYD7 K . E . IGY . . . AIKNMTGT VTMICDDGK VGG CSLKVTTGT VSAAILCAK. TAIN . . . N . APLKSDS
UniRef100_A0A413G3M3 E . OMTH . . . TIVNMASITGMICDDG NQG CTMKGIVAVDAAFKSV. LAMN . . . G . TYIFDVH
UniRef100_A0A413G636 F . DAIER . . . TVVNMIAITGMICDGA KAS CSLKVAAALQCCFNAVN. LAMS . . . G . IRVTSIQ
UniRef100_A0A413J6J2 G . GY . AEVTH . . . TVVNALAITSGVICDGA KAS CAAKIAAAVDAAGILGYN. MYIR . . . G . QQFRAGD
UniRef100_A0A413JB40 E . MMEH . . . TIVNMASITGMICDDG NQG CTMKGIAA VDAAYQSAE. LAMD . . . G . VYIDDVH
UniRef100_A0A413VL79 E . OVQY . . . AFSNTFVNSF GVVCDDGAKQA CAMRLAVGTGVAVDAAR. LAMK . . . N . VHLPFNM
UniRef100_A0A413WGH3 AD . L . DGIH . . . TLVNALAI VSGVVCDDGAKAS CAGKIALAVDNGILGYE. MYLE . . . G . QQFMGGD
UniRef100_A0A413XHM0 GD . Y . KTHAH . . . TLVNLAI VSGIICDGA KPS CAGKIAAAVDAAGIMGY. MYLN . . . G . QQFMGGD
UniRef100_A0A414FT31 Y . KQVAY . . . AVQNMIANLTGMICDGA KPS CALKLTS GVSTAVLSAI. LAME . . . G . KCVTSVE
UniRef100_A0A414G090 GS . R . EOVGA . . . TIVNTLGN VSGVICDGA KAS CAAKIASAVDAAILGCD. MAQ . . . AG . RGFRAE
UniRef100_A0A414RYC9 GG . Y . EEVTH . . . TVVNALAI VSGVICDGA KAS CAAKIASAVDAGILGYN. MYIR . . . G . QEFYGGD
UniRef100_A0A415E212 K . TOI . . . AIKNMTGNITGMICDGA KPS CAMKVSSGVSTAMLSAL. MAME . . . N . KVVTSVE
UniRef100_A0A415EKW6 MN . Y . EEISE . . . VITNSIATIGGMACDDGAKSS CAAKIAAAVECATVAIH. MARK . . . K . RAFKSGE
UniRef100_A0A415T4U2 CT . Y . E . ICA . . . VFTNALAI VSGMICDGA KPS CAAKIATAVDAGIMGAQ. MYIR . . . G . KSFHSGE
UniRef100_A0A415XBZ7 GD . Y . QHIGR . . . TITNTLAN VSGVICDGA KSS CAAKIAASVNAAILLAHY. MSM . . . SD . KQFQAGE
UniRef100_A0A415XE99 E . DY . QAVIH . . . TIVNTLAN VSGVICDGA KAS CAAKIASAVDAAILGYH. MYKN . . . G . QEFKSGD
UniRef100_A0A415YM35 D . QIAL . . . AVQNMAASLTGMICHGNGQG CALKARAGVQCAWDMSR. LALQ . . . S . LAVDSRH
UniRef100_A0A415YVU5 L . P . IER . . . GQISMLANHGMICDGA KTT CALKIATG IQSAVLCAT. LAMQ . . . D . ISPTKE
UniRef100_A0A416EL32 GR . L . KEIAH . . . TLVNSIAI VSGIICDGA KPS CAGKIASV DAGILGYD. MYIN . . . G . QQFYGGD
UniRef100_A0A416HBG5 L . KNIFA . . . AVRTMTADISGMICDDGAKPG CALKIATSVNAAARAAQ. LAIN . . . G . IGATQDD
UniRef100_A0A416HK58 G . GY . EEIVH . . . TIVNTLAN VSGVICDGA KAS CAAKIASAVDAGILGYC. MYRS . . . G . QEFVGGD
UniRef100_A0A416HL10 AD . Y . DTHGR . . . TIIVNSLGN VSGVICDGA KSS CAAKIASAVEAGILLAYE. MAK . . . NG . RTFAFGE
UniRef100_A0A416JVW4 G . DY . DVIAH . . . TVVNALAI VSGVICDGA KAS CAAKIATAVEAGIFGYN. MYIR . . . G . QEFYGGD
UniRef100_A0A416Q9J4 GD . Y . NAI . . . TITNTLAN VSGVICDGA KSS CAAKIASAVDAIMAYY. LED . . . AD . HCFQAD
UniRef100_A0A416S2B0 GG . F . EEVVAH . . . TLVNSLAA VSGVICDGA KPS CAAKIAASVEAGILGYD. MFRD . . . K . RKFVGGD
UniRef100_A0A416VY79 Y . E . I . . . AVKNMIANLTGMICDGA KPS CAMKLTS GVSTAVMSAM. MAMD . . . N . KCVTSVE
UniRef100_A0A416ZGX8 GT . R . E . I . . . TVVNTLGN VSGVICDGA KAS CAAKIASAVDAAILGCD. MAL . . . AG . RGFRAE
UniRef100_A0A417NH30 AD . Y . ATVAH . . . TVINAVAVTSGVICDGA KAS CAGKISAVDAGIMGYE. MCLT . . . G . NNFHAGD
UniRef100_A0A418MGM1 D . VLAS . . . VVKNIVGNLAGMVCDDGAKGG CALKVATSCGEAIIISAO. LALR . . . G . VSISNGD
UniRef100_A0A419T1W2 GT . V . A . IEH . . . TVVNTIAN VSGMICDGA KAS CAAKVSSALQAAILGHQ. MAM . . . EG . ITFEAGE
UniRef100_A0A419TA55 Y . HNI . . . TIVNMIGD IAGMICDGA KPG CALKVSTGVSAAIKSAL. LAID . . . G . IBISEYD
UniRef100_A0A420E9F4 L . SKIET . . . CIQLMVADATGVFCDDGANAG CALKVSTGAANAIKTAL. LAMS . . . PG . LDPQADM
UniRef100_A0A420YXY9 K . NQSSY . . . AIONNMVGNV TGMICDGA KPS CSLKASTGVSSAMISAL. LAME . . . D . ERCSSLE
UniRef100_A0A425VU58 E . EOMGL . . . AINRMNMTGT VSGMICDDG KTG CAMKLAMATSAAYLSAR. MAVG . . . G . SVLRVSD
UniRef100_A0A425VYX7 GS . F . GQFEA . . . TIVNTLAN VSGVICDGA KPS CAAKICAAVDAAILGCD. MAL . . . SD . DNFLAGD
UniRef100_A0A425WC06 GS . F . GQYQA . . . TIANTLAN VSGVICDGA KPS CAAKIAAAVDAAILGCD. MAL . . . AN . VDFNPGD
UniRef100_A0A425XYU1 L . NHLNS . . . TLKNMTGSVTGMICDDGANSS CAQKISASV CAGTQSSL. LAIN . . . S . QCLKNMD
UniRef100_A0A427URN7 Y . DTHAM . . . AIGSMIGD VSGMICDGA SNS CAMKVSTSAAAWKA VL. MALD . . . G . TAVTNGE
UniRef100_A0A428LKM1 Y . RTISM . . . AIGSMIGD VSGMICDGA SNS CAMKVSTSSAAWKA VL. MALD . . . D . TAVTNGE
UniRef100_A0A430A0E4 Y . ATTAR . . . AVNNMIGDAPGVICDGA GCS CAMKVASAVSSLYRAAN. LALR . . . S . IEPSSN
UniRef100_A0A431I1N7 FD . Y . DTHVAN . . . AIINTLAG VSGVLCDGANSS CAVKIANGTYAAYDGA. MAAN . . . G . NVVADGD
UniRef100_A0A431IVU9 GD . Y . DKV . . . AIINTLAG VSGVFCDDGANSS CSIKIANGTYAAYDGA. SAMN . . . G . NVVTSGD
UniRef100_A0A431WCD8 Y . QQSFC . . . AIONVMSDCSGMVCDDGAKST CAMKVSTSTGSAYNAFM. LAIQ . . . S . TAAQDQ
UniRef100_A0A437S6P3 RP . V . NVLEE . . . TSNALVNSGLLLCDGAKPS CAMKIASLRNAPLAYE. QALS . . . G . ISFKSGD
UniRef100_A0A443YTF2 A . KHIAG . . . AIKNMLLEDLAGIICDGA KTG CALKIATAGTAAYQAL. FSLQ . . . G . VNVHSTD
UniRef100_A0A444JRK2 F . E . I . . . AICSMIGDITGIICDGA KTS CAMKVSSASAAYKAAL. MALD . . . G . RMVSGNE
UniRef100_A0A448TT4 Y . EQSCF . . . AAQNVLSDCAGMVCDDGAKST CAMKVKTATNAAINGFL. MALQ . . . H . KEAHNQ
UniRef100_A0A482PTU1 Y . STISM . . . AIGSMIGD VSGMICDGA SNS CAMKVSTASAAYKA VL. MALD . . . D . TAVTNGE
UniRef100_A0A484HIQ5 GG . F . EEVVAH . . . TLVNALAI VSGIICDGA KPS CAAKVAAVSDAGILGFH. MYQK . . . G . QQFYGGD
UniRef100_A0A486KPW8 I . NTINT . . . AINNMVSDITGMICDGA SNS CAMKVSSVSSAFKAVL. MAMO . . . N . SCAGAND
UniRef100_A0A486X8W4 F . ETVSM . . . AISSMIGD ISGIICDGAANS CAMKVSTSVTSSYKAVL. MALD . . . N . MQVTGNE
UniRef100_A0A491FMG0 F . KOIEG . . . AIENTMIDALSGMICDGA KAG CALKLSSAASATQSAI. IAKQ . . . D . CFVPLN
UniRef100_A0A495RET5 F . DAVSM . . . ALCNMVGDITGIICDGA SNS CAMKVSTSSAAYKSVL. MALS . . . A . VRVTGNE
UniRef100_A0A496NC54 GG . F . EEVEH . . . TVVNAVAI LSGMICDGA KSS CAAKIAAAVDAAGIFGYT. MYKS . . . G . QQFYSGD
UniRef100_A0A497KJ80 P . KQAEV . . . AVAGLMA SLMGMTCDGGKGS CAFKVSTTAAGEAYLFAL. IALM . . . G . GGVNQTD
UniRef100_A0A497QPB3 ENVHT . . . AINLLAGGMVGLMCDGAKDG CALKVSYSSQAAYVESAF. MALS . . . N . YRLSDEN
UniRef100_A0A498R6S7 THIKY . . . AVQNMLGNVTGMLCDGAKAG CAMKVATCTASAAVQSAI. MAVE . . . N . RSIQATD
UniRef100_A0A498R9H5 F . DTVSM . . . AISNMVGD LVGMICDGA SNS CAMKVSTTAAACAKSVL. MALE . . . G . TRVTGYE
UniRef100_A0A498RDK6 AG . Y . DVIGK . . . TILNALGN VSGVICDGA KAS CAAKIASAVDAGILGYE. MAK . . . RD . LVFPFGE
UniRef100_A0A4D4IWI1 L . AAIHR . . . AINSMIGD VSGVICDGA KAG CAMKVSTGASSAVKSAI. LAVA . . . G . RCVSSQ
UniRef100_A0A4QOV0H1 L . EO . IYG . . . AIKNMIAG ISGMICDGA KLG CAYKLCTSVSSSIDAAR. MAIK . . . N . ICFVPSN
UniRef100_A0A4Q1DCD8 ETLKA . . . TIQNMIGTSTGMLCDGAKAG CALKVASTYAAATQATN. LAIR . . . G . VBIQATD
UniRef100_A0A4Q2A3G4 SKLPH . . . IDTMVANS LGMTCDGAKLG CSLKLTSTATAAGTQSVY. LKHH . . . N . SYADMKN
UniRef100_A0A4Q2BNQ7 EN . E . STIEH . . . TVVNLAI LSGTICDGA KPS CAAKIAMAVNAGILGFQ. MALA . . . G . KEFVHGE
UniRef100_A0A4Q7VJN1 L . THLSS . . . TLKNMTGSVTGMICDDGANSS CAHKIASVVSAGIQSSL. LAIN . . . S . QCLSNVD
UniRef100_A0A4Q9DKZ5 L . PQMAG . . . ATKNNIAAGPTGIICDGA NYG CSFKVSTAVEAYYSAL. LALQ . . . G . AIATSSD
UniRef100_A0A4R1J9H0 S . EQVEQ . . . TIRYMLGD ISGIICDGA KPS CALKVSTGAQTAVKAAL. LALG . . . G . RSPSLD
UniRef100_A0A4R1PYR4 I . VKIEA . . . AMKNVIANLTGMICDDG KVG CALKLSTAAAAVESAL. LAQR . . . Q . IIVPSTN
UniRef100_A0A4R1R7W1 GD . Y . DAISR . . . TITNTLAN VSGVICDGA KPS CAAKIATSVDAATLAHE. MSL . . . DG . NTFGAGE
UniRef100_A0A4R2EW06 Y . E . I . . . AIKNMIAGLTGMICDDG KVG CSLKVSSGVSAAYKAAL. LALD . . . N . ICIQETD
UniRef100_A0A4R2FBL1 Y . ROISY . . . AVSSMIGD VAGVICDGA KNA CAMKVSSAGSAVKSSL. MAID . . . N . IHTVGQE
UniRef100_A0A4R2K5C7 Y . AQMTW . . . AINSMVAD ISGVVCDDGAKPG CALKIATAVQSAVRAAN. MALN . . . G . SGADSHD
UniRef100_A0A4R2LYB1 GG . F . EEVVAH . . . TVVNALAI VSGVICDGA KPS CAGKIAAAVSDAGILGYQ. MYLH . . . G . QQFYGGD
UniRef100_A0A4R3JWV7 E . IMAH . . . TIVNMASITGMICDDG NQG CTMKGIAA VDAAYKSV. FAMS . . . G . TYICDVH
UniRef100_A0A4R3L4U5 S . OITY . . . AINNIAAGNITGMICDDG NYG CALKAITAANVAYTSAI. FAIN . . . N . TAIPENE
UniRef100_A0A4R3T7I3 GD . Y . EHI . . . CH . . . TIVNALAITSGMLCDGAKPS CAAKIASAVDAGILGYA. MYKE . . . G . KQFYRGE

UniRef100_A0A4R3Z6J8 GD . Y . ET ICH . . . TLV NGLAI VS GIVCDGAK PS CAGKIAAS VDAGILGY . MYKN . . . G . YEFKGG D
UniRef100_A0A4R4AYC2 E . TV IAC . . . AIK NMI SD ISGMVCDGAS GT CAMKVST AATS AIKSVL MATN . . . G . ISAGSY D
UniRef100_A0A4R4E6M5 I . QOM EG . . . AIN NIA AN IT GMICDGNAYG CSFKVST SQVEAYFAAV LAIO . . . N . CMAST E
UniRef100_A0A4R4FDN4 G . GY . EEV IH . . . TVV NALAI VS GIVCDGAK AS CAAKIAS VDAGILGY . MYTN . . . G . QQFYGG D
UniRef100_A0A4R5JJC1 E . IO ISG . . . AMK SII AN LSGMICDGA KPS CSFKLAT SAGEA ITCAY LAIN . . . N . YIHAAQ D
UniRef100_A0A4R6GS1 GR . F . KEV AH . . . TVV NALAI VS GIVCDGAK PS CAGKIAS SVEAGILGYL . MYKN . . . G . QQFYGG D
UniRef100_A0A4R6PZB2 GD . L . DT I SH . . . TIV NALAI TS G IICDGA KAS CAAKIAVS VEAGIVGYE . MYQR . . . G . QQFYGG D
UniRef100_A0A4R6Q376 GD . L . TT I SH . . . TIV NALAI TS G IICDGA KAS CAAKIAIS VEAGIVGYE . MYEN . . . G . QQFYGG D
UniRef100_A0A4R7B040 A . GTV NM . . . AIC SMIGD LAGMICDGA S NS CAMKVST SVSA AWKAVL MAID . . . G . TRVTGN E
UniRef100_A0A4R7B5U9 Y . PAV AR . . . AIC NMIGD VAGMICDGA NNG CAMKVSS VAAAVKSVL LAID . . . G . TRVGGS D
UniRef100_A0A4R8M2K0 P . EKA AQ . . . AML VVLGN LVGMVCDGAK NT CALKVG TGALEYHAAL LVMN . . . G . H . APEP Q
UniRef100_A0A4R9C0K5 QN . F . KIV EE . . . TIS NALMIA SGMICDGA KPS CAAKIAT AVDAGITGFN LAKR . . . G . KSFIA G D
UniRef100_A0A4T2AMU8 T . KHM AG . . . AIT NLTED LAG IICDGA KSG CALKLAT AAGTAVQAAL FAVH . . . G . VNVHST D
UniRef100_A0A4U0ZN87 V . HHM EG . . . AIK NILED LAGVICDGA KAG CAIKLNTA AGAVQAAL FSLH . . . G . VNVKDT D
UniRef100_A0A4U1AB57 V . DHM AG . . . AIR NIMED LAGVICDGA KAG CALKLNTA AGAVQAAL FSLQ . . . G . INVKDT D
UniRef100_A0A4U1B1Y5 A . NH IAG . . . AIK NILED LAGVICDGA KAG CAIKLNTA AGAVQAAL FSLQ . . . G . INVKDT D
UniRef100_A0A4U8Q6N7 GD . F . KVI AH . . . TLV NSVAI VSG IICDGA KAS CAAKIAAS VDAGILGY . MYKN . . . G . KQFYSG D
UniRef100_A0A4U9P813 L . ENI NY . . . CIN NMISD LSGMICDGA KET CALKIAT GTNAAIQCAN LAIN . . . G . ISATAN D
UniRef100_A0A4U9R5U1 L . EEV KY . . . AIK NMAGN IVMICDGA KTG CALKVST GVSAAVMSAL LAID . . . H . IEISDQ D
UniRef100_A0A4V2Q9X5 Y . GAV EK . . . AIT NMIA NITG IICDGA KAD CALKVYAS LQA AFEAAY LAID . . . G . VCAAGI E
UniRef100_A0A4V2SB21 E . IO D G . . . AIK NMLAN VSGMICDGA KIG CALKLAT ASAVQAAL LAIS . . . D . N . VPAKN
UniRef100_A0A4V3RN36 F . ETA SM . . . AIC SMIGD LSG IICDGA NS CAMKVST SVASGYKSVL MAMD . . . E . TRVTGN E
UniRef100_A0A4V4N705 F . EOV GM . . . GVC SMIGD VAGMICDGA S NS CAMKVST ASSAYKAVL MAID . . . D . SRVTGE H
UniRef100_A0A4V5SD66 Y . KH I IY . . . AIK NMAGG ITGMICDGA KVG CALKVSA VGSATQ TAV LAMD . . . N . IGISHL D
UniRef100_A0A4V6RC87 Y . EO ISF . . . SVK NMIA NLTGMICDGA KPS CALKLITGVSTAVMSAM LAIQ . . . N . KHVTSAE
UniRef100_A0A4Y1WPX2 Y . REV AC . . . AVQ NMIA NLTGMICDGA KPS CALKVSSGVSTAVMSAL LAVE . . . G . KCVTSA E
UniRef100_A0A4Y1WYC0 Y . AEA AAA . . . AVK NMIA NLTGMICDGA KPS CAMKLITGVSTALLSAM MAMD . . . G . HCVTPV E
UniRef100_A0A4Y6IAG7 F . EQSC F . . . AIQ NVISDS SGMVCDGA KAS CAMKVST SSCAAVRSFL MAMN . . . S . QVVQGO .
UniRef100_A0A4Y8L2N7 Y . EOV TF . . . AVK NMIA NLTGMICDGA KPS CSMKLITGVSTAVFSAM LAME . . . Q . KYVTSV E
UniRef100_A0A4Z0D108 D . QKI KA . . . SIN NTLAG ISGMFCDGA KEG CAYKLSISVTAATEASH LAIS . . . G . VOIPYDN
UniRef100_A0A4Z0R9A9 A . EIK A . . . AIQ NMQGN TAGMFCDGA KVG CALKLSSCTNAAVLAAL MAID . . . G . IAIQPT D
UniRef100_A0A4Z0V643 F . EQ IAA . . . TT K NMIA NLTGMICDGA KPS CAMKLSSGVSTAVISAL MAME . . . G . HCVTSV E
UniRef100_A0A509D2G6 Y . DT I AM . . . AIS SMIGD VSGMICDGA S NS CAMKGLYVRGVGVS . . . GVD . . . G . VGRYGG .
UniRef100_A0A509LAY9 GR . F . KEV AH . . . TIV NALAI VSG IICDGA KPS CASKIAVS IEAGILGFH MYQR . . . G . QQFYGG D
UniRef100_A0A509LCQ3 GR . F . EEV AH . . . TIV SALAI VSG IICDGA KPS CAAKIAFS VEAGILGFH MFQK . . . G . QQFYGG D
UniRef100_A0A509LP8P L . IO I SA . . . TIK NMAAS ITGMICDGA KQG CALKVSA GVSAAVYCAL LAIE . . . GS . CTTDT D
UniRef100_A0A511Z2W9 Q . QV KKA . . . AVK NTIGN VSGMICDGA KAG CAMKVSTCSNVAVQSAI LAIN . . . D . QEIQST D
UniRef100_A0A518NI82 G . DY . ET I IH . . . TLV NALAI TS G IICDGA KAS CAAKIAQS VEAGILGYQ . MYQN . . . G . QQFYAG D
UniRef100_A0A518NJM1 E . EEL TK . . . V I QNMASGLTGMICDGNHGH CVMKGITAVDAAFRAVD LAME . . . G . ICIEI NI H
UniRef100_A0A521CRD8 L . EQL GM . . . TLQ NMTGSVTGMICDGA KGT CSHKISSVGAATQSSL LAMN . . . H . NHLNGLN
UniRef100_A0A521LL13 Q . KQD M . . . AFNT TMVGNLTG IICDGA KGT CALKIYSCEVAHLVAVK LAIK . . . G . VGADGKS
UniRef100_A0A522CI92 L . HH IAG . . . AIT NLTED LAGVICDGA KAG CSLKLAT AAGTAVQAAL FSLH . . . G . VNVKAT D
UniRef100_A0A522KL8C F . GVL EC . . . AVS NVMGD ISG IICDGA S NT CAMKVSTSVNSAFRSVL LAGQ . . . N . TRASSAD
UniRef100_A0A522M0Y6 A . AEV SA . . . AAT NIVGN LAGMICDGA KIG CALKTM TGVDAAFRAA LARA . . . G . LVIPVS D
UniRef100_A0A524DGQ2 E . EBN N . . . AIN LVVAN ITG IICDGA KEG CALKLGTASAVATEESAL MALE . . . G . KIPPDN
UniRef100_A0A524DSA1 S . QO I NN . . . AIN LMAANNVGF LCDGA KPG CALKISTAGIATECAL IALQ . . . D . NLINSDN
UniRef100_A0A524EWE5 S . QO I HN . . . AIN LMAANNVGF LCDGA KPG CALKVSTAGIATECAL MALE . . . N . NTINSDN
UniRef100_A0A524N1Q1 P . QLA DV . . . AVAS L IASVMGMVCDGKGSG CALKVSTAGAEALYAM LALM . . . G . GGLNKTQ
UniRef100_A0A525D514 L . NH I SG . . . AIK NLT TDLAGVICDGA KSG CALKLVTAGTAVQASL FSLQ . . . G . VVVEAT D
UniRef100_A0A525D8T0 V . SHM AG . . . AIK NIMED LAGVICDGA KAG CALKLNTA AGAVQAAL FSLQ . . . G . INVKDT D
UniRef100_A0A544QXW4 S . QO I EG . . . AMEN MIA D LSGMICDGA KPG CACKLATASSAVQNAL LAKR . . . G . CIPALN
UniRef100_A0A550AMM4 Y . QO SCY . . . AIQ NVLSDCSGMVCDGA KST CAMKVRTTSGSAVNAMF LAITQ . . . S . TTAQDQ .
UniRef100_A0A553GAJ5 GR . Y . KEV AH . . . TIV NALAI VSG IICDGA KPS CAGKIAS SVEAGILGYH . MYKN . . . G . QQFYGG D
UniRef100_A0A556SYN1 L . DIE KMNL . . . AVNT IISD IGMCLDGA KGG CALKVVSSTDASTRAY . MALS . . . G . HGITEE E
UniRef100_A0A562JKA9 S . KO I KS . . . SIN NMVAG ISGMCLDGA KLG CSYKLSISVDAAVDASE MALK . . . N . FIPDDN
UniRef100_A0A562JRJ7 Q . QV KKA . . . AIQ NTIGN VSGMICDGA KAG CAMKVSTCSNVAVQSAI LAIN . . . N . QEIRST D
UniRef100_A0A564URK6 AD . Y . DV IGT . . . TIV NAVGTG IICDGA KSS CASKIAS SVEAGILGYE . MAR . . . RG . RKFQFE
UniRef100_A0A5B0CPU5 Q . IO I KA . . . AVQ NTIGN VSGMICDGA KAG CAMKVSTCSNVAVQSAI LAIS . . . D . QEIQST D
UniRef100_A0A5B7ZGB2 LS . D . KEI EA . . . V I SNALAI TS GLLCDGA KSS CAAKISMSVEGALLALD . MVKH . . . K . KAFRAG D
UniRef100_A0A5B8Z9B3 Q . QV KKA . . . AVQ NTIGN VSGMICDGA KAG CAMKVSTCSNVAVQSAI LAIN . . . H . KEIQST D
UniRef100_A0A5C0SGK9 E . IO D G . . . V I K NMLAN VSGMICDGA KVG CALKLATASTAIQSAI LAIS . . . N . NIVPSRN
UniRef100_A0A5C0T1Y8 S . QO I EG . . . AMEN MIA NLSGMICDGA KPG CACKLATASSAVQNAI LAKR . . . G . CIVPGLN
UniRef100_A0A5C1QU93 E . KAI RG . . . AVK NSISP LAGMLCDGA KNG CALKMSIASMTALNAVE LAES . . . G . IEVGYF D
UniRef100_A0A5C5D7Q5 Y . QO ISM . . . AIS NMIGD VSGMICDGA S NS CAMKVRTSVSA AWKAVL MAID . . . N . TAVSGNE
UniRef100_A0A5C6HQN6 Y . QO I AY . . . AVK NMIA NLTGMICDGA KPS CALKVTTGVSTAVLSAI MAME . . . N . RCVTSV E
UniRef100_A0A5C7EPT0 GT . R . EOG IGA . . . TIV NTLGN VGG IICDGA KAS CAAKIASA VDAALIGCD . MAL . . . EG . RFRAGE
UniRef100_A0A5C7WBI2 Y . EOI TF . . . AVQ NMIA NLTGMICDGA KPS CALKLISGVSTAVFSAI LAME . . . H . KCVSSV .
UniRef100_A0A5C8EY68 AT . Y . KO I SD . . . TI I NALCTIGMVCDGA KSS CASKIAEADICGLAFN MAK . . . DG . KVFKSG D
UniRef100_A0A5C8M9N7 T . E I RA . . . AIQ NMLGNVTGMMCDGA KGG CAMKVATCTSAAVQSAI LASK . . . G . MAISSTN
UniRef100_A0A5C9DNR8 G . GL . KEV EG . . . SI I NTLAN VSGVICDGA KAS CAAKIATGVDAATIAQY LAMK . . . G . KVEDGC
UniRef100_A0A5C9DU17 K . MH I Q . . . AIN LLAAN ITGMICDGA KAG CALKISTASGVAIECAL MATN . . . G . ANIASDN
UniRef100_A0A5D6W1Z3 GD . Y . KAV IH . . . TIV NALAI TS G IICDGA KAS CAAKIAAAVDAGILGF . MYRN . . . G . QQFYGG D
UniRef100_A0A5K1J5F7 L . QO IKF . . . AVN NMLATLSGMICDGA KAT CALKICAGTSAATQSS LAIA . . . D . ISPTSK D
UniRef100_A0A5K7YEW8 A . IOA ER . . . AVSTFVAAL LGMVCDGA KES CGLKVSTAAQAAYTTAM LVLS . . . G . GGIHDTQ
UniRef100_A0A5K7YT21 K . HH IAG . . . AIK NLAED LAGVICDGA KGG CALKLATAAGTAVQAAL FSLQ . . . G . VNVSFT D
UniRef100_A0A5K7ZLE3 K . QH IAG . . . AIK NLTED LAGVICDGA KGG CALKLATAAGTAVQAAL FSLQ . . . G . VNVSFT D
UniRef100_A0A5K7ZZM1 K . AH IAG . . . AIK NLTED LAGVICDGA KGG CALKLATAAGTAVQAAL FSLH . . . G . VNVSFT D
UniRef100_A0A5M7L1B9 L . NVES . . . AVI NMISD VSG IICDGA S GS CAMKVSTATSSAFRSVL MARQ . . . G . VRVSST D
UniRef100_A0A5M9NAC5 L . AOK IG . . . AIK NMIA G I SGMICDGA KIG CSYKLAISVNAALDAAK MANR . . . N . FIPSDQ
UniRef100_A0A5N7IN9G AD . Y . DV I GK . . . TI I NTLGN VGG IICDGA KAS CAAKIASA VDAAGIMGYE MAK . . . YD . RVFPFE
UniRef100_A0A5P0ZTQ0 F . ETA SM . . . SIK NMAGD SGMVCDGA GCS CAMKVASSVSSMYRGMK LAMK . . . G . IVVPSSN
UniRef100_A0A5P8E3K1 Y . EOV TF . . . AVK NMIA NLTGMICDGA KPS CSLKLITGVSTAVLSAI LAML . . . G . EHVTSDE
UniRef100_A0A5Q0TH62 F . EQSCH . . . AIQ NVLSDCSGMVCDGA KST CAMKVRTTSAAVTGFI MAMN . . . S . QQAQSO .
UniRef100_A0A5Q2TCT7 L . NTI NA . . . AVI NMVSDVTGMICDGA S NS CAMKVSSVSSAFRSVL MAMO . . . D . SCASAN D
UniRef100_A4Y4Q4 F . EQSC F . . . AIT NVISDS SGMVCDGA KAS CAMKVSTSSSAVRSFL MAMN . . . S . QNVSGQ .
UniRef100_A6TX17 Q . O I D G . . . V I K NMLAN VSGMICDGA KVG CALKLATSAQVAIQSAI LAMD . . . H . HTVPTGN
UniRef100_A8MIF4 E . EKI DG . . . TIK NMIGN LSGMICDGA KVG CALKLATSAATIQSAI LAIN . . . G . HVIPSKN
UniRef100_A8RF28 Q . DY . ET V AH . . . TIV NALIG VSGMVCDGA KAS CAAKIAQAAVDAGIMGYC MYLA . . . H . GQFRDG
UniRef100_A8RGM5 H . EOM GY . . . AIT NMSSGNLTGMICDGGKIG CALKLATASGAALMSAC LAVD . . . K . TVLDPK D
UniRef100_A9A9J5 NLKKLDS . . . SARTFTANLP IICDGGKVG CALKLATSGCFAAYSSLF VD ISYEN
UniRef100_A9KNN3 GN . E . EO I NQ . . . TI I NTLAN VSGVICDGA KSS CAAKIASA VDAATVATM ISLK . . . G . KGFLSG D
UniRef100_B0MUK5 Y . EAV SF . . . AVK NMIA NLTGMMCDGA KPS CSLKLITGVSTAVLSAM LAME . . . N . HVSVSSE
UniRef100_B0TUD9 L . EO I SA . . . AIC SMIGD VSG IICDGA KAS CAMKVSSSAGSAVKSAL MAID . . . G . IRVTGE
UniRef100_B0TX30 LS . E . DKVE K . . . SI I NLAGITGIMCDGA S NS CSIKIAN SVYAFDAVN AAML . . . G . NTVTPH D
UniRef100_B0VHZ2 Y . PO I EY . . . AIN NMIA DTAGMVCDGA KEG CSLKVATTTSAVQAAL LAKT . . . G . ICVSSND
UniRef100_B1C1Q1 GD . Y . QO CIAH . . . TLV NSLAITS G IICDGA KSS CAAKIAAS VDAGILGY . MYLE . . . G . QEFKDG D
UniRef100_B1KQ25 F . EQSC F . . . AIT NVISDS SGMVCDGA KAS CAMKVSTSSCAA VRAFL MAMN . . . S . RSVSGQ .
UniRef100_B2KCX0 L . KKI TL . . . AIN NIA ISD IGMCLDGA KSG CALKVVSVDSAITRAAY MGIN . . . N . YGITEL E
UniRef100_B7CB13 G . TY . EE I QH . . . TIV NALAI TS G IICDGA KAS CAAKIAS IDAGIMGY . MYKN . . . K . QQFYAG D
UniRef100_B9L7K6 K . EVSK K . . . AVS V I QD I NGVICDGA KMA CSLKVRLGAKSGYEAAM FAL . . . G . KPVSFD
UniRef100_C0D3S7 G . GY . DEV VH . . . TVV NALAV VSGVICDGA KAS CAAKIASA VDAAGILGYN MYIR . . . G . QQFYGG D
UniRef100_C0QFK8 P . GO I GG . . . AVEN I IED LAGVICDGA KNS CALKLDTAAARAVQAAL FAMN . . . G . LTVKVT D
UniRef100_C2L0B5 E . QMEY . . . T I N NMAS ITGMICDGNQG CTMKGVAAACDAAFRSVA FAMK . . . G . VHIDKVH

UniRef100_C2L0Q0 GN.Y..QK IGR...TISNTLGNVGGIVCDGAKPSCAAKIASVHAAILLAHH.MSM...KD.QGFHGG E
UniRef100_C2MA54 K..QV VSY...AVKNMVGNITGLLCDGAKPSCSLKVSSGVSTAMFSAL.LAME...Q..KVVVTGS E
UniRef100_C5BAM6 F..QA IGO...AITNMISDVSGIICDGAASNSCAMKVSTTTMSAFKSVL.MARQ...N..HCAGKN D
UniRef100_C6BST6 Q..V EES...TIKNTLGDITAGMICDGAKTS CALKVSSAVEAAATNSAL.LAMK...G..TSIPGK D
UniRef100_C6L8Z4 GD.Y..DA VCR...TITNTIANMGVVCDGAKSSCAAKIASAVDAATLAYS.LER...EN.RCFQPG E
UniRef100_C6LJG2 L..E OIRY...EINNMTASVSGIICDGAASNSCALKVSSVIVSSACQCAA.LALK...D..HSAGSM D
UniRef100_C6Q223DMM SH...VLNNIASSITGMICDGGNQGCTMKGIVAVDAAYKAVD.FAMN...G..YIDNVH
UniRef100_C6Q2H5 L..K OLEG...AIKNMSAGITGMICDGAKIGCSYKLSISVTAALDAAK.MAMK...N..IFIPCN D
UniRef100_C9KVL1 Y..D VAF...AVQNMIANLTGMICDGAKPS CALKVTTGVSTAVLSAM.MAME...D..RCVTSV E
UniRef100_C9LDF2 Y..RH MTY...AIQNMIANLTGMICDGAKPS CALKLTITGVSTAVLSAM.MAMO...E..ESVTSAE E
UniRef100_C9M8S4 N..Q OAK...AMELLLGNITGMVCDGAKES CALKVGTGATEAFYAAQ.IALS...G..GGMVAVSQ
UniRef100_C9MTE5 Y..VNV CH...AVKNMIANLTGMICDGAKPSCSLKISSGVSTAILSAT.LSME...G..KHVTSAE E
UniRef100_C9PW11 F..E OICY...SVKNMIANLTGMICDGAKPS CALKLSSGVSTAVLSAM.LAIQ...H..KYVTSV E
UniRef100_D1B8Y5 L..E EVKE...AMGMVLANLAGMLCDGAKES CALKVGTGSYEAYLAAR.WAVQ...G..IKMFKPQ
UniRef100_D1PPN9 G..TL..D O IKA...TIDNTLANIPGIICDGAKASCAAKIAASLDAAMLHAH.LAMA...G..RSYGAHN
UniRef100_D1PU19 Y..TH MCH...AINNVMANLTGMICDGAKPSCSIKITCSGVSSAILLSAL.LSIE...G..QYVTSAE E
UniRef100_D1VYW2 Y..AH ICY...SIKNMIANLTGIICDGAKPSCSLKISSGVSTAVLSAL.LSME...N..KHVTSAE E
UniRef100_D1Y6A7 D..A QAKK...AMELVLGNITGMLCDGAKES CALKVGTGATEAFYAAQ.IALS...G..GGMTVSQ
UniRef100_D2MF51 PD..E..Q LVCD...TISNSLMIVSGMVCDGAKPSCAAKIASAVDAGYTGFO.MALH...Q..RTFQVG E
UniRef100_D2RIV4 EG..Y..E AISH...TLVNSLAI VSGIICDGAASCAAKIASVVEAGILGYA.MYKS...G..NEFKSG D
UniRef100_D2Z6R2V ELSIK...AMEIVLGNLVGMVCDGAKET CALKVSTGAAEAYLAAM.TVLG...G..NHLKGAQ
UniRef100_D3HWC7 Y..G DVCH...AVKNMIANLTGMICDGAKPSCSLKITCSGVSTAILLSAL.LARE...G..KHVTAEE
UniRef100_D3IDC4 Y..D KICH...SVKNMIANLAGMLCDGAKPGCSLKISSGVSTAILLSAV.LSME...G..RFVTAEE
UniRef100_D3LTV6 H..DR..Q VVID...AICSMVTGDLPGMICDGAANS CSMKVASASAAAYKAVL.LALE...G..TRVGGN D
UniRef100_D3PCE0Q..K HIGG...AICNVQDLIAGVICDGAAG CALKLATAGGSVAVRSAL.LSILQ...G..ITAQSS D
UniRef100_D3S649AD KIEE...SIKSFTANLPGIIVCDGGKIG CALKIASGVFAIYLSLF.SK...V..VPYTN
UniRef100_D3UGV7F..D VVSR...GICNMIGDISGILCDGAANG CSMKVSTTVQSVFSL.LIALE...Q..SSLNAQ D
UniRef100_D4CJP0 GG..L..R EHEN...TIINTLENISGIVCDGAKESCAAKIASIDAAITMGSD.MAME...G..R.FSRD
UniRef100_D4CJV0 GD.Y..P RISK...TITNTLANVGGIVCDGAKPSCAAKVASLHAATLAHH.MSM...ND..KSFAAG E
UniRef100_D5EC14L..H KAEK...AVEILVSNLVGMLCDGAKDTCALKVGTGAYEAYCAAM.IVLE...G..NELDGPQ
UniRef100_D5EER4K EVEN...TVHMLANLTGMLCDGAKYGCALKMATSGAGAAIECAYM.AML...N..AKVPGNN
UniRef100_D5ES46Y..E RICY...AVKNMIANLTGMICDGAKPSCSLKITSVSTAILLSAL.LAME...G..KCVSQD E
UniRef100_D6GQL7 EP..T..N I IKE...TLVNSLAGNSGILCDGAKPSCAMKIASINNAPFLGYR.QART...D..KNSFVSG D
UniRef100_D7NED5 F..Q DVCH...AVKNMIANLTGMICDGAKPSCSLKITCSGVSTAILLSAL.LARE...G..KHVTAEE
UniRef100_D8DSZ7 Y..S RICH...TVQNMIANLTGMICDGAKPSCSLKITCSGVSTAILLSAM.LSIE...G..KHWTSAE E
UniRef100_D8GIX4 GD.Y..D TIGK...TIINSIGTVGGIVCDGAKASCAAKISSVDAGILMGYE.MAK...HG..LVFPFGE
UniRef100_D9R3W3 GG..Y..E EVIH...TIIVNALAIVSGIVCDGAKSSCAAKIASSTEAGILGYN.MYVQ...G..QQFMGD D
UniRef100_E0NUQ4Y..E QISY...SVKNMIANLTGMICDGAKPS CALKLTITGVGTAVMSAM.LAIQ...H..KYVTSV E
UniRef100_E0QK30E QMKG...ACONLLANLTGMICDGAKDNCSLKLSVCAAEAVVSSY.LALN...G..G.VIVRNKV
UniRef100_E1QWD0 GS.F..A QFEA...TIVNTLANVGGIVCDGAKPSCAAKICAAVDAAILGCD.MAL...AD..DNFLAG D
UniRef100_E1R8R6 Y..P EVER...AIQNMAAGNVAGIICDGAKSSCALKVASVHAAGQAAL.LAMK...G..RSVSSIE
UniRef100_E2SLD3 GD..Y..E HICH...TIIVNALAITSGLICDGAKPSCAAKIATAVDAGIMGCM.MYQK...G..KQFYRGE
UniRef100_E2ZB81 Y..E MLEA...VISNMTGEHIGMVCDGAGDGC SLKIIATAVDAAAYRAV.LARK...G..TRVGGAE E
UniRef100_E3C6S8 V..E DAAR...AIKIMIGDANGMICDGAACESCAVKVSTAVQTMIKAVD.MALQ...G..ITIPATN
UniRef100_E3CW32 P..E VVSA...SMELLANLAGMLCDGAKES CALKVGVGAACEAFLSAR.FALE...G..RALSPLQ
UniRef100_E3CYF9K OARER...AVLLLFADLAGMLCDGAKYGCALKLISTAGVALESAL.LALE...G..AALPPGN
UniRef100_E3H8R8 GD..L..K AVED...ALTNTLANISGLICDGAKASCAFKIATGIYAAPFDSAL.LALD...R..RVFNPA D
UniRef100_E4RJW4D KIEY...GINNLLISDVSGVYCDGAKSGCALKLISTAAELALRHFD.LIDE...D..TNCHLPS
UniRef100_E6VST2A THIAG...AIKNLLEDLAGIICDGAAG CALKLSTAGTAAGVQAAL.FALH...G..VNVHAT D
UniRef100_E7G7U8 GD..Y..K TIAH...TLVNALAINSGIVCDGAKPSCAAKIAESVDAGILGYY.MYKN...G..CQFKGG D
UniRef100_E7NTW9 G..TY..K OISD...TITNTLATVSGIICDGAKPSCSKIIAASVNAATIASYR.LAMK...G..EVFSAG D
UniRef100_E7RMC4 Y..Y..N RICH...AVKNMIANLTGMICDGAKPSCSLKITCSGVSTAILLSAL.LSME...G..KHVTAEE
UniRef100_E8LDS6 CT..D..D OIEH...AVENALAINSGIICDGAKSSCAAKIAMAVEGILMGVD.MSVA...E..RNFAGG D
UniRef100_F0F417 Y..Y..V NVCH...SVKNMIANLTGMICDGAKPSCSLKISSGVSTAILSAT.LSME...G..KHVTAEE
UniRef100_F0JCR0 A..H HIAG...AIKNLMEDLAGIICDGAKTGCALKLATAGATVQAAL.FSLQ...G..VNVVHT D
UniRef100_F0RYC8 L..L EMDR...AFNTMVGNLTGIICDGAKMT CALKIYSCVEANLACK.LAFR...G..MSPGNES
UniRef100_F0TBF8 D..D IKS...ALQNLGNVTGIICDGAAG CALKVATCTTAATQSVI.CVME...G..QHIQST D
UniRef100_F2LUV2S DLFSL...AFFNYIEGVGGVCDGAKRGCSAKALYAVKMAFEAIW.LAEK...G..G.VIIGFK D
UniRef100_F2NA26 GS.C..Q RIED...TVVNTIANIGMVCDGAKPSCAAKIYTALEAAFLGHE.MAM...RG..SRFEAG D
UniRef100_F3AAY4 GG..Y..T OVAH...TIIVNALAINSGVVC DGAASCAAKIASAVEAGTLGMK.MYQF...G..SQFYGG D
UniRef100_F3BA59 G..TY..E EIIH...TVVNALAIVSGIVCDGAKASCAAKIASAVDAGILGYN.MYKC...G..QQFYEG D
UniRef100_F3PR02 Y..E QVAY...AVQNMIANLTGMICDGAKPS CALKVTTGVSTAVLSAI.MAME...N..RYVTSV E
UniRef100_F3QUJ3 Y..E QVSY...AVKNMIANLTGMICDGAKPS CALKLTISGVSTAVLSAM.LAMO...Q..KCVSSV E
UniRef100_F4GHI1 GD..A..R KISM...TITNTLASITGMICDGAKAS CALKIATAVDSAILGHE.LAM...QG..RTFDDG D
UniRef100_F4GJT0 GT..L..H OIEQ...TITNSLGTASGVICDGAKPSCAAKIALCLIESATMAHQ.LAME...G..QAFQSG E
UniRef100_F4LLB6 GG..Y..E EVIH...TVVNALAIVSGIVCDGAKASCAAKIASSTEAGILGYD.MYAH...G..G.QOYFGG D
UniRef100_F4LUK2 L..L EOVEG...AIKNMIGTMAGIICDGGKPGCAFKLISISVDAALESAL.MALN...D..TIVISSA D
UniRef100_F4LUS7 G..TL..K OIER...TITNTLGNVSGIVCDGAKSSCAAKIASGLDAAIMAHF.LAMR...G..TAFETNS
UniRef100_F4XCZ3 YP..Y..E VLC D...TITNTIATVGMVCDGAKSSCAAKIATAVETALLGMK.MGLH...N..RTFQPG E
UniRef100_F5T7C5 GR..L..D TEIEH...TLVNSLAIASGVICDGAKASCAAKIGLAVENGIMGYE.MYQO...G..QVVFGG D
UniRef100_F6DRL7 G..G..T AIEA...AMKNLIANLTGMICDGGKVGCALKLSTAGAAVSSSL.LARG...E..VVVPDTN
UniRef100_F7JQN6 GG..Y..Y KEIAH...TVVNALAINSGMVCDGAKASCAAKIASAVGAGILGME.MYRO...G..SQVFGG D
UniRef100_F7NEK3I..R AVEA...AMKNMIANLTGMICDGGKVGCALKLSTAAAAVSSAL.LACR...Q..QVVPSSN
UniRef100_F7NFD1 CS..Y..E EICN...TITNTIGNIGMVCDGAKPSCAAKIASAVEAAILLALH.LSRK...N..RVFQPG E
UniRef100_F7Q0I2 GS..K..S OIED...TIKNLIANISGVFCDGAKPSCSKIIASVDAAPQASM.LAM...DG..YSVEPN E
UniRef100_F7UVX8 G..GY..K DACH...AVNVALSIVAGMVCDGAKPS CAGKIATAFVNAAGILGYV.MYRD...G..QOYFGG D
UniRef100_F8N6M6 Y..Y..S RVCA...AICNMVANLTGMICDGAKPSCSIKITCSGVSSAILLSAL.LSMQ...H..QOVTAAE E
UniRef100_F9MQQ2 H..ER..S VICN...AICNMTGDLSGMICDGAANS CSMKVASASAAAFKAVL.LAME...G..TRVSGH D
UniRef100_F9N6H6 ES..K..E VVWE...TISNALAGTSGVVC DGAASCAMKIGMSLGNSLAYT.QAKT...D..NSFKAGQ
UniRef100_F9R9Y5 F..TH ISS...AICNMIGDITGIICDGAKTS CAMKVSSASAAATKAAM.MALD...G..RVTGAE E
UniRef100_F9TAG3 Y..E QOCY...AIQNVLSDTSGMVCDGAKAT CAMKVSSSTTAAVKSVM.MAMR...N..HAAANQ.
UniRef100_F9Z2U9 Y..E QVNV...TIKTMCSNLTGMMDGAKQGCALKVYSGVSAVQAAL.LSMK...G..I.KTHN D
UniRef100_G0H2U2 NIKKLDS..AARTFTANLPGIICDGGKVGCALKLASGCSFAAYSSLF.MD...ISYEN
UniRef100_G0V3L8 Y..DN ITK...AICNMVAGC...LAME...G..SAVPGNE
UniRef100_G1UT72 L..K EDEM...TVRNMVGNITAGMICDGAKSS CALKVASAVGAGTQAVM.LAME...G..SAVPGNE
UniRef100_G1UU44N OLAG...VINSMGTLIAGMLCDGAKGGCAFKLATAGAAEAVLCAL.LASQ...N..THIGHQ
UniRef100_G1WEE9 Y..Y..S DVCH...AVKNMIANLTGMICDGAKPSCSLKITCSGVSTAILLSAL.LARE...G..RCVTSAE E
UniRef100_G1WJX7 GS..R..E QIGA...TVVNTLGNVGGIVCDGAKASCAAKIASAVDAAILGCD.MAL...AD..RGFRAGE
UniRef100_G2FU11E EIKAE...AIQNMQGNATGMVCDGAKVGCALKLISTCTSAAVQSAI.MAIE...G..KVIQGT D
UniRef100_G4D522 EN..I..D VLKE...TISNSLAVNSGIICDGAKPSCAMKIASSLRNAPFLAYE.QAKT...N..NSFNPG D
UniRef100_G4KPR6K OIGY...AVNNMLGDVTGMLCDGAKAD CALKISTCTVCTAFNCAA.MALR...D..ETVKST D
UniRef100_G4L141 YP..S..S VLYD...TITNTIATVSGMVCDGAKSSCAAKISTALQTLALGLK.MGIH...D..LRFQPG E
UniRef100_G4Q4Z6D EIQK...AISNMASITGMICDGGNQG CIMKGITAVELSFTSAE.LAMR...G..RYIFSNH
UniRef100_G5GAJ6 Y..Y..Q OITY...AVQNMIANLTGMICDGAKPSCAMKLTITGVSTAVMCAM.LAMO...N..EYVTSV E
UniRef100_G5HEI2 E..DD..R VYKH...AIVNCLAITSGIICDGAKPSCAAKIASIDAAPFLALE.MARD...G..G.EFKFGG D
UniRef100_G5IAK3 G..DY..K DVVH...TVVNALAI VSGIVCDGAKASCAAKIASAVDAGILGYN.MYKR...G..QOYFGG D
UniRef100_G7WDA6 GG..Y..E EISQ...TITNTIANIGMVCDGAKPSCAAKIASAIGAGILGYQ.LSV...QG..KVFKNGE
UniRef100_G7WJK3R EIKS...AIQNMQGNITGMFCDGAKVGCALKLSTCTSAAVQSAI.MAVQ...G..KTIQST D
UniRef100_G8QSL3I..A VMDR...AINTMIGNLTGIICDGAKMT CALKIYSCVEAACLACK.LAFR...G..FSPGSES
UniRef100_G8QX01 AS..R..K VIEA...TITNTLANVSGIVCDGAKASCAAKIASVVEAQMAYF.MVA...DG..HVFLSG D
UniRef100_G8QX20 GR..Y..Q EISN...TITNSICTVGMICDGAKPSCAAKIASIALEAALNGYC.IQD...NG..GVFKHGE
UniRef100_G8QXHO GR..Y..Q EISN...VITNCLADIGVVCDGAKASCAKSIATAVKSGTFAPE.MGMK...EN..KSFING D
UniRef100_G9WPW8 GD..Y..H KIGK...TISNTLGNVGGIVCDGAKPSCAAKIASVHAAILLAHS.MSM...KD.QGFNGGE

UniRef100_G9YIV9 Y . TEL EA . . . T I A N M T A E H I G M I C D G A G D G C S L K I A T A V D A A Y R A V F L S R R . . . G . I R V N G T E
UniRef100_H0U7D0 N Q I S F . . . A I Q N T I G N V T G M L C D G A K A G C A M K V S T C T G A A V Q S A L L A S Q . . . G . I G V P G T N
UniRef100_H0UNL1 V Q R V Q S . . A M E M V L A N L A G M L C D G A K A G C A L K V G T G S H E A Y L A A R M A A S . . . G . I S L C K P Q
UniRef100_H1DGB7 Y E Q V V N . . T I K T M C S N L T G M M C D G A K Q G C A L K V Y S G V S A A Y Q A A L L S M R . . . G . I . K T N N D
UniRef100_H1HSG3 G D E . K R I A C . . T I T N T L G N V G G I V C D G A K P S C A A K I A S S V H A A I L A Y Q M S M . . . R D . Q O F Q P A G E
UniRef100_H1HTE4 G D Y . A O I S R . . T I T N T L G N V G G I V C D G A K P S C A A K I A S S V H A A I L A H H M S M . . . S N . R C F Q A G E
UniRef100_H1Q0Q2 Y . T N I C H . . S V K N M I A N L T G M I C D G A K P S C S L K I S S G V S T A V L S A T L S M E . . . G . K H V T A A E
UniRef100_H3KEV9 Y A . D N E I A D . . V V S N A L A T T S G L I C D G A K S S C A A K I A S S V E G A L M A L D M V A Q . . . E . K V F R E G D
UniRef100_H5XWU0 G D . Y . D A I A H . . T V V N A L A I V S G I V C D G A K S S C A A K I A S S A V D A G I L G F S M Y Q S . . . G . Q E F C G G D
UniRef100_H9UDX8 V E Q I K N . . S I N N V L A T L F G M T C D G A K R S C A L K A S I G T Q M A L N S V K L S L N . . . D . T N I P C G N
UniRef100_I2BBH1 Y . N T I A M . . A I S S M I G D V S G M I C D G A S N S C A M K V S T S A A T A W K A V L M A L D . . . D . T A V T G H E
UniRef100_I4BXX4 M . T K V E E . . A I K I H L S N L V G M I C D G A K G T C A L K V G T G A Y E A F M A A M A I E . . . G . T K L E A P Q
UniRef100_I4C9A0 A . R R I L G . . A V S N V V G S I S G M I C D G A K E G C A Y K V A L A S G W A I K M A L L S M R . . . G . S V I S A T N
UniRef100_I4DB99 Q E I Q T . . A I Q N M Q G N V A G M F C D G A K A G C A L K L S T C T S T A V Q S A V M A I K . . . G . I A I Q S T D
UniRef100_I4Z7Z1 F . D N I C N . . A V K N M I A N L T G I I C D G A K P S C A L K I S S G V S T A V L S A M L S I E . . . G . K C V S S A E
UniRef100_I8TRS2 A D Y . D V I G K . . T I I N A L G N V G G I V C D G A K A S C A A K I S S A V D A G I M G Y E M A K . . . S N . I V F P F G E
UniRef100_I9DKN7 F . E T V S M . . A I S N M I G D V A G I I C D G A S N S C A M K V S T S A T A Y K A V L M A L E . . . G . I R V T E Y E
UniRef100_I9LEV3 F . K T V S M . . A I S N M I G D V A G L I C D G A S N S C A M K V S T S V M S G Y K A V L M A L E . . . G . I R V T E N E
UniRef100_I9NNL2 F . R V V S M . . A I S N M I G D L A G L I C D G A S N S C A M K V S T S V M S G Y K A V L L A L E . . . G . I R V T G N D
UniRef100_J5W633 E Q I K G . . S C N N L L A N L T G M I C D G A K D N C S L K L A S S A S E A V I S S Y L A I N . . . G . V I V N K N V
UniRef100_J7IVN5 A E V M S . . A I Q N M Q G N T T G M F C D G A K A G C A M K L S T C T S A A V Q S A I M A V Q . . . G . K T I Q S T N
UniRef100_J9GDW5 Y E Q V S Y . . A V Q N M I A N L T G M I C D G A K P S C A L K V S T G V S T A V L S A I M A M E . . . N . R C V T S V E
UniRef100_K0G6A3 F . E A I S M . . A I S S M I G D I S G I I C D G A A N S C A M K V S T S V S S S Y K S I L M A L D . . . D . T Q V T G N E
UniRef100_K2APZ2 P E V I G R . . A I D Y V A G A I S G M T C D G A K G S C A L K V G V S V E T A I Q A A I A A V Y . . . S P E Y L L R R Q
UniRef100_K4LJ29 R E I T A . . A V N N L A G N L S G M V C D G G K P G C A F K V S T S A E A V L A S L L S I N . . . G . V E I G R T Q
UniRef100_K6E323 Q Q I K G . . A I Q N T I G N V S G M I C D G A K A G C A M K V S T C S N V A V Q S A L L A I N . . . H . Q E I Q S T D
UniRef100_K8W9S4 Y . D V V S M . . A I C S M I G D V S G M I C D G A S N S C A M K V S T S A S A Y K A V L M A I D . . . N . S C V R G S D
UniRef100_K8WWJ1 Y . E V V A M . . A I S S M I G D V S G M I C D G A S N S C A M K V S T S A S A Y K A V L M A I D . . . N . S C V R G S D
UniRef100_L0RBQ4 T . A Q M A G . . A I T N L T E D L A G I I C D G A K S G C A L K L A T A A G T A Y Q A A L F A T H . . . G . V N V H T D
UniRef100_L1NAI7 K . E Q S I G . . A V K N M I G N V S G M I C D G A K P S C S L K A S T G V S S A I L S A L L A M E . . . G . H V V T A N E
UniRef100_M1E6N6 N . K K V E Y . . S I K N V I S G L S G M I C D G A K I G C A Y K I Y L S S L S A I E A S N M A I N . . . G . I V I P S D N
UniRef100_M1PWB2 L E D A L H . . T T R N M L G T I T G I I C D G A K D G C A Y K V A L S S R W A V Q S A L L A F D . . . N . T F I P S K D
UniRef100_M4U7A2 F . E Q C S Y . . A I Q N V L G D C T G M I C D G A K S T C A M K V R T T S S A I Y G A L L A I N . . . S . T E A N D Q
UniRef100_M4UMF1 Y . K Q S C Y . . A I Q N V L G D C T G M I C D G A K S T C A M K V R T T S S A I Y S S L L A I N . . . S . T G T K D Q
UniRef100_N1ZBI4 G S . Y . E D I T H . . T I V N A L A I T S G I I C D G A K A S C A A K I A S S A V D A G I F G Y D M Y L K . . . G . Q Q F Y G G D
UniRef100_N2BUJ8 G S . L . A Q F E A . . T V V N T L A N V G G I V C D G A K P S C A A K V S A S V D A A I L G C D M A L . . . S D . H N F K A G D
UniRef100_Q0W4W4 E E I T H . . A M Q S V I G T L A G M V C D G A K E S C A F K L S S S V A L A I F G H L S L E D A Y I K E G M
UniRef100_Q6AQQ3 L Q Q V E G . . A I K N I L E D L A G V I C D G A K A G C A I K L N T A G A A V Q A A L F S L Q . . . G . V S V K D T D
UniRef100_R5ACV9 A Q V S G . . A V Q N M M G S V A G I F C D G A K G C A V K V A A C A S E A V Y A A M Y A M D . . . G . S V I G V S D
UniRef100_R5BH02 Y . D Q V C S . . A I K N M I G N I T G M V C D G A K V G C A M K V A S G V A C A V Q S C V L A I R . . . G . T C I K E T D
UniRef100_R5BSN7 Y . K E V T Y . . A V K N M I A N L T G M I C D G A K P S C A M K L T S G V S T A V L S A M M A M E . . . H . E C V S C V E
UniRef100_R5CBC5 Y . D Q M A F . . A V K N M I A N L T G M I C D G A K P S C A L K L T S G V S T A V L S A M L A I Q . . . N . K H V T S V E
UniRef100_R5D1I4 G T . T . E A V S A . . T I T N T L G M I S G T V C D G A K P S C A A K I A S A V E A G L L G F D L Y E N . . . G . K G L H G G D
UniRef100_R5D3N9 G D . Y . D T V A H . . T V V N T V A M D S G I I C D G A K A S C A A K I A A A V D A G L L G L A M Y R S . . . G . N Q F F G G D
UniRef100_R5DQG3 D I A V H . . A M Q T V L G T I G M F C D G A K I S C A Y K L S T A A S L A V Q A A Y L A R E . . . G . G C F V P A G V
UniRef100_R5GEI3 Y . R E V T Y . . A V K N M I A N L T G M I C D G A K P S C A L K L T S G V S T A V L S A M L A M Q . . . G . N C V S S E
UniRef100_R5GWZ7 K . E A M R A . . G V R T M A A D L S G M I C D G A K P G C A L K I A T S V N A A A L A A Q L A I N . . . G . T G A T K R D
UniRef100_R5JAL6 Y . S K I T Y . . A V K N M I A N L T G M I C D G A K P S C A L K L T S G V S T A I L S A L L A I E . . . N . K C V S S V E
UniRef100_R5JHT1 G G . F . K E I A H . . T V V N S L A I V S G I V C D G A K A S C A A K I A S A V E A G I L G Y N M Y I R . . . G . Q Q F Y G G D
UniRef100_R5IJT6 G G . Y . E H I K H . . T L V N A M A I T S G I I C D G A K P S C A A K I A T S V D A G L L G Y H M Y R C . . . G . N Q F Y A G D
UniRef100_R5LQS8 Y . E Q M S Y . . A V K N M I A N L T G M I C D G A K P S C A L K L T T G V S T A V M S A M L A I Q . . . N . K H V T S V E
UniRef100_R5LUG8 G G . F . E E I A H . . T L V N A I A I T S G I I C D G A K A S C A A K I A A S V D A G I L G W N M Y R N . . . G . Q Q F Y G G D
UniRef100_R5M5F0 A G . Y . E E I S R . . L I T N T I A T I G M V C D G A K P S C A A K I A S A V D A C I T A M E L A R Q . . . G . L S F Q P G E
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UniRef100_R5QVY3 G R . Y . K E I A H . . T L V N S L A I L S G T I C D G A K A S C A A K I A A A V D A G I L G Y F M Y K D . . . G . Q Q F I D G D
UniRef100_R5R9I7 Y . E K M C K . . A I S T M V A D I S G V V C D G A K A G C A L K V A T A V D S A M R A A N M A M C . . . G . I G A D S K D
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UniRef100_R5WS06 G D . E . K O I S D . . T I V N T L A N V S G I I C D G A S A S C A A K I A S S V D A I T M G S I L A R E . . . K . T V F E T G D
UniRef100_R6ACZ6 Y . E Q V T F . . A V K N M I A N L T G M I C D G A K P S C A M K L T T G V S T A V L S A M L A M Q . . . G . N C V T S V E
UniRef100_R6BEE9 G D . Y . D T I A H . . T L V N S L A I V S G I V C D G A K A S C A G K I A A A V N A G I L G Y N M Y L N . . . G . S Q F W A G D
UniRef100_R6BNM8 P E V E N . . C V F N M I G N V T G M L C D G A K A D C A L K I A T C T N A A M Q S A L M A M R . . . G . I R V L S T D
UniRef100_R6CEX6 Y . Q Q V I Y . . A V Q N M I A T L T G M I C D G A K P S C A L K L T S G V S T A V M S A I L A M E . . . Q . K C V T A V E
UniRef100_R6CRH6 R E E R I H A . . V I N N M A S S I T G M I C D G G N H G C V M K G L A A V D A M W R A N N L A R C . . . F . V M I E S I H
UniRef100_R6DX46 Y . E R V C R . . S V K N M I A N L T G M I C D G A K P S C S L K I A S G V S T A I L S A L L S M E . . . G . K C V S S A E
UniRef100_R6ES56 A D Y . S K I C R . . T I S N T L G N V G G I V C D G A K A S C A A K I A S S L D A A F L G Y D M A E . . . D D . L G F K P G E
UniRef100_R6F8Q0 Y . E H I C W . . S V K N M I A N I T G M I C D G A K P S C A L K I S S G V S T A I L S A L L S M E . . . G . K C V S S V E
UniRef100_R6GFV4 G . N L . D A V S T . . T V S N A L A I T S G I V C D G A K S S C A A K I A V S V E A G I L G Y H M Y L N . . . E . R K F L P G D
UniRef100_R6IAL3 A T . L . E I G H T . . T I T N A V G V T S G M I C D G A K A S C A G K I A N S V E A G I T G Y N M C K T . . . G . N N Y Q P G D
UniRef100_R6PJ67 G . G Y . E E V I H . . T V V N A L A I V S G I V C D G A K A S C A A K I A S A V D A G I L G Y N M Y K R . . . G . Q Q F Y G G D
UniRef100_R6QZ08 Y . Q R I C N . . S V K N M V A N L T G M I C D G A K P S C S L K I S S G V S T A I L S S L L A M E . . . G . R C V T S A E
UniRef100_R6RRH2 G D . F . D A V I H . . T V V N A L A V I S G M V C D G A K A S C A A K I A E S V D A A I L G Y N M Y V K . . . G . Q F Y G G D
UniRef100_R6SUK7 Y . E E V C Y . . A I K N M I G N I T G M V C D G A K V G C A M K V A S G V S S T Q S A V L A I Q . . . G . T H A C E T D
UniRef100_R6TKV7 G R . Y . D V I A H . . T I A N T L A I C A G M I C D G A K P S C A A K I A A A V D A G L G Y E M Y M H . . . G G . H E F V G G E
UniRef100_R6WIA0 G . S V . A Q I K A . . T I D N T L A N I P G I I C D G A K I S C A A K I A S S I D A G M A H Y L A M N . . . H . K A Y K A Y T
UniRef100_R6WIM5 E M M K H . . T I N N M A S S I T G M I C D G G N Q G C T M K G I A A V D A A Y Q S V D F A M H . . . G . I Y I Q D V H
UniRef100_R6X2B6 Y . D D L C H . . A V K N M I A N L T G M I C D G A K P S C S L K I C S G V S T A I L S A L L A R E . . . G . K F V T S A E
UniRef100_R6XH18 Y . Q R I C N . . A V K N M V A N L T G M I C D G A K P S C A L K I S S G V S T A I L S A L L S M E . . . G . K C V T S A E
UniRef100_R6XH36 F . E Q I C F . . S V K N M I A N L T G M I C D G A K P S C A L K L T S G V S T A V L S A M L A M Q . . . H . K Y V T S Y E
UniRef100_R6XLK2 G . G Y . D E V I H . . T V V N A L A I V S G M V C D G A K A S C A A K I A S S V D A G I L G Y N M Y L N . . . G . Q Q F Y A G D
UniRef100_R6YNU0 Y . E Q V A Y . . A V K N M I A N L T G I I C D G A K P S C A L K L T S G V S T A V L S A I L A M E . . . Q . K C V T A V E
UniRef100_R6ZPY0 G T . R . E Q I G A . . T V V N T L G N V G G I V C D G A K S S C A A K I A S A V D A A I L G H S M A M . . . A G . K S F H A G E
UniRef100_R7A8V9 G D . F . E A V C R . . T V S N T L A V T P G M I C D G A K P S C A G K I A M A V E A G I M G C R M N A E . . . G . E K F L C G D
UniRef100_R7CZU5 Y . Q Q A V Y . . A V K N M V A N L T G M L C D G A K P S C A M K L S T G V S T A V L S A M M A M Q . . . Q . R Y V T S V E
UniRef100_R7D3W1 G T . R . E Q I G A . . T V S N T L G N V G G I V C D G A K A S C A A K I A A A V D A A I L G H D M A M . . . Q Q . R G F R A G E
UniRef100_R7D3Y4 G T . Y . Q Q V S L . . T I I N T L G N V G G I V C D G A K P S C A A K I A S S V D A A I M A F Q L S I . . . Q N . K S F L P G E
UniRef100_R7DCY6 Y . P O I T A . . A V K N M I A N L T G M I C D G A K P S C A L K L T S G V S T A V L S A I L A M E . . . Q . K C V T S V E
UniRef100_R7ECU3 G G . Q . K E G E H . . A I V N G L A I V S G M I C D G A K A S C A A K I A S S V D A G I L G Y F M Y K N . . . G . Q Q F I G G D
UniRef100_R7GDN4 G S . I . D L I S Q . . T I V N A L G I S G M V C D G A K P S C A A K I A E A I D S A I L L G Y Y M A I H . . . N . E R F K S G E
UniRef100_R7J033 Y . D R V V A . . T I K N M V A T L T G M I C D G A K P S C A L K L A S G A V S T A V S L A L V A M E . . . G . H C V T P L E
UniRef100_R7KN91 F . E Q C C M . . A I N N V I S D T S G M V C D G A K S T C A M K V H T A A Q T A Y K C C F L A L A . . . G . H G V E G Q
UniRef100_R7LE14 Y . E Q M T Y . . A V K N M I A N L T G M I C D G A K P S C A L K L T S G V S T A V L S A M L A M Q . . . G . N C V S E V E
UniRef100_R7P9Q6 Y . R E V C Y . . A V K N M I A N L T G M I C D G A K P S C A L K L T T G V S T A V L S A M L A M Q . . . G . N C V S P V E
UniRef100_R9IHK8 G . T V . G O I K A . . T I D N T L A N I P G I I C D G A K I S C A A K I A S S L D A S M M A H Y L A M Q . . . G . K E Y E S Y T
UniRef100_R9KQV6 G D . V . S E I T H . . T V V N A V A I S G M I C D G A K A S C A A K I A S A V E A G L L G M Q M Q K S . . . G . S Q F H S G D
UniRef100_R9LK03 G S . Y . E A I A H . . T I V N A V A M I S G T I C D G A K P S C A A K I A A S V D A G I L G Y S M Y K N . . . H . Q E F K S G D
UniRef100_R9LSX6 G D . Y . D T I G R . . T I T N T L A N V S G I V C D G A K G S C A A K I A A S V D A A I L A H E M S M . . . D G . N T F F A G E
UniRef100_R9MC34 G . G Y . E E V V H . . T V V N A L A I V S G M V C D G A K A S C A A K I A A S V D A G I L G Y N M F L R . . . G . Q Q F Y A G D
UniRef100_R9MFU5 R O I G M . . V I R N M A S S L T G M I C D G G N H G C A M K G I V S V D A A Y R A V D L A M Q . . . D . A G I G E I H
UniRef100_R9MHL4 G D . F . E T V A H . . T L V N A L A I S G M I C D G A K S C A A K I A A A V D A G L L G Y H M Y R S . . . Q . Q Q F Y G G E
UniRef100_R9MSX2 Q T V C T . . T L V N M A S S L T G M I C D G G N H G C A M K G I V A D A A P R A V D L A I K . . . G . I G V A S V H
UniRef100_R9NAH4 D . V O I K A . . S V I N M L A G L T G M I C D G A K L G C A C K L S V A D A A V D S A D L A I A . . . D . Y I P G D N
UniRef100_R9NHG8 G . G Y . E E I K H . . T V V N A L A I V S G I V C D G A K A S C A A K I A S S V E A G I T V G Y M Y L N . . . E . Q E F C A G E
UniRef100_R9NLL3 G . G Y . E E A V H . . T V V N A L A I V S G M V C D G A K A S C A A K I A A S V D A G I L G Y N M Y L R . . . G . Q Q F Y A G D

UniRef100_R9PQG9 L . AA IHR . . . A I N S M V G D V S G V F C D G A K A G C A M K V S T G A S S A V K S A I L A V A . . . G . S S V S A Q Q
UniRef100_S2YDF7 G E . E . E Q I E N . . . T V I N T I A N I G S G M V C D G A K P S C A A K I S S A L Q S A I L G H E M A M . . . R G . I R F E A G D
UniRef100_S3JMX3 G D . E . D A I A R . . T I A N T L G D V G G V C D G A K P S C A A K I S S A V D A A I L G F E L G S K . . . E G . V A F Q K G E
UniRef100_S8F9Z3 Y . E Q I T F . . . A V K N M I G N I T G M I C D G A K P S C S L K V T S G T S A I L S S I L A I E . . . H . Q C V T P A E
UniRef100_U1Y408 E . A Q L E A . . . A V N N M I A M L O G M I C D G A K A T C A L K I A A G T N A A V H C S A L A I A . . . D . I S P S S L D
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UniRef100_U2BQN1 A S . Y . D E I C G . . . I I T D T I A T I G M V C D G A K P S C A A K I A S A V D C A I T A F H L S K N . . . K . R V F Q P G E
UniRef100_U2BR63 G D . L . R T I S H . . . T I V N C L A I A S G I V C D G A K A S C A A K I G M S V E A G L L G Y L M I E Q . . . D . Q Q F R A G D
UniRef100_U2EG06 E K I K A . . . A I Q N M L G N V T G M L C D G A K A G C A L K V S T C T N A A V H S A I L A M Q . . . G . I S I K S T A
UniRef100_U2IN24 Y . I N V C H . . . S V K N M I A N L T G M I C D G A K P S C S L K I S S G V S T A I L S A T L S M E . . . G . K H V T A A E
UniRef100_U2IPU0 K . E O S I G . . . A V K N M I G N V S G M I C D G A K P S C S L K A S T G V G S A M I S A M L S M Q . . . G . H V V T A T E
UniRef100_U2LC73 E E I T H . . . A C N A I F A N L A G M I C D G A K D T C A L K L S T C A N E A V I T A Y L A S R S . . . G . M N I K Q S V
UniRef100_U2SXB7 V R . F . D V I S R . . . T I S N T L A I C S G M I C D G A K S S C A A K I A S A V E A G I L G Y R M S R S . . . R G . F V D G E
UniRef100_U2TE26 R Q M A E . . . S I N N M A G S I T G M I C D G G N Q G C T M K G V V A V D A A W Q S V E M A M Q . . . D . V F I D S V H
UniRef100_U4KEH0 Y . K O S C Y . . . A I Q N V L S D S S G M I C D G A K S S C A M K V C T S S T A A V R S F M M A L C . . . D . N V V T G Q
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UniRef100_U7UUA7 H . G L . E R I G Q . . . V I C S M T G D V A G M I C D G A A N S C S M K V S T A V S A Y K A T V L A I N . . . G . T R V S G D D
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UniRef100_UPI0002088B6F F . E O S I S A . . . A I C S M I G D I T G I I C D G A K A S C A M K V S S A A G S A V K S A L M A L D . . . G . T R V T G C E
UniRef100_UPI000230D429 F . E O S C F . . . A I Q N V I S D S S G M V C D G A K A S C A M K V S T S S S A A V R S F L M A L S . . . S . H N V S P G D
UniRef100_UPI00023278AC E G . . . E K I I R E . . . L I T N S L V V N S G L I C D G A K P S C A M K I A S S L R N A F L A Y Q Q A K A . . . G . K S F Q P G D
UniRef100_UPI00024355AF Y . S A V E R . . . A V A S M T G D V V G M V C D G A C S C A L K V S A S V N S A G R A A L L S I A . . . G . R R V P G T N
UniRef100_UPI000283269A Y . E P M A M . . . A I S S M I G D I S G V I C D G A S N S C A M K V S T G A S A Y K A V L M A L D . . . D . T C V T G N D
UniRef100_UPI000288D204 L . E N V C Y . . . T I K N M I G D V S G M I C D G A K P G C A L K L S T A V G S S V K S A I L A T H . . . G . I E I S D K D
UniRef100_UPI000289A50F E . K Y I K Q . . . S I Q N V G N I M G M V C D G A K N S C A L K I S T C V F A A I T G A I L A M E . . . D . I S I T D K E
UniRef100_UPI0002DD0778 E E . . . K . D L I K E . . . T I T N A L A T N S G I I C D G A K S C A I K I A S S L K M A F L A Y K Q A K A . . . G . N S F K A G D
UniRef100_UPI0002E7D406 Y . E O S C Y . . . A I Q N V L C D C T G M V C D G A K S T C A M K V R T S S S A I L N G A M L A M N . . . S . T E A H D Q
UniRef100_UPI0002E871F4 . K E I Q G . . . T I H N M L A N I T G M V C D G A K P S C A I K L S T S A A E A I C A Y L A Q S . . . G . T I V P T K T
UniRef100_UPI0002F55F5A E S . F . E I I T R . . . T I T N T I A N V S G I V C D G A K P S C A A K I A S S V D A I M G Y H M A I . . . N G . N T A F C G E
UniRef100_UPI0002FE0D91 Y . E O S C Y . . . A I Q N V L S D C S G M V C D G A K S T C A M K V R T S S S A V T A F M L A M N . . . D . T Q A F D Q
UniRef100_UPI000306AC01 E D . . . R . E T I K E . . . T I T N A L A T N S G I I C D G A K S C A I K I A S S L K M S F L A Y K Q A K E . . . G . N S F K P G D
UniRef100_UPI00030F9BF7 E K I A G . . . A C S N I Y A N L T G M I C D G A K E S C S L K I S T A V E S I T A Y L S I N . . . G . V V V E G N V
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UniRef100_UPI00035C15F2 Y . K E I I S Y . . . A I Q N M I A N I T G M L C D G A K P S C S M K V A T G V S T A I L S A M M A M E . . . G . K S A T S A E
UniRef100_UPI0003605297 L . A Q I K R . . . G V Q S T I A S L S G M I C D G A K A T C A L K I S T G T N A A I Q A A T L A M N . . . D . I S P S P S D
UniRef100_UPI000360BBA6 V . R H I A G . . . A I K N L M E D L A G I I C D G A K A G C S L K L A T A A G T A V Q A A L F S L Q . . . G . V N V H F T D
UniRef100_UPI00037A36CB N Q M S F . . . A Q M N V I G N V T G M L C D G A K A G C A M K V S T C T G A A V Q S A L L A T S . . . G . M R V P G T N
UniRef100_UPI00036711A8 F . E O S C Y . . . A I Q N V I S D S S G M V C D G A K S S C A M K V C T S S T T A V R S F M M A I R . . . N . H C A A G Q
UniRef100_UPI000369B3C4 K P K T V E M . . . A I K N V A N L T G M I C D G K V G C A L K L S T A A A T A E S S L M A V R . . . G . T V V P D S N
UniRef100_UPI00036A4FE1 T . L H I A G . . . A I T N L I E D L A G V I C D G A K P G C A L K L A T A A G T A V H S A L F A I Q . . . G . V R V Q A T D
UniRef100_UPI00036E7A0B K . E Q I G F . . . A I K N M G N L T G M I C D G A K P S C S L K V T S G V S A A M L S A L L A M E . . . K . R V V T S N E
UniRef100_UPI00037081CA G D . Y . D V I G R . . . T I L N S L G N V G G I V C D G A K A S C A A K I S S A V D A G I M G Y E L A K . . . R E . R F F P F G E
UniRef100_UPI000372957C . K E I V H . . . I I N N S A G I T G M I C D G G N Q G C V M K A I V A L D A G P R A A E L S L S . . . G . S Y I F P I H
UniRef100_UPI0003733871 A A D N A S P D L . Y . D V V S R . . . T I T N S L G T I S G M V C D G A K S C A S K I A C A L E C S I T A L E M S L D . . . G . L A F P S G E
UniRef100_UPI0003747996 L . E Q I K H . . . G I Q N T I A S L S G M I C D G A K S T C A L K I S T S T N A A T Q A A T L A M N . . . N . L S P S T K D
UniRef100_UPI0003789E31 Y . E E I A M . . . T I Q N S L S G V T G M I C D G A K S S C A L K I A T A V Q S T I L S S L L A Q . . . H . Y T I A G G E
UniRef100_UPI000378C8B9 Y . K D V C H . . . A V K N M I A N L T G M I C D G A K P S C S L K I C S G V S T A I L S A L L A R E . . . G . K Y V T S A E
UniRef100_UPI00037A28E2 A D . Y . D V I G K . . . T I L I N T L G N V G G I V C D G A K A S C A A K I S S A V D A G I M G Y E M A R . . . R D . L F F P F G E
UniRef100_UPI00037A36CB G N . F . N Q I A N . . . T I I N T L A N T S G I I C D G A K P S C A A K I S S A L D A I L L A H T M S M . . . H D . V F V H A D E
UniRef100_UPI000380DDF6 Y P . Y . D V L C S . . . T I T N T I G T V S G M V C D G A K S S C A A K I S T A L Q T A I L L G K M S H . . . E . R S F Q P G E
UniRef100_UPI0003819044 A D . N . E G I A H . . . T I V N A L A S V S G I I C D G A K P S C A A K I A S S V E A G I L G Y H M Y L N . . . G . Q E F R G G D
UniRef100_UPI0003981C8F G D . F . E A I C R . . . T V V N T L A D V S G V V C D G A K P S C A A K I A S A V D A A I L S H C M S L . . . Q N . R T F G A T E
UniRef100_UPI0003A134FF . E Q M Y F . . . A I Q N T L G N V T G M L C D G A K A G C A M K V S T C S G A A V Q A A L M A K K . . . N . I C I P G N E
UniRef100_UPI0003A4ECDD G T . Y . K M V C A . . . S I T N I L G N L S G V I C D G A K A S C A M K I S S G I Y S A F D A A M L A I Q . . . M . D T L N P R D
UniRef100_UPI0003ADDECF G D . N . A A I A R . . . T I T N M L G N V S G I V C D G A K P S C A A K I A S S L Q A A I L A H K M A M . . . K D . R S F K G G E
UniRef100_UPI0003B30D5B G R . F . R E V A H . . . T I V N A L A T S G I I C D G A K P S C A A K I A S S V D A G I L G F H M F Q K . . . G . Y Q F Y G G D
UniRef100_UPI0003B725E4 . M G L F F D . . . A P K N Y I Q G V A G V F C D G A K P G C S S K A L L A E D M A I K S I E L A E E . . . G . V I Q S E K D
UniRef100_UPI0003B779DB A . R H V S G . . . A I K N L V A D L A G V I C D G A K A A C A L K L N T A A G S A V Q S A L F A I Q . . . G . V D V A D T D
UniRef100_UPI0003BE4938 I . E T I N T . . . A I I N M I S D V T G M I C D G A S N S C A M K V S S V V S S A F K S V L M A M Q . . . N . R C A S A N D
UniRef100_UPI0003E34F48 F . E N I S M . . . A I S S M I G D I S G I I C D G A S N S C A M K V S T S T S S Y K S I L M A M D . . . N . S Q V T G N E
UniRef100_UPI0003F591C1 P . D A E Q . . . A S A Y V L S S L M G M V C D G A K T C A L K V G T A S G E A Y Q A M K L A T S . . . G . R K L T S Q Q
UniRef100_UPI0003F5EEC4 G A . R . E Q I E H . . . T I I N T L A N T S G I V C D G A S A S C A A K I A S S V D A A I M A S Y L S M N . . . G . H V F L P G E
UniRef100_UPI0003F9F671 G . G Y . E E V I H . . . T I V N A L A I V S G M V C D G A K A S C A A K I A A S V D A G I L G Y N M Y L R . . . G . Q O F Y A G D
UniRef100_UPI0003FA1CAC V . H E H A G . . . A I K N L M E D L A G I I C D G A K A G C A L K L A T A A G T A V Q A A L F S H L . . . G . V K V K P T D
UniRef100_UPI0004009CE6D G R . Y . R E I A H . . . T I V N A L A M V S G I I C D G A K P S C A A K I A M S V E A G I L G F F M F Q K . . . G . K O F Y G G D
UniRef100_UPI000400D5C8 . T . Q K I G G . . . A I T N H I E N T S T L I C D G A K T S C A L K V G D A A S S A V K S A L L A I N . . . G . V I V S P I D
UniRef100_UPI0004010F26 G D . Y . E A I S R . . . T I T N A I G N V G G I V C D G A K P S C A A K I A S S A V D A A I M A H L A V . . . E G . Q A F S D G E
UniRef100_UPI000404F523 A . E Q A E Q . . . A V A Y V L S S V M G M I C D G A K A T C S L K V G T A S A E A F M G M L L A T H . . . G . T A L S S P Q
UniRef100_UPI000403B2AE G G . F . E E V V H . . . T V V N A L A I V S G I V C D G A K A S C A A K I A S S A V D A G I L G Y N M Y L R . . . G . Q O F Y G G D
UniRef100_UPI0004048F81 N . Q O I E Q . . . A I K L M I G D V S G I F C D G A K P G C A L K V S T G A S A A V K A A I M A I G . . . G . S O I G A E Q
UniRef100_UPI000404C648 M . E Q V D R . . . T I R N M V G N V A G M I C D G A K T G C A M K V A S A V S A G L Q S A M L A M D . . . G . I G I D R R E
UniRef100_UPI000407936F . A . E Q A E R . . . A V S T F V A S L L G M L C D G A K E T C S L K V G T A A A E A W N A A S L A I H . . . G . G G L R E N Q
UniRef100_UPI0004090118 G S . R . E Q I M F . . . T I N T L G I V S G I V C D G A K P S C A A K I A A A L D A A I L A D K M A F N . . . D . G Y F K G G E
UniRef100_UPI00040EDDBF G G . Y . K E V T H . . . T I V N A L A I V S G I V C D G A K S S C A A K I A S S I E A G I L G Y N M Y M E . . . R G . Q O F L D G D
UniRef100_UPI000413485D G S . L . A Q F E A . . . T V V N T L A N V G G I V C D G A K P S C A A K V S A S V D A A I L G C D M A L . . . S D . H N F K A G D
UniRef100_UPI00041613C4 L . K N I E Y . . . C I N N M L S D V S G M I C D G A K T C A L K I A T G T N A A I Q C A N L A M N . . . G . I T A T S N D
UniRef100_UPI0004169C4B V . E K I G G . . . A V K N H I A C S F V A C D G A K T G C A L K V G E M V A S A V K S G L L A I G . . . G . C I V R G T D
UniRef100_UPI0004186BE4 L . K D V E N . . . T I K N T L G D I A G M I C D G A K T S C A L K V A S A V E A A I N S A L L A M K . . . G . T A I P G K D
UniRef100_UPI00041CA3D4 R . N Q I A A . . . A V K H L I G D L S G M I C D G A K P G C A L K L S T A A G N A V Q A S L L A I E . . . G . V T L T N S D
UniRef100_UPI00041E72C1 E P . . . K . A V U E A . . . T I N N L A G T S G V V C D G A K P S C A M K I A L S V G N A I L A Y K M A R T . . . D . N N F K S G E
UniRef100_UPI00042019E6F G D . Y . K T V I H . . . T I V N A L A I T S G I V C D G A K A S C A A K I A A A V D A G I L G F E M Y R N . . . G . Q O F Y G G D
UniRef100_UPI0004201E14 Y . E P I S R . . . A V S S M V G D L A G M I C D G A A N S C A M K V S T S V G S A F K A V L M A I D . . . N . T G V T G Q E
UniRef100_UPI000422EAB3 Y . T H V C Y . . . A V K N M I A N I T G M I C D G A K P S C S L K I C S G V S T A I L S A L L A M E . . . G . K H V T A A E
UniRef100_UPI000423710D F . E O S C Y . . . A I Q N V L S D S S G M V C D G A K S C A M K V C T S S T A A V R A F L M A R R . . . N . K V V S N Q
UniRef100_UPI0004267E44 E S . L . E V V A D . . . S I T N T L G N V S G M I C D G A K A S C A M K I A S S G Y A A F D S L H L S K A . . . K . K V L S N G E
UniRef100_UPI000427327C F . E D V C H . . . A V K N M I A N L T G M I C D G A K P S C S L K I C S G V S T A I L S A L L A R E . . . G . K H V T S V E
UniRef100_UPI0004279044 D . P L . G A I E K . . . T I A T M S G S V V G M V C D G A A N S C G M K V L A S V T S A Y E A V L L A I S . . . D . R V A G S D
UniRef100_UPI00044D3E81 G G . F . E E I A H . . . T I L V S V I T S G M I C D G A K P S C A G K I A T I M A G L I G H D M F K N . . . G E . Q O F R S G E
UniRef100_UPI000462FF1A D . V Q A A K . . . A M E L V L G N L V G M L C D G A K E T C S L K V G T G A F E A V Q A A E L V M N . . . G . H C I E I P Q
UniRef100_UPI0004639C5B I . C K A E K . . . A M A I L V S N L V G M I C D G A K D T C A L K V G T G A Y E A Y C A A M M V L E . . . G . H E L D G P Q
UniRef100_UPI0004640B14 G T . V . E Q I E H . . . T V V N T I A N V G M I C D G A K A S C A A K I A S S L Q A A I L G H Q M A M . . . Q G . I T F P P G E
UniRef100_UPI00046473C4 G N . L . E Q I Q N . . . T V V N T I A D A G G I V C D G A K P S C A A K I A T S L Q A A I L S H K M A M . . . R G . I V F S S G E
UniRef100_UPI0004684C3B E R . Y . E V V A N . . . S V I N T L G N V S G I I C D G A K S S C A M K I S T T T N A A F D S Y I L A K E . . . G . R F L Q G G D
UniRef100_UPI000469850B Y . E Q I C H . . . S I K N M I A N L A G M L C D G A K P S C S L K V S S G V S T A I L S A L L S M E . . . G . R C V T S A E
UniRef100_UPI00046A0861 Y . I K I S Y . . . A V Q N M I A N I T G M I C D G A K P S C A L K L A S G V S T A I F S A I L A M E . . . G . K C V T S V E
UniRef100_UPI00046E54AA Y . A N V C N . . . S V K N M I A N L T G M I C D G A K P S C S L K I S S G V S T A I L S A T L S M E . . . G . K C V T A A E
UniRef100_UPI00046F39A8 L . E Q C N H . . . A I V N V L S D C S G M V C D G A K S T C A M K V R T S T N S A V S A F L M A M H . . . S . Q H V E N Q
UniRef100_UPI00046F70C9 L . Q O S N Y . . . A I I N V L S D C S G M I C D G A K S T C A M K V R T S T N S A V N G F L M Y R N . . . S . Q H V Q K Q
UniRef100_UPI000470DF48 G . G Y . E E I I H . . . T V V N T L A N V S G I V C D G A K A S C A A K I A S S A V D A G I L G Y Y M A M H . . . G . Q E F V D G D
UniRef100_UPI000470EDDB G G . F . E E V A H . . . T I L N S L A A I S G V I C D G A K P S C A A K I A A S V D A G I L G Y D M F I D . . . K . K E F V G G D

UniRef100_UPI000472CED3 Y . EQ I SY . . . SVKNMIANLTGMICDGAKPS CALKLTITGVTAVMSAM LAIQ . . . H . KYVTSVE
UniRef100_UPI00047853AA DA I AA . . . AINMMLGNLAGLLCDGAKHD CALKIATTSAGEALLAAL LAEK . . . G VAMSGKN
UniRef100_UPI000478677B RE I EN . . . AVHLMMGNLTGMLCDGAKYGC CALKMATTSAGA AVESAAM AALG . . . G AFLPERN
UniRef100_UPI000478B76D GG . Y . RE I SH . . . TIVNALSIVSGMICDGAKAS CAAKIATAVDAGILGYH MFKE . . . G QQFRGGD
UniRef100_UPI000478BA9F GD . Y . KSVIH . . . TIVNALAITSGVICDGAKAS CAAKISAAVDAGILGFE MYRN . . . G QQFYGGD
UniRef100_UPI00047894AD S H I EG . . . TIKNMALITGMICDGGKVG CALKLYNAAATAYISAQ LAVE . . . G SVVPSDN
UniRef100_UPI00047CECD3 L NV I QA . . . TIINMVSDISGIIICDGA SNS CAMKVSSVTMSAFKSVL MAKQ . . . G TVQSSH
UniRef100_UPI00047D518C RO I EG . . . SIENMVANLSGMICDGAAG CALKLASASAAVQSAI IAKH . . . E CFVPSMN
UniRef100_UPI00047E2814 I PO MEL . . . AITHMMGNLAGLICDGAIG CAMKAMTGVAAAFRSAE LAIS . . . G FGIPETD
UniRef100_UPI00047F7DC2 I EE I CG . . . AIKNMIAITSGMICDGA LG CAYKLIISVSSALDAAK MAVD . . . N IFIPSN
UniRef100_UPI0004800CCA KTLTLL . . . VIONMASSITGMICDGGNHG CAMKGIVAVDAAYQSVN LALC . . . G IAIERQH
UniRef100_UPI000480F58B KE I TN . . . IINNMASGITGMICDGGNQG CTMKGIVATDSAFRSVE LAMN . . . N FISISNH
UniRef100_UPI0004812F9D EO I EG . . . AIONMIAIDLSGMICDGA KPG CALKLISSAASAMQSAI IAKQ . . . D CLVPSQN
UniRef100_UPI000481BD86 KD . Y . SAVIH . . . TIVNALAITSGIVCDGAKAS CAAKISAAVDAGIMGFE MFRN . . . G QEFYGGD
UniRef100_UPI0004835BDC E PC I TR . . . AINNVIEDLGGVLC DGAKTG CALKLATTAAGSAVQAAL LAHR . . . G VGAVPV
UniRef100_UPI000483D566 GT . Y . ED I AH . . . TVVNALIDS GMVCDGAKAS CAAKIASAVEAGILGLK MREN . . . G SEFFGGD
UniRef100_UPI00048407FB AD . Y . N I I TS . . . TITNALCTIGMVC DGAKAS CASKISEAVDCGILAYN LAK . . . DG KVF KSG
UniRef100_UPI00048572F0 Y . EH V CR . . . SVKNMIANLTGMICDGA KPS CSLKITS GSVTA VLSAL LME . . . G KCVTSE
UniRef100_UPI000486D379 KO I LA . . . APNLVLGDVTGMVCDGA KHG CSLKLSTAA SVAIESAL LAMK . . . N IDVPAS
UniRef100_UPI000487A125 L KN I NY . . . AIKNMIGDISGIIICDGA KT CALKIATGINAATQCAT LAIN . . . D IEPRES
UniRef100_UPI0004893023 F ES I TY . . . SIKNMAGNVGMICDGA KTG CALKVSTGVSAATQSA L LAIE . . . K IBIGET
UniRef100_UPI000489DAAC EO I EG . . . TVQNMLANLTGMVC DGAKE CAIKLSTSSAEAVLSAY LSH . . . N TVVPVK
UniRef100_UPI0004876FC I EO V SA . . . AICSMIGDVS GVICDGA KTA CAMKVSSAGAAVKAAL MAID . . . G RVTGT
UniRef100_UPI000486FC1 A RH I AG . . . SIKNMLDLAGVICDGA KT CALKLATTAAGTAVQAAL FSLH . . . G VNVQDT
UniRef100_UPI0004880C16 SE I KA . . . AIONMMLGNVTGMMCDGA KGG CAMKVATCTSAAGVQSA L LASK . . . G MITSSTN
UniRef100_UPI000491433C ET . P . EV I NH . . . TIANTLGSVSGIIICDGA KPA CASKIAASVEAGILGFH MARK . . . G QHFQAG
UniRef100_UPI00049711BC GD . L DV I NH . . . TLVNS I V I SGMICDGA KPS CAGKIATTSVQAGIFGYE MYQN . . . G QQFKKG
UniRef100_UPI000497B560 GD . Y . KAVIH . . . TIVNALAITSGIVCDGA KAS CAAKISAAVDAGILGFE MYRN . . . G QQFYGGD
UniRef100_UPI0004B019E5 Y . EO V SF . . . AVQNMIANLTGMICDGA KPS CALKVITGVSTAVLSAM MAME . . . N RCVTSV
UniRef100_UPI0004B06938 GD . Y . ES I AH . . . TIVNSLAMISGMVC DGA KSS CAAKIAEAVDAGILGFK MSKN . . . G QQFVGD
UniRef100_UPI0004B0E061 HD . R . EV I KE . . . TILSNALAVNSGIIICDGA KPS CAMKIASIRNGFLAME QAES . . . N NSF KAG
UniRef100_UPI0004B27D60 AD . Y . KTI I SQ . . . TLVNSLA I ASGIIICDGA KPS CAAKIALSVNAGIMGFE MCQY . . . G QKFHGG
UniRef100_UPI0004B2B5C4 GD . Y . QTI I AH . . . TLVNSLA I NSGIVCDGA KPS CAAKIAESVDAGILGYY MYKN . . . G YQFKGG
UniRef100_UPI0004B2C343 AD . D . DTTAH . . . AIVNTLGNVSGIIICDGA KPS CAMKIATGIYA AFDSAT LASY . . . H RDLHGG
UniRef100_UPI0004B65006 Y . EO I SY . . . SVKNMIANLTGMICDGA KPS CALKLTITGVTAVMSAM LAMO . . . H KYVTSVE
UniRef100_UPI0004B82859 QP L . S V I ED . . . TITNSLLNVSGIVCDGA KPS CAAKISSVDAAFMGYH MAL . . . EG NRYLPGE
UniRef100_UPI0004BA18BC G Y . DE I SQ . . . TIINTICTAGGIVCDGA KSS CAAKIAASVDAAILTGWQ MASK . . . Q RVFPGE
UniRef100_UPI0004D3CAB1 Y . ET I SM . . . AISSMIGDVS GMICDGA SNS CAMKVSTSSAAWKAVL MALD . . . D TAVTGN
UniRef100_UPI0004E19D09 S SO M AG . . . AITNITEDLAGIICDGA KSG CALKLATTAAGTAVQAAL FAIH . . . G VNVHST
UniRef100_UPI0004F930DE L EO I KH . . . GIQNTIASLSGMICDGA NST CALKISTSTNTATQAAT LAMN . . . N IAPTTKD
UniRef100_UPI000509BABF K KA I NH . . . SVKNMIAGLSGMICDGA KQG CALKISTTSVSSAQSAV LAIN . . . D IEVSKD
UniRef100_UPI00051B6669 GD . Y . KAVIH . . . TIVNALAITSGIVCDGA KAS CAAKISAAVDAGILGFE MYRN . . . G QQFYGGD
UniRef100_UPI00051BE5E1 GR . Y . DE I AH . . . TIVNALA I NSGMLCDGA KAS CAAKIASAVEAGILGMQ MYRH . . . D SQFYAG
UniRef100_UPI00051BFE97 GG . F . EE I AH . . . AVVNGVA ILSGTICDGA KSS CAAKIAMAVEAGILGYD MYRN . . . G QEFYAG
UniRef100_UPI00051C0711 GT . A . EO I EN . . . TIVNTIVNAGGITCDGA KPS CAAKIFSSLQA AFLGHS LAM . . . KG FRFEAG
UniRef100_UPI0005269EBB I I CVNM . . . AISNMIGDVAGMICDGA SNS CAMKVSTSSAAWKAVL MALD . . . E TRVTGN
UniRef100_UPI00052BD101 KE I EN . . . TIKNMALNITGMIC TGNLA SLKANTGVKA AFLSAK MAIK . . . N VIPNKC
UniRef100_UPI00052C17FA K EO I GY . . . AIKNMIAITGMCCDGA KPG CALKVATGVSSAMLAAM MAIE . . . Q RVVTST
UniRef100_UPI00052D7434 K EO I GF . . . AIKNMVGNTLGMICDGA KPS CSLKVS SSVSSAMLSL LAME . . . Q KVVTSN
UniRef100_UPI00052DC3D2 K EO SSY . . . AIKNMIGNTGMICDGA KPS CSLKASTGICSGLIAAM MAMQ . . . N NYVKVV
UniRef100_UPI00054D1D18 CG . Y . DA I SQ . . . VLNSLATASGIIICDGA KPS CAAKIALAVDAGIMGFE MYRY . . . G QRFNGD
UniRef100_UPI00054F526F EO I NG . . . TIKNMLANVSGMICDGA KVG CALKLSTSAIAVQSAF LAIS . . . N NIVPDKN
UniRef100_UPI000551AC2E FDRFED . . . AFKPIYAE GSYGVFC DGA KTG CAAKIALQATEAFNAIN FAIS . . . N KIEPTD
UniRef100_UPI0005550901 L QNV I Y . . . SIKNMAGN IAGMICDGA KTG CALKVSTGVSAATQSSL LAME . . . G BISEKD
UniRef100_UPI0005594DB9 GD . E . KD I SH . . . TIVNALAVTSGIVCDGA KPS CAAKISAAVDTGIFGYE MYRN . . . G QQFYGGD
UniRef100_UPI00055ABE32 Y . SQ V TF . . . AVKNMVGNITGMICDGA KPS CALKISS GSVTA VLSAI MAME . . . H KVVSSM
UniRef100_UPI0005654CFA LT . L . EO CAM . . . AVETTLGTMSGLICDGA KSS CATKIASGISCAPDSYY TAKK . . . N RRLFG
UniRef100_UPI000568CCCO QP L . EV I LGN . . . TIVNSISTIGMVC DGA KSS CAAKIAASISMFLAYD LAV . . . NK LNFKDG
UniRef100_UPI00058D6E89 L ETADA . . . AIVRLMAADVGMLCDGA GTG CANKVSSSVGSA YRAVV SAM . . . G SRMPYD
UniRef100_UPI00058EA537 V KN I KC . . . AVKNMLADVSGMICDGA KAT CALKIATAVNAAITQCAI LAMS . . . N IEPCSKD
UniRef100_UPI00058F7465 G NL . DO I KK . . . TIVNTLANISGIIICDGA KVS CAAKIASLLDAAIMAHY LAMN . . . G KTYGAY
UniRef100_UPI0005A6581E Y . EO I SH . . . CINNMIGDVS GIIICDGA GSA CSMKVSTTS SAAVKSSL LAIN . . . N LRVTSN
UniRef100_UPI0005A7BDA1 L EO I KH . . . GIQNTIASLSGMICDGA KST CALKISTATNAATQAAT LAMN . . . N ISPTQD
UniRef100_UPI0005B25459 KO I SG . . . SVQNMLANLTGMICDGA KET CALKLSTTSVGEAILSSY LAID . . . N IMTKPN
UniRef100_UPI0005B26E11 EE I EG . . . AITNMC EGV TGMVCDE VTEG CSLKVRTSTENATFISAY LSME . . . G VVVGTKN
UniRef100_UPI0005C560FF GS . V . EO I QN . . . GIINTLGNVSGVICDGA NNS CASKIASGIYA AFDGAM LSQI . . . G NVFTSN
UniRef100_UPI0005CD1BEA F EO G CY . . . AIONV I SDAGMVC DGA KAS CAMKVSTSSSTAVRAFL MALN . . . Q HAVSTQ
UniRef100_UPI0005D177AC GN Y . QOVSL . . . TIINTLGNVSGIVCDGA KPS CAAKIASVSDAAILAFH LSI . . . QN KSF LPE
UniRef100_UPI0005D21129 GD . Y . AR I AR . . . TIINTLANVGGIVCDGA KSS CAAKIAASVNAAMLAHY MSM . . . ND KSFQPG
UniRef100_UPI0005D301C2 F EO M CF . . . AIONTSLDITGMICDGA KST CAMKVKSTNSAVMSFL MAIE . . . N NEARQ
UniRef100_UPI0005D4011A I KO I SA . . . AINSMIGD IAGMICDGA KTS CAMKVSSAGSATKSAL MAID . . . G LGVTGN
UniRef100_UPI0005DDAE7D TO I EG . . . AITNMLANLSGMICDGA KAG CALKLASASAAVQSAI IAKQ . . . D CIVPMM
UniRef100_UPI0005DF79E5 F EO SCM . . . AIONTVANLTITGMFC DGA KST CAMKVKSTSSAVMSSTL MALD . . . Y NEARQ
UniRef100_UPI0005E1A8D7 Y . QTI SY . . . AISNMISDISGIIICDGA SNS CAMKVSTATACAFKSVL MAQQ . . . N SVAGER
UniRef100_UPI0005EDBE13 F EO SCS . . . AIONV I SDSGSMVC DGA KSS CAMKVCTSTTAVRSYL MAMG . . . N HSVKNQ
UniRef100_UPI0005EBCA29 DO I KA . . . AIONTIGNVSGMICDGA KAG CAMKVCTTSNVAVQSA L LAIN . . . N QIKST
UniRef100_UPI0005F18896 Y . QTI AM . . . AIGSMIGDISGMICDGA SNS CAMKVSTSVTS AWKAVL MALD . . . E SGVTGN
UniRef100_UPI00061465DC F SS I AM . . . AISSMIGDVS GMICDGA SNS CAMKVSTSSAAWKAVL MALD . . . N TAVTGN
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UniRef100_UPI00061CEC06 F TTVSM . . . SINSMIGDISGIIICDGA SNS CAMKVSSSASAYKAVL MAMQ . . . N QSVAGT
UniRef100_UPI00061D174B Y . ET V AM . . . AISSMIGDVS GMICDGA SNS CAMKVSTSVSSAYKAVL MALD . . . N SCVTGN
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UniRef100_UPI00067E87A0 NO I GY . . . AIVNMALNITGMICSGGNLA CSLKANTGVKASFLSK MALE . . . N IIVPNRC
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UniRef100_UPI000682F91F Y NO I TF . . . AVKNMVGNITGMICDGA KPS CALKISS GSVTA VLSAI MAME . . . D KVVSSM
UniRef100_UPI00068BDE31 ET . V . ET I LE . . . TIVNSTATCGMICDGA KSS CAAKIATLYSAFLGYE LAKN . . . K TSFRAG
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UniRef100_UPI00068F3505 AS F . DT I AK . . . TITNVLGNVSGIVCDGA KSS CAAKIASVDAAILMGHY LAM . . . DD NTYGAG
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UniRef100_UPI000A0591C9 F.ETISM . . . AITSMMIGDLSGIICDGAANGCAMKVSTSVTSYGKAVLMALD . . . N.IQVTDGE
UniRef100_UPI000A056B98 LDLFDT . . . IYKIYIEGVGGVFCDGA KRGCAMKALS.SAKMALS ESK.LGEE . . . G.VKIGFDE
UniRef100_UPI000A1C9B8B R.EOVSY . . . AVKNNMIGNLTGMICDGA KPSCAMKVSSGVSTAMLSAL.MAME . . . N.KVVTDIE
UniRef100_UPI000A7D81D4 Y.ESI ER . . . AVSSMA GD TVGMVCDGAGCS CALKVAA SVNAAGRAVV.LSLA . . . G.RRVPGTN
UniRef100_UPI000A919F2C GD.Y.EVVAH . . . TIVNALAIISGTICDGA KPSCAAKIAASVEAGIVGYH.MYMH . . . E.QQFRGGD
UniRef100_UPI000B02A458 EQIEN . . . AIHTNLGNVAGIICDGA KSSCALKISTCTNAA MQASL.LAIN . . . H.LRIKSN
UniRef100_UPI000B34E5B4 GG.Y.ERVSH . . . TITNTLANVSGIVCDGA KPSCAAKIASAVDAAYMAHY.MAMK . . . D.EYFNAGE
UniRef100_UPI000B34FC2F L.EQMAA . . . CTSNMIGDVSIGICDGA GSA CSMKVSTASAAYKAAL.MAVN . . . N.YGVGENE
UniRef100_UPI000B369692 Y.AQVMY . . . AVQNMIA TLTGMICDGA KPS CALKVTSGVSTAVMSAI.MAMD . . . Q.KCVTAVE
UniRef100_UPI000B37B82C QS.L.DTICH . . . TIVNALAIISGILLCDGA KPSCAAKIAASVDAGIMGM.MYKE . . . NG.SQFYRGE
UniRef100_UPI000B398C94 G.SF.DVVKH . . . TVVNALAVVSGILCDGA KPSCAAKIAAADGAILGLD.LYRS . . . G.QQFYNGD
UniRef100_UPI000B41319A Y.EQITF . . . AVKNNMIA TLTGMICDGA KPGCSMKVASGVSTALLSAM.LAME . . . Q.KCVTSVE
UniRef100_UPI000B497A29 NEIQOR . . . AITNMQGNVAGMFCDGA KAGCALKLSTCTSTAVQSAI.MAME . . . G.LAICVST
UniRef100_UPI000B803E6A AS.F.PVIAR . . . STANTLANISGVICDGA KASCAAKIASVDAAILSFR.LAE . . . KD.QYFEAGD
UniRef100_UPI000B889D7C I.EOMKY . . . GINSMVADISGVVCDGA KSGCALKIATAVNSAVRAAT.MAIN . . . G.IGANAYD
UniRef100_UPI000B96A611 Y.ADI CH . . . SVKNMIA TLTGMICDGA KPSCSLKICS.GVSTALLSAL.LARE . . . G.KHVTEAE
UniRef100_UPI000B9AD5C9 Y.KQSCY . . . AIQNVLDGCTG IICDGA KSTCALKVKRTTSSAIYSSM.LAIN . . . A.TGTTDQ.
UniRef100_UPI000BE30C64 T.KQIEG . . . AITSNMIA GLTGMICDGA KIGCAYKLAISVSSAIDASE.LAIN . . . G.VVTPSNN
UniRef100_UPI000BE32075 AD.Y.DTIGK . . . TLINSLGNVGGIVCDGA KDSCAAKISAVDAGITGYE.MAT . . . RN.HSFPFGE
UniRef100_UPI000BEC9F6 EKIKY . . . AITQNLGNVGTGMICDGA KAGCAMKVATCSSAAVQSAL.LASQ . . . G.MCISATD
UniRef100_UPI000BF17E78 Y.DTIAM . . . AITSMMIGDVSGMICDGA S.NSCAMKVSTASAAYKAAL.MALD . . . D.TAVTGN
UniRef100_UPI000BF7A1D0 TTIKS . . . VIQNMIGNVAGMICDGA KAGCALKVSSCTSTAVHTAL.MAIR . . . G.VEIKSTD
UniRef100_UPI000C070483 KQIAG . . . ACTNVFANLTGMICDGA KESCSMKLSTAESVIAAYLAIN . . . G.IITDKNV
UniRef100_UPI000C079C6A EQIDG . . . AITENMIA NLSGMICDGA KAGCALKLASAASA AVQSAV.IAKY . . . N.CIVPALN
UniRef100_UPI000C085CD7 ED.R.QVKEE . . . TLANALAVNGGILCDGA KASCAMKIASLNRNAFLAYD.QAKA . . . G.OSFKAQD
UniRef100_UPI000C0899A6 GG.Y.EEIAH . . . TIVNSVAI LSGTICDGA KSSCAAKISMAVEAGILGFE.MYRS . . . G.QQFYDGE
UniRef100_UPI000C126F74 Y.QAVSM . . . AITSMMIGDLAGMICDGA S.NSCAMKVSTASAGSYKAAL.MALD . . . G.TRVTGN
UniRef100_UPI000C1C4F8C LN.T.EQIGK . . . VLVNTLATSGGIVCDGA KPSCAAKIAIALDN AFLAID.MAK . . . NN.IVFESGD
UniRef100_UPI000C704F69 LS.L.AQIKH . . . AITETLGLTSGVICDGA KSSCATKIASGISAAPDGY.Y.AASK . . . N.RKLEFGE
UniRef100_UPI000C756D7A EAFNTN . . . VIQNMASGLTGMICDGA KNHGCAMKGIVAVDAAFRAAD.MAKK . . . G.ICIEHIH
UniRef100_UPI000C7898D9 Y.KEVCF . . . AVKNNMIA TLTGMICDGA KPSCALKVTS.GTSTILLSAM.MAME . . . Q.RVYTSVE
UniRef100_UPI000C790D6F GG.Y.DAVAH . . . TIVNALAIISGVICDGA KASCAGKIAVAVESGILGYQ.MYRQ . . . G.HQFWGSD
UniRef100_UPI000C7A5CFB GS.R.EEIDD . . . TITNTVGTIGGMVCDGA KASCAAKIAAAVDTLSLMQM.MSQR . . . G.NVFPQGE
UniRef100_UPI000C7B0E47 AN.L.PAIKQ . . . TLINALAIISGTICDGA KSSCAAKIATAVDAGILGYE.MQCN . . . N.QRFCCGD
UniRef100_UPI000C7B4464 ES.F.AITCD . . . TIVNSIATIGGMVCDGA KPSCAAKISVAVENAILNALE.MAKR . . . K.RAFQPG
UniRef100_UPI000C7BBC84 GD.Y.KAVSM . . . LITNTIANVGGIICDGA KPSCAAKIAASLEAAFLAYE.MSR . . . EG.KTFLPGE
UniRef100_UPI000C7E66C1 GG.I.EEISQ . . . TITNTLANVSGIVCDGA KPSCAAKIASVDAAILMAFS.MAMO . . . N.RGFCPGE
UniRef100_UPI000C838674 GS.L.EQIGA . . . TITNTLANVGGIVCDGA KSSCAAKISAAVDAAILGHD.MAM . . . AG.RSFHAGE
UniRef100_UPI000C8393D6 AG.Y.DTIGK . . . TIVNSLGA VGGIICDGA KASCAAKIASAVEAGILLAYE.MAK . . . NG.RTFAFGE
UniRef100_UPI000C852B7D GT.M.KQIEH . . . TIINTLGSISGMVCDGA KPSCAAKIASALYSGMIAQN.LAMC . . . G.HVFEPDT
UniRef100_UPI000C8536EC E.QQMLG . . . AMQNLGSI SGMICDGA KEGCANKVELSSGLAVQAAFLAMO . . . G.MSIGKSD
UniRef100_UPI000C8567A5 E.KQVQY . . . TIKNNMIA TLTGMVCDGA KSGCAVKVATAVSAAVQCAV.LAMN . . . N.VHAPSID
UniRef100_UPI000C860ECO Q.SALCR . . . AITKNNMIA TLISGLICDGA KSGCALKIATSVASAMQCAQ.LALA . . . G.AGAGCLD
UniRef100_UPI000C8648F GT.R.AQIGA . . . TVVNTLGNVGGIVCDGA KASCAAKISAAVDAAGILASD.MAL . . . AG.RGFRAGE
UniRef100_UPI000CDB216C L.KEIEH . . . TVNTSLAGISGMICDGA KSSCALKIALSVQNSILSSA.LSLK . . . G.IGIRPGE
UniRef100_UPI000CEE9E5C AD.Y.KIICD . . . TITNALCTIGGMVCDGA KSSCASKISEALDCGILAYN.LAR . . . DG.KVFKSGD
UniRef100_UPI000CF192D3 F.EVVS.M . . . GICNMIGDLSGILCDGA KSGCTMKVSS.TVQSAPKSL.LALE . . . K.KRVSGMD
UniRef100_UPI000CF9CB2C RD.Y.QHVAD . . . TITNTLGNVGGIVCDGA KPSCAAKISAAVHAALMGHY.MSM . . . HG.QVFKEGE
UniRef100_UPI000CFACD79 K.KEIQG . . . GINNVA GLTGMVCDGA KVGCAFKMAMGAIMSYYSAL.LAVD . . . E.VFLDVDN
UniRef100_UPI000D08F8B8 G.GY.EEVIH . . . TVVNALAIISGVICDGA KASCAAKIASAVDAGILGYH.MYLN . . . G.QQFYAGD
UniRef100_UPI000D0EAF6E Y.YRICH . . . SVKNMIA TLTGMICDGA KPSCALKIISGVSTALLSAL.LSIE . . . G.KCVSSVE
UniRef100_UPI000D0ED673 EELTK . . . VIQNMASGLTGMICDGA KNHGCVMKGITAVDAAFRAVD.LAME . . . G.ICIENIH
UniRef100_UPI000D1E74A E.EKAEM . . . AITKNNMIGD AVGMICDGA GFSCALKVVSSVSSMYRAVQ.LAQS . . . G.VVIPATN
UniRef100_UPI000D16B181 V.EQISA . . . AITCSMIGDITG IICDGA KSGCAMKVSSAAGSAVKSAL.MALD . . . G.IRVTGN
UniRef100_UPI000D1756B8 F.EQSCV . . . AITKNVLDSTTGMVCDGA KATCAMKVSSSSQAAYKSML.LAMN . . . N.HAVNKQ
UniRef100_UPI000D1E7FE7 S.Y.ELVSW . . . TITNTIATIGGMVCDGA KSSCATKIASAVECALGLD.LMAKK . . . G.HVFQPG
UniRef100_UPI000D383FBF Y.AVISM . . . AITASMMIGDVSGMICDGA S.NSCAMKVSTSVSSAYKAAL.LALD . . . G.SAVSGND
UniRef100_UPI000D3A1105 AD.Y.NIICN . . . TITNALCTIGGMVCDGA KSSCASKIAEAVDCGILAFN.LAR . . . DG.KVFKAGD
UniRef100_UPI000D3E07D8 QVKAAXXXIQNTIGNVSGMICDGA KAGCANKVSTCSNVAVQSAM.LAIN . . . D.QEIKSTD
UniRef100_UPI000D3ED3B7 F.KQISD . . . SITCSMIGDITAGIICDGA KTS CANKVSSASAAYKAAL.MALD . . . G.IRVTGO
UniRef100_UPI000D54E33D Y.SQITF . . . AVKNNMIA TLTGMICDGA KPSCALKISTGVSTAVLSAI.MAME . . . Q.KVSSGE
UniRef100_UPI000D6459D2 E.QIIN . . . AMQIILGNLCCIICDGA KESCALKISTAAVEAVRAGF.MASQ . . . GA.ILESGT
UniRef100_UPI000D64A857 F.ETVSM . . . GICSMIGDLSGIICDGA ANGSCAMKVSTSVASGYKSVL.MAMD . . . E.THVTGN
UniRef100_UPI000D6A8123 GG.Y.REVAH . . . TIVNALAIISGVICDGA KPSCAAKIAAAVDAAGILGYE.MYIH . . . G.QQFYGGD
UniRef100_UPI000D78245F YS.E.QEVAW . . . CLTNTLAIAGGILCDGA KPSCAAKIAAGLQSAWLSLD.LVH . . . GG.YRFPAGE
UniRef100_UPI000DC1E517 Y.NNICY . . . AVKNNMIA TLTGMVCDGA KPSCALKVSSGVSTALLSAM.LSME . . . N.HHVTEAE
UniRef100_UPI000DD46AB8 L.SVYQA . . . TITNMVSDVSGIICDGA S.NSCAMKVSTVTMSAFRSVL.MARQ . . . G.IQVSPHD
UniRef100_UPI000DE353AA I.HNKS . . . TIKNNMIGDVSGMICDGA KTG CALKVATVVEASFNSTI.LSLG . . . D.IEITKTE
UniRef100_UPI000DE3B614 GG.Y.DEISH . . . TIVNSLAI VSGIICDGA KPSCAAKIASVEAGIVGYH.MYKN . . . G.QEFKSGD
UniRef100_UPI000DE3E565 G.SL.EQIEK . . . TITNTLANVSGIVCDGA KASCAAKIASLDAAIMAHF.LAMK . . . G.NYEAET
UniRef100_UPI000DE4BEB8 ENMAM . . . TINNMASSTIGMICDGA GNGCTMKGVVAVDAAYSSVN.MAMN . . . G.VYIYNAH
UniRef100_UPI000DE61C72 ER.Y.EVIEH . . . AITQNLGDI SG IICDGA KASCAMKISTSTITAAFDAA.MAMA . . . G.RNLSGGD
UniRef100_UPI000DECC5CD Y.KAAGM . . . AITSMMIGDVAGMICDGA S.NSCAMKVSTSAAYKAAL.MALD . . . G.ACVSGDE
UniRef100_UPI000DEF03C7 GG.Y.KEIAH . . . TIVNALAIISGVICDGA KPSCAAKIAASVDAAGILGYE.MYKN . . . G.QQFRSGD
UniRef100_UPI000DEF259B Y.QTVSM . . . AITSMMVGDISGMICDGA S.NSCAMKVSTSVSSAYKAAL.MAMN . . . Q.SHVTGN
UniRef100_UPI000DF1438D K.EEIFS . . . SMLNVLSVSGIVCDGA KEGCALKIATAVEVAVTSK.LAVE . . . G.KSVDTKD
UniRef100_UPI000DF6DC3C G.GY.CEACH . . . AVVNALISVAGMVCDA KPS CAGKIAFVSNAGILGYV.MYRD . . . G.QQFYGGD
UniRef100_UPI000E0A886D F.DQVSA . . . SITCSMIGDVAGMICDGA KTS CANKVSSASAAYKAAL.MALD . . . G.IRVTGN
UniRef100_UPI000E294F6E F.EAVSD . . . TICSMIGDVS GMICDGA ANGSCAMKVISTSTGYKSML.MALD . . . N.TRVTFGE
UniRef100_UPI000E3DD8D3 L.PEIKC . . . AITNMMLATLQGMICDGA KATCALKIATAAGTNAITST.LALA . . . D.IQPSLE
UniRef100_UPI000E415A64 G.GY.EEVIH . . . TVVNALAIISGMVCDGA KASCAAKIASVDAAGILGYN.MYLN . . . G.QQFYAGD
UniRef100_UPI000E415E63 K.ELELY . . . TIVNMASSTIGMICDGA GNGCTMKGVAACDTAFRSVE.FAIE . . . G.VHIDKAH
UniRef100_UPI000E4A5D29 Q.NEIKH . . . SLENVVADLSGMICDGA KAGCSLKIAATAVNSAYRSSY.LAMN . . . Q.ITVSNTD
UniRef100_UPI000E5516D8 GN.Y.EAICR . . . TITNTLANVGGIVCDGA KSSCAAKIASAVDAAITAHQ.MSM . . . AG.HVFQPG
UniRef100_UPI000E69E6A7 GD.Y.SAICR . . . TITNTLANVGGILCDGA KSSCAAKIASAVDAAILLAH.MSM . . . NG.VFPQGE
UniRef100_UPI000E686D30 I.KVIRM . . . AITSMVGDITGMICDGA S.NSCAMKVSTGAVSAWKAAL.MALD . . . G.TSVLGDV
UniRef100_UPI000EFBFB3F F.EQSCS . . . AITQNTISDTSGMICDGA KSTCANKVSSQAQSMKSSL.LAIN . . . N.HCVTKQ
UniRef100_UPI000EFC8C67 Y.DQVAA . . . AVKNNMIA TLTGMICDGA KPSCAMKISTGVSTAVLSAM.MAMD . . . G.QCVTPVE
UniRef100_UPI000F04B479 GD.Y.DEVSR . . . TITNTIANVGGIVCDGA KPSCAAKIASAVDAAIMAHY.LSV . . . NH.HVFEDGE
UniRef100_UPI000F081968 M.KQIEG . . . DIKNMIA GSGMICDGA KVGCSYKLAISVGAAILDAAK.MAIK . . . N.IFIPDQ
UniRef100_UPI000F08C649 Y.AQISH . . . AVGSMIGDVAGVICDGA KTA CANKVSSASSAAILKAAM.MAQD . . . H.HFVSGGE
UniRef100_UPI000F52D358 GT.Y.EDVSH . . . TIVNALAIISGVICDGA KSSCAAKIASVEAGIFGYR.MFQD . . . G.QQFLGD
UniRef100_UPI000F63E4E3 I.QQIYG . . . AITKNMIA GSGMICDGA KLG CAYKLCVSVSSAIDAAK.MALD . . . N.IYVPSND

UniRef100_UPI000F63FEC6 GD . . . L . . RT I SH . . . T I V N C L A I T S G I V C D G A K A S C A A K I G T A V E A G I L G Y L M I A E . . . D . . Q Q F R A G D
UniRef100_UPI000F6449DF E O I D G . . . A M Q N M L G S V S G M L C D G A K D G C A L K L G N C A G E A V L A A C L A M E . . . G . S I I R Q T D
UniRef100_UPI000F68E51C F . S T I S M . . . A L S S M I G D S I S G L I C D G A A N S C A M K V S T S V N S S Y K S I L M A M D . . . D . . S Y V T G N E
UniRef100_UPI000F778D8E F . E V A Q N . . . A I N N M V E D S V G M V C D G A G C A C A L K V G N A V S S M Y R A V T L A Q Q . . . G . V A I P V S N
UniRef100_UPI000F7823C1 Y . Q M A I S . . . A I Q N M I G D S A G M V C D G A G C S C A M K V A T S I S S M Y R S V N L A I Q . . . G . T I T P A S N
UniRef100_UPI000F784D51 Y . D M A V S . . . T I N N M M G D A V G M V C D G A G C S C A M K V A S S V S S M Y R S M N L A I Q . . . G . T I S P S N N
UniRef100_UPI000F78F92D F . E V A Q K . . . A I N N M A E D A V G M I C D G A G C A C A L K V G N V V S S M Y R A V K L A Q Q . . . G . V E I P V S N
UniRef100_UPI000F796C8D Y . A G A C K . . . A V R N M A G D A P G M V C D G A G A S C A L K V G T A V N S M Y R A V Q L A A Q . . . D . I V P P A T N
UniRef100_UPI000F79C1FE Y . E M A T A . . . T I K N M V G D A A G M V C D G A G C S C A M K V A S S V S S M Y R A M N L A I Q . . . G . I A I P G S N
UniRef100_UPI000F79F9B0 F . Q T A C R . . . S I N N M A S D A A G M I C D G A G C S C A M K V A T S V A S M Y R S V N L A I M . . . Q . I A V P A S N
UniRef100_UPI000F79FC33 F . Q E A C S . . . A I K N M V G D A A G M V C D G A G C S C A M K V A S S T S S M Y R A V N L A I Q . . . D . I E I P S S N
UniRef100_UPI000F7ACB4C Y . E M A T A . . . S I K N M V G D V S G M V C D G A G C S C A M K V A S S V S S M Y R S M N L A I Q . . . G . T I V I P G S N
UniRef100_UPI000F7AFBE3 Y . Y O A C S . . . A I K N M I G D A A G M V C D G A G C S C A M K V A S S T S S M C R A V D L A I Q . . . G . V E I P S T N
UniRef100_UPI000F8EDFB2 E S . . . K . D I I E Q . . . T L V N G L V S L S G I V C D G A K P S C A G K I A I S L D G A F M G Y K Q A K M . . . N . K S Y A K G D
UniRef100_UPI000FD68C51 P E I R A . . . A I Q N M L G N V T G M M C D G A K G G C A M K V A T C T S A A V Q S A L L A S R . . . G . K S I S S T N
UniRef100_UPI000FDD8B619 Y . E T I A R . . . A I S S M I G D V S G M I C D G A S N S C A M K V S T S A A S A W K S V L M A I D . . . N . T G V T G N E
UniRef100_UPI001012BBEA V . K O I K N . . . A I N N V L S T F L G T C D G A K K V G C A L K A G T G T F V A I Q S A E L A I N . . . N . A N I P C G N
UniRef100_UPI00101DE188 K O I D G . . . T I Q N M L G N I S G M I C D G A K V G C A L K L S T A A S T A I Q S A L L A I N . . . G . H I P N Q N
UniRef100_UPI001021529F G . T L . E Q I E M . . . T I T N T L A N I A G I V C D G A K A S C A A K I A S S L D A A T M A H Y L A I L R . . . G . V A F D E T C
UniRef100_UPI00102897E6 F . D I A A M . . . A I S S M I G D I S G M I C D G A A N S C A M K V S T S V T S A Y K S V L M A M N . . . Q . T G V T G N E
UniRef100_UPI00102803B8 A D . . . D . T I E H . . . T I V N G L A I T S G T I C D G A K P S C A A K I A M A V N A G L I G F H M A Q K . . . G . K E F V H G E
UniRef100_UPI00102F89E5 A S . Y . E V M E S . . . T I K N A L G N I S G I V C D G A K P S C A A K I A I S M Q A A F M G Y E L A K R . . . H . R T F R G G D
UniRef100_UPI001030090E G S . F . G O Y Q A . . . T I A N T L A N V G I V C D G A K P S C A A K I A A A V D A A I L G C D M A L . . . A N . V D F R P G E
UniRef100_UPI0010300BE6 G G . L . D A V S H . . . T I V N A L A I S S G I V C D G A K A S C A G K I A A L A V D S G I L G W E M Y R Q . . . G . Q Q F L G G D
UniRef100_UPI0010309D70 G D . R . A E A A H . . . T I V N A L A I T S G I I C D G A K A S C A G K I A A A V D A G I L G Y Y M Y I N . . . G . Q E F H G G D
UniRef100_UPI001030B3CB A D . E . T A L A H . . . T I V N A V A I L S G T I C D G A K P S C A A K I A A S V D A G I L G Y L M Y R S . . . G . H E F K R G E
UniRef100_UPI001030BBEB E O I D G . . . A I K N M I A N I S G M I C D G A K S S C A L K V S T S A S V A V Q S A L L A I N . . . G . D I T F D R N
UniRef100_UPI0010317AA6 A P . F . E V I A D . . . T I T N I L G N V S G I V C D G A K P S C A A K I A S V D A A I L G H S M A M . . . D G . M T F S D G E
UniRef100_UPI0010318F64 R E I H M . . . A I N N T I I N V F G V V C D G P R P A C A L K L S S A A G I A T E G A M L A M E . . . G . F E V P L G S
UniRef100_UPI0010321B1C E D . . . K . T I V E E . . . T I T N A L A V N S G I I C D G A K S C A M K I A S I R N A S L A Y L Q A K S . . . D . N S F E V G D
UniRef100_UPI0010477C7A L Q I E G . . . A C O N M L A N T G M I C D G A K E T C S L K L S T S A E E A V I S A Y L A M E . . . N . I I V K S N V
UniRef100_UPI001047AA39 N I S P . . . T I N N I I A N Q A G I V C D G A K P S C A L K L G T A S T A V Q S A L L A I Q . . . G . T N I K A H N
UniRef100_UPI0010632499 F . N I L S R . . . G I N T M I G D I S G I L C D G A A N S C S L K V A T I Q S A Y K S L L L A I E . . . E . K N V K G E D
UniRef100_UPI001073345B Y . E I L T M . . . T I N S M I G D I S G I I C D G A S N S C A M K V S T S V S A A W K A V L M A I D . . . N . S S V S G T D
UniRef100_UPI0010E59F1D G D . D . Y O I E S . . . A V I N T L G T L S G I I C D G A K P S C A A K I A S C V D A T A F T S V D M A I C . . . H . Q R M S D G D
UniRef100_UPI0010F8A622 E D . . . R . Q I I K E . . . T L S N A L A T N S G M I C D G A K P S C A M K I A S I R S A F L A L D Q A K S . . . G . N S F K A G D
UniRef100_UPI0010FF47EC L . K E I N Y . . . S I K N M V G N I S G M I C D G A K T G C A L K V S T G V S A A V Q S S L L A M N . . . N . I V I S E K E
UniRef100_UPI00110640D9 G T . Y . Q Q V S L . . . T I I N T L G N V G G I V C D G A K P S C A A K I A S S V D A A L M A F H M S I . . . Q N . K S F L P G E
UniRef100_UPI0011069AFD G T . A . E O I E N . . . T V V N T I V N A G G I T C D G A K P S C A A K I F S S L Q A A F L G H S L A M . . . K G . F R F E A G E
UniRef100_UPI0011070C3B G . G L . K E I A H . . . T L V N C L A I T S G I V C D G A K S S C A A K I A V A I D A A I L G Y A M Y E D . . . G . Q Q F R A G E
UniRef100_UPI001107153E K O V A A . . . A M O N T I P N V F G V V C D G A K L A C A L R I S S G T G I A L E C S D L A I S . . . Q . V R I A N N Q
UniRef100_UPI001158928E Y . E N I A M . . . A V N N M I G D V S G M I C D G A G S C A M K V S T S I A S A W K A I L L A I D . . . N . S V V S C N D
UniRef100_UPI0011589DBD L . D Q V K Y . . . A I K N M A G N I V G M I C D G A K T G C A L K V S T G V S A A I Q S A L L A I E . . . N . I E I S D K D
UniRef100_UPI00115D02D5 F . D T I A M . . . A I N N M I G D V S G I I C D G A S G S C A M K V S T S I S S A W K A I L L A I D . . . N . S V V S G N D
UniRef100_UPI001178C98E G G . Y . K E I A H . . . T I V N A L S I V S G I V C D G A K A S C A A K I A A G V D A G I L G Y H M Y K Q . . . G . Q Q F R D G D
UniRef100_UPI001183AA94 P . D M A E H . . . A V A S L I S S M G M L C D G A K P S C G L K V S A A A G E A Y A A L M A M D . . . K . R G V Q Q D E
UniRef100_UPI00119CAB58 Q P . . . E . N I L E E . . . M I S N L S V N S G L L C D G A K P S C A M K I A S S L R N A F L A Y E Q A K S . . . N . N S F K I G D
UniRef100_UPI0011A1EBECF Y . E P V A L . . . A T G S M I G D I S G I I C D G A A N S C A M K V S T S V S A A Y K A V L M A I D . . . S . S G V T G N E
UniRef100_UPI0011AA74CD Q O I K A . . . A I Q N T I G N V S G M I C D G A K A G C A M K V S T C S N A V Q S A L L A I N . . . H . Q E I Q S T D
UniRef100_UPI0011A6BE87 G T . L . E O I G A . . . T V V N T L A N V G G I V C D G A K S S C A A K I S A A V D A A I L G H D M A M . . . A G . R S F R A G E
UniRef100_UPI0011C3E3AE G S . Y . E M V C D . . . A I T N I L G N I S G V I C D G A K A S C A M K I S S G I Y S A F D A T M L A I H . . . K . D Y L K S G D
UniRef100_UPI0011C7A661 E H M K Y . . . T I N N M A S I T G M I C D G N I G C V M K G I V A I D A A Y R A I E L A M N . . . N . I Y E I D I H
UniRef100_UPI0011C7B96A F . K E I C F . . . A I R N M V A T I A G M I C D G A K N S C A L K V A S A E A A V H A A F L A K R . . . G . T A V S G R E
UniRef100_UPI0011C9D6B6 E S . M . E V I S N . . . T I I N S I A T I G M V C D G A K P S C A A K I R S A V D T A M L A Y R L A K . . . D G . R V Y Q S G E
UniRef100_UPI0011C9F067 Y . E E V T F . . . A V K N M I A N L T G M I C D G A K P S C A M K L T S G V S T A V L S A M M A I E . . . H . R C V T A F E
UniRef100_UPI0011CBAB3A A . Q H I A G . . . A I K N L T E D L A G I I C D G A K A G C A L K L A T A A G T A V Q A A L F S L H . . . G . V N V N T V D
UniRef100_UPI0011CC227F R O I E G . . . A I E N M V A N I S G M I C D G A K A G C A L K L A S A A A V Q S A I I A K Q . . . E . C Y V P P M N
UniRef100_UPI0011CC5522 D . H O I E A . . . S I L N M I S G L T G M L C D G A K L G C A Y K L A V A V D A A A D A S N M A I S . . . K . V H I P G D N
UniRef100_UPI0011DDB73B G T . L . A Q I S S . . . T I V N T L A D V G G I V C D G A K P S C A A K I A S A V D A A T M A H N M S M . . . R S . R S F Q A G E
UniRef100_UPI0011DDBD5E Y . D E V A A . . . A V K N M I A N L T G M I C D G A K P S C A M K L T S G V S T A V I S A M M A M D . . . G . H C V T P V E
UniRef100_UPI0011DE2D02 G T . Y . E O I E N . . . T I T N A I A T L S G I V C D G A K A S C A A K I A T A V D S A I L A H K M A M S . . . G . D V L K S G E
UniRef100_UPI001243264B L . N A I N R . . . T I K N M V A D V S G M V C D G A K S G C A L K I S T T V V S T A V L C A A L A M E . . . G . V E V S S N E
UniRef100_UPI00124490F0 A . Q H I A G . . . A I K N L T E D L A G I I C D G A K A G C A L K L A T A A G T A V Q A A L F S L Q . . . G . Q N V L C T D
UniRef100_UPI00124740AD1 G G . Y . E E I A H . . . T V N N A L A I A S G I I C D G A K A S C A A K I S A S V D V G I L G Y Y M Y K E . . . G . Q V F V D G D
UniRef100_UPI001248AE0F L . K E A F G . . . A I K N M V G S I A G M I C D G A K P A C S L K V A S A E A A V Q A A F L A K R . . . G . T S A N G H E
UniRef100_UPI00125871DF Y . H O I G G . . . S I K N M V A D V T G V I C D G A K I G C S L K L S T A A G V A V K S A Y L A I E . . . N . I I V P A D N
UniRef100_UPI001258984B H H I E G . . . A I K N I L A D I S G I V C D G A K V G C A L K L S T S V A S A I Q A A L L A I D . . . N . R I V P T G N
UniRef100_UPI001258767C E . S O I F K . . . S M L N M V G S I T G L I C D G G K E G C A Y K I L A S A W A V K A A L L A O K . . . G . V A V H E D N
UniRef100_UPI00128B840A L . N N I K C . . . S L V K N M I A D I Y G M I C D G A K S T C A L K I A T G I Q A A I Q C S I L A M H . . . D . I E P T S N D
UniRef100_UPI00128B8528 F . Q O L G M . . . T I K N M T G S V T G M I C D G A K Y G C S H K I S A S V S A A I Q S S L L A M N . . . H . N C L N G M N
UniRef100_UPI00129AC328 G T . G F . Q A V E N . . . A I F N M L G D I S G I F C D G A K S C S M K V S T S A A A I K S A M L A V D . . . G . I R V T E N E
UniRef100_UPI0012AB7299 L . R E L K C . . . A I N N M V A A L Q M I C D G A K S T C A L K I A A G T N A A V T C S T L A I A . . . D . I A P T S M D
UniRef100_UPI0012ABE8FD L . E A L N R . . . T I D N M A A I T G M I C T G G N H C C C L K V V S A V D C A F T A S S L A V H . . . G . A A V G A P H
UniRef100_UPI0012ADCC21 L . S H I N S . . . T I K N M T G T V T G M I C D G A N S C A L K I S A S V S A A I Q S S L L A I N . . . S . Q S L N N M D
UniRef100_UPI0012AF4322 E A I T R . . . A V I Q N M A S G L T G M I C D G G N H G C T M K G I V A V D A A F R A A D M A M D . . . G . V C I E D I H
UniRef100_UPI0012AF8FD9 D . Q O M G W . . . V I R N M T G A I S G M I C D G K V G C A L K A Q A S A T A A A F L C A R M A I N . . . N . V L R L P T D
UniRef100_UPI0012B1F23C D E M K D . . . V I N N M A S I T G M I C D G G N Q G C V M K G V A A V E T I W R S V D L A M N . . . G . A S I S W N H
UniRef100_UPI0012B202BF H . V O I Q G . . . S I N N M I A S I T G M I C D G A K L G C S Y K L S I S V D A A I D A S N M A I K . . . N . I F I P I D N
UniRef100_UPI0012B20D78 G S . F . A Q Y E A . . . T I V N T L A N V G G I V C D G A K P S C A A K I S A A V D A A I L G C D M A I . . . S D . D N F L A G D
UniRef100_UPI0012B29F2C G G . Y . Q E V V H . . . T I V N T L A I V S G I V C D G A K A S C A A K I A S A V D A G I L G Y H M Y I R . . . G . Q Q F Y G G D
UniRef100_UPI0012B2C833 G G . Y . D E I S H . . . T I V N S V A I L S G T I C D G A K S S C A A K I A L A V E A G I L G F Q M Y K N . . . G . Q E F V G G D
UniRef100_UPI0012B2DDAA G N . E . K O I S D . . . T V A N T L A N I S G I I C D G A S A S C A A K I A T S V D A A I M G S I M A R E . . . N . N A F M S G D
UniRef100_UPI0012B2EB59 K N I E G . . . S I K N M G G V T G I I C D E V K E G C S L K I R T N T E N A I M S A Y L S M E . . . D . I V S I T K D
UniRef100_UPI0012B35B19 G . G Y . K E V I H . . . T V N N A I A V S G I I C D G A K A S C A A K I A S A V D A G I L G Y N M Y I N . . . G . Q E F Y A G D
UniRef100_UPI0012B366A0 E D . . . K . T I I K D . . . T I I N S L A V N S G I I C D G A K S S C A M K I A S S L R N A A L A Y E Q A H N . . . Y . K S F K S G D
UniRef100_UPI0012B3DC24 E O I S G . . . S V O N M L A N I T G M V C D G A K E T C T L K L S T S A G E A V L S S Y L A I D . . . N . I I V K P D N
UniRef100_UPI0012B3FC58 G E . E . A E I S K . . . A I S N T L A M V G G I V C D G A K A S C A A K I S S S L E A A I L A M E M S L E . . . E K . T A F Q S G E
UniRef100_UPI0012B4284B R D . L . K I I G E . . . T V N N A I S T I G M V C D G A K S S C A A K I A M S L S T S F L A Y D M A I . . . N G . I S F K A G E
UniRef100_UPI0012B42F45 S E M D K . . . C L R N M A S S I T G M I C D G G N H G C A M K G I A A C D A A F R S A D L A M A . . . G . I S I E D I H
UniRef100_UPI0012B4B74C G N . V . E D I S Q . . . T I T N T I A N V G G I V C D G A K S S C A A K I A S S V D A A I L A H S M G S . . . K K . R C F K P G E
UniRef100_UPI0012B59954 F . K A V S M . . . A I S N M I G D V S G M I C D G A A N S C S M K V S T A V G A C K A V L M A I E . . . G . T R V T G D E
UniRef100_UPI0012B59A5D G G . Y . D A V V H . . . T I V N A L I T S G M V C D G A K A S C A A K I S A A V D A G I L G F E M Y R N . . . G . Q Q F Y D G D
UniRef100_UPI0012BA6B36 G S . D . E Q I E Y . . . A V I N T L G T L S G M I C D G A K A S C A A K I A T G V D T A F T C V D M A I R . . . N . Q C M S A G D
UniRef100_UPI0012BB2EF8 Q O M I N . . . A A Q I L L G N L C C V L C D G A K E N C S L K I S T A A V E A V Q A G Q M A H L . . . G I . N P E A G A
UniRef100_UPI0012BB69D0 P E I A C . . . A I S N V L G N V A G M L C D G A K A S C A L K I S T C T N A A M L A A T L A M R . . . R . L R V A S N E
UniRef100_UPI0012BB73BB L . E O A G S . . . A I F N M F G D V T G M F C D G A K T G C S L K V S T S A S A A K A A L L A I D . . . G . T R I T G H E
UniRef100_UPI0012BB8C85 E E V E C . . . A Q T M I G D V T G M I C D G G K P N C A V K V A T C I N S A C R A A L L G M E . . . H . I R P G S R E
UniRef100_UPI0012BC4B69 E K M V G . . . A V Q S V I G T F A G M L C D G A K V S C A Y K V A T V A A T A V Q F A Q L A M N G A N V E P G D
UniRef100_UPI0012BD8E78 E S . . . K . E I I E K . . . T L T N A L A T N S G I I C D G A K P S C A S K I A S S L R N A F L S F D Q A K T . . . E . N S F V S G D
UniRef100_UPI0012BD958B E P . . . K . E V W E . . . T L S N A L V G T F G V V C D G A K A S C A M K I G S L G N A I L S Y R Q A K S . . . N . N S F K N G D
UniRef100_UPI0012C524A0 E D . . . E . K I I K E . . . T L K N A L T N S G I I C D G A K A S C A I K I A S S L K M S P L A Y K Q A K E . . . G . N S F K A G D
UniRef100_UPI0012EE9FA7 K A I G F . . . A I Q N M I G N V T G M L C D G A K A D C A L K I S T C T N A A M Q A A F M A M K . . . G . L C V Q K T D
UniRef100_V2Y2N1 A T . . . L . S E V E D . . . T I I N A L A I T S G I I C D G A K A S C A A K I A A S V D A G I M G F N M S K E . . . G . Q R F K G G D

| | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------|-----------|----|-----|-----|-------|----------|----------|---------|-------|-------|-------|-----------|-----------|-------------------|---------------|------|---------------|---|---|---|
| UniRef100_V4JGF5 |V.EH | MAG...A | IK | NIL | ED | L | AGVICDGA | KAG | CALK | NT | A | GA | AV | QAAL | FSL | Q....G.VNVKDT | D | | | | |
| UniRef100_V6IYT76 |GD..Y. | DVIAH... | T | IV | NS | VAIT | S | GMICDGA | KPS | CAAKI | SA | AV | DAGILGYQ | MYQN |D.QQFSSG | D | | | | | |
| UniRef100_V7IAR5 |YD.Y. | KTISS... | I | VT | NT | IAIT | T | GGVICDGA | KPS | CASKI | AM | LD | NMIMAIN | MSR |EG.RTFHQGE | D | | | | | |
| UniRef100_W1IUK4 |Y.Y. | PQVAM... | A | I | C | SMIGD | S | GMICDGA | KNS | CAMKV | T | S | VSSAYKAVL | MAID |N.SGVRGS | D | | | | | |
| UniRef100_W2BZQ9 |WE.V. | PQIEK...V | IE | SIL | VN | VGGI | CDGA | KST | CAAKL | AT | AL | DA | MLTSLD | MLE |AG.FEGLDE | D | | | | | |
| UniRef100_W8T7L5 |E | EALIEG... | A | I | S | NVIAN | L | S | GMICDGA | KAG | CAYKL | S | AAAA | MQSAI | NVKY....G.SIVPKFN | D | | | | | |
| UniRef100_X1EDB0 |K | EQILG... | S | M | Y | NMV | GA | LAI | I | IDR | C | PRGR | LKRS | EK |N.SCVRGS | D | | | | | |
| UniRef100_X6QCS0 |Y..E | EVVAM... | A | I | S | SMIGD | S | GMICDGA | KNS | CAMKV | T | S | AAAYKAVL | MAID |N.SRVGTNE | D | | | | | |
| UniRef100_A0A0J5P7T7 |F..Q | AIISM... | A | I | C | SMIGD | S | IGVLC | DGA | ANS | CAMKV | T | S | AAAYKAVL | MAID |N.SRVGTNE | D | | | | |
| UniRef100_A0A2U8FHH0 |F..E | AISM... | A | I | C | SMIGD | S | IGVLC | DGA | ANS | CAMKV | T | S | VSSYKASIL | MAID |D.TQVTGN | D | | | | |
| UniRef100_A0A3N4VLT4 |F..N | VISM... | A | I | C | SMIGD | S | IGVLC | DGA | ANS | CAMKV | T | S | VSSAYKAVL | MAID |D.SRVGTNE | D | | | | |
| UniRef100_A0A3N4W6L3 |F..N | AISM... | A | I | C | SMIGD | S | IGVLC | DGA | ANS | CAMKV | T | S | VSSAYKAVL | MAID |N.SRVGTNE | D | | | | |
| UniRef100_A0A3R8MG26 |F..K | AVSQ... | A | I | C | SMIGD | S | IGVLC | DGA | ANS | CAMKV | T | S | VSSAYKAVL | MALE |N.SRVGTNE | D | | | | |
| UniRef100_UP10004ED7B54 |F..N | AIISM... | A | I | C | SMIGD | S | IGVLC | DGA | ANS | CAMKV | T | S | VSSYKAVL | MAID |N.SRVGTNE | D | | | | |
| UniRef100_A0A1C5QX57 |G..S | ISQIKK... | T | E | INT | L | AN | I | PGI | CDGA | KIS | CAAKI | AAS | LDA | AF | LAHH | LAMN |G.QSYAPYT | D | | |
| UniRef100_A0A448W3N0 |G..D | ISLKK... | N | D | REY | P | CQYS | GNHL | | | | | | | | | | | | | |
| UniRef100_G6C136 |M..I | KTICE... | N | I | | | | | | | | | | | | | | | | | |
| UniRef100_UP10007B3E538 |Q | QPLSV | I | E | IT | NT | L | AT | I | S | G | M | L | C | D | G | A | K | P | S | |
| UniRef100_A0A564VK10 |A | QVSK... | A | M | K | N | M | I | S | A | L | S | G | V | I | C | D | G | A | K | L |
| UniRef100_A0A1F7RGL9 |V | QVSK... | A | M | K | N | M | I | S | A | L | S | G | V | I | C | D | G | A | K | L |
| UniRef100_A0A1F7S1R1 |T | QVEK... | A | M | K | N | M | I | S | A | L | S | G | V | I | C | D | G | A | K | L |
| UniRef100_A0A3M1RZ09 |P | KQ....L | | | | | | | | | | | | | | | | | | | |
| UniRef100_A0A5C9EBK1 |A | EVINA... | I | V | R | T | S | L | G | N | O | A | G | I | I | C | D | G | A | K | L |
| UniRef100_A0A358LCV7 |K | EQISD... | I | V | R | T | S | L | G | N | O | A | G | I | I | C | D | G | A | K | L |
| UniRef100_A0A525D9V7 |P | QEQIND... | M | L | C | T | S | Q | V | M | C | G | V | C | D | G | A | K | L | P | S |
| UniRef100_R6ICAI |K | EQISD... | M | L | C | T | S | Q | V | M | C | G | V | C | D | G | A | K | L | P | S |
| UniRef100_UP10009321914 |A | KQIND... | L | V | T | G | V | T | C | W | S | M | G | F | V | C | D | G | A | K | L |
| UniRef100_UP10009ABF8C2 |N | QIKE... | S | I | N | L | Y | L | S | T | S | M | G | F | V | C | D | G | A | K | L |
| UniRef100_A0A0941IH7 |E | QIKK... | S | I | N | L | Y | L | S | T | S | M | G | F | V | C | D | G | A | K | L |
| UniRef100_A0A2A1ZQZ3 |N | DKD... | A | M | N | L | Y | L | S | T | S | M | G | F | V | C | D | G | A | K | L |
| UniRef100_A0A2N1PKM8 |E | EAEAN... | A | I | N | T | V | I | G | S | I | G | M | L | C | D | G | A | | | |

Figure S1. Multisequence alignment produced by RoseTTAFold of two regions with the conserved cysteines of TtcA proteins. The first sequence and numbering correspond to EcTtcA.

| | 120 | 130 | 140 | 150 | 160 | 170 |
|--------------------------------|-----|--------|-------|-----|-----|-----|
| 124995 | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2P8VLK6\|A0A2P8VLK6_9ENTR | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0H319P2\|A0A0H319P2_PECSS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2X2A3V8\|A0A2X2A3V8_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1K1LJ61\|A0A1K1LJ61_9PROT | | E. GR | T. CS | LS | RL | RR |
| tr\|A0A154U724\|A0A154U724_NEIFL | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1V2DX27\|A0A1V2DX27_9ALTE | | E. GKT | T. CS | LS | RL | RR |
| tr\|WOHXPO\|WOHXPO_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A265QRM6\|A0A265QRM6_AGGAC | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1B6B2J0\|A0A1B6B2J0_ALCFA | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2U8FW74\|A0A2U8FW74_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A246J2Z4\|A0A246J2Z4_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0U3KA27\|A0A0U3KA27_9BURK | | P. GKT | T. CS | LS | RL | RR |
| tr\|A0A099LFJ1\|A0A099LFJ1_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2N4XR11\|A0A2N4XR11_9RHOO | | E. GKT | T. CS | LS | RL | RR |
| tr\|C6X8M4\|C6X8M4_METGS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1I2G6V5\|A0A1I2G6V5_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|F7RWZ5\|F7RWZ5_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1C6LTR8\|A0A1C6LTR8_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1F4M1Z4\|A0A1F4M1Z4_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1D8J3B6\|A0A1D8J3B6_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2A2AP57\|A0A2A2AP57_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0K6GZP4\|A0A0K6GZP4_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0S9F0W6\|A0A0S9F0W6_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1N7A9F0\|A0A1N7A9F0_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1F4G480\|A0A1F4G480_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2S0P7B7\|A0A2S0P7B7_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|K2BEF1\|K2BEF1_9ZZZZ | | E. GQ | T. CS | LS | RL | RR |
| tr\|A0A1D9GWF3\|A0A1D9GWF3_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A163CB63\|A0A163CB63_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|D2TZ97\|D2TZ97_9GAMM | | A. GKT | T. CS | LS | RL | RR |
| tr\|A0A0P0MIV0\|A0A0P0MIV0_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|L2EN66\|L2EN66_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0P1D2N2\|A0A0P1D2N2_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| sp\|Q12N51\|TTCA_SHEDO | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1U9JN14\|A0A1U9JN14_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1Y5D1A3\|A0A1Y5D1A3_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1L8MBV1\|A0A1L8MBV1_9ALTE | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A080K7B7\|A0A080K7B7_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2N9X7G9\|A0A2N9X7G9_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A248LMP6\|A0A248LMP6_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|G2IW96\|G2IW96_PSEUL | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A136H2U1\|A0A136H2U1_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0M2V1O9\|A0A0M2V1O9_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0T9PB77\|A0A0T9PB77_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1I7MJ66\|A0A1I7MJ66_9GAMM | | A. GKT | T. CS | LS | RL | RR |
| sp\|B1KFY6\|TTCA_SHEWM | | E. GQ | T. CS | LS | RL | RR |
| tr\|A0A1H8PUT2\|A0A1H8PUT2_9BURK | | P. GKT | T. CS | LS | RL | RR |
| sp\|Q15U56\|TTCA_PSEAG | | E. GKT | T. CS | LS | RL | RR |
| sp\|A1VJK9\|TTCA_POLNA | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1X0W1Y8\|A0A1X0W1Y8_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0A3BCG4\|A0A0A3BCG4_9PAST | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0C3QY96\|A0A0C3QY96_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1Z9XC69\|A0A1Z9XC69_9ALTE | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2D7GR50\|A0A2D7GR50_ALTSX | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1F4GZB8\|A0A1F4GZB8_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2M8RY88\|A0A2M8RY88_9PAST | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1X3DH74\|A0A1X3DH74_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1R4IF13\|A0A1R4IF13_9VIBR | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0H4HWD6\|A0A0H4HWD6_HAEDC | | E. GKT | T. CS | LS | RL | RR |
| sp\|A8FVF7\|TTCA_SHESH | | E. GQ | T. CS | LS | RL | RR |
| tr\|A0A1B3LJ13\|A0A1B3LJ13_9PROT | | E. GKT | T. CS | LS | RL | RR |
| tr\|HOPFW8\|HOPFW8_9RHOO | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2G3K5C5\|A0A2G3K5C5_9BURK | | D. GKT | T. CS | LS | RL | RR |
| tr\|ROE3E6\|ROE3E6_RALPI | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2SON4V1\|A0A2SON4V1_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A167IKV2\|A0A167IKV2_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|N6Y5V6\|N6Y5V6_9RHOO | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A151JF95\|A0A151JF95_9VIBR | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0F4PF68\|A0A0F4PF68_9VIBR | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2I5T7N7\|A0A2I5T7N7_SER53 | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2M8S5Q1\|A0A2M8S5Q1_9PAST | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1D9BE07\|A0A1D9BE07_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0L7T4H2\|A0A0L7T4H2_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1B7L7X3\|A0A1B7L7X3_9ENTR | | E. GKT | T. CS | LS | RL | RR |
| sp\|Q013K3\|TTCA_HAES1 | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A257CR00\|A0A257CR00_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|WQ02T6\|WQ02T6_9PAST | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1B7UI15\|A0A1B7UI15_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0N0GL12\|A0A0N0GL12_9NEIS | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2E3M490\|A0A2E3M490_9RICK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A011NQM2\|A0A011NQM2_9PROT | | A. GKT | T. CS | LS | RL | RR |
| tr\|A0A109RUW1\|A0A109RUW1_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1S8YQ17\|A0A1S8YQ17_9ENTR | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A068Z3J7\|A0A068Z3J7_9GAMM | | A. GKT | T. CS | LS | RL | RR |
| tr\|A0A085GT12\|A0A085GT12_HAFAL | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1X3RLS0\|A0A1X3RLS0_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2U0SNX6\|A0A2U0SNX6_9PAST | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1A9AYD0\|A0A1A9AYD0_PLESH | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2T7SXT3\|A0A2T7SXT3_9BURK | | E. GKT | T. CS | LS | RL | RR |
| tr\|I3DD15\|I3DD15_HAEPH | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2D9KIY0\|A0A2D9KIY0_9ALTE | | E. GKT | T. CS | LS | RL | RR |
| sp\|Q65TL6\|TTCA_MANSM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2H9TAV4\|A0A2H9TAV4_9ZZZZ | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A1E7ZF70\|A0A1E7ZF70_9ALTE | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2G8EIK3\|A0A2G8EIK3_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2G8C3Z3\|A0A2G8C3Z3_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A285J8N9\|A0A285J8N9_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|E0LVH6\|E0LVH6_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A2J9E917\|A0A2J9E917_9GAMM | | E. GKT | T. CS | LS | RL | RR |
| tr\|I3DI62\|I3DI62_9PAST | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0H3DTH0\|A0A0H3DTH0_EDWTF | | E. GKT | T. CS | LS | RL | RR |
| tr\|A0A0U5L641\|A0A0U5L641_9GAMM | | E. GKT | T. CS | LS | RL | RR |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------|--------|-------|----|-----|-----|---|----|------|------|------|------|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| tr\|A0A2N5EAD2\|A0A2N5EAD2_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | CT | KI | AL | G | H | R | DD | M | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A1X1MR97\|A0A1X1MR97_9VIBR | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RN | A | KEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A0U4V2L4\|A0A0U4V2L4_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|D2TAQ3\|D2TAQ3_ERWP6 | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | SEL | G | C | S | KI | AL | G | H | R | DD | I | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A1H7QGZ9\|A0A1H7QGZ9_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A1V3ITW9\|A0A1V3ITW9_9PAST | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A1E5BFJ6\|A0A1E5BFJ6_9VIBR | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A1J5KWL8\|A0A1J5KWL8_9VIBR | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A2S0UY9\|A0A2S0UY9_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . KA | A | KAL | G | A | T | KI | AL | G | H | R | DD | M | V | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A2T3I6F0\|A0A2T3I6F0_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A1V3I034\|A0A1V3I034_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| sp\|A1SWS4\|TTCA_PSYIN | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | I | L | A | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A066RUR5\|A0A066RUR5_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A090IGU5\|A0A090IGU5_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . NA | A | VEL | R | A | T | KI | AL | G | H | R | DD | I | V | E | T | LF | LN | M | F | Y | G | A | K | M | K | T | M | P | P | K | L | |
| tr\|A0A2N1A2J9\|A0A2N1A2J9_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | M | L | A | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|M4U6L5\|M4U6L5_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEV | G | A | T | KI | AL | G | H | R | DD | M | L | A | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A2T4IDK9\|A0A2T4IDK9_9RHO | | A. GKT | T. CS | LS | SRL | RRG | I | Y | . RV | A | E | I | G | A | T | R | I | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L |
| tr\|A0A290ZQX4\|A0A290ZQX4_9RHO | | E. GKT | T. CS | LS | SRL | RRG | I | Y | . RT | A | TEV | G | A | T | R | I | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | |
| sp\|A1K2P7\|TTCA_AZOSB | | E. GKT | T. CS | LS | SRL | RRG | I | Y | . RT | A | E | I | G | A | T | R | I | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L |
| tr\|A0A1E5C9L7\|A0A1E5C9L7_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|D0TAC9\|D0TAC9_GRIHO | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A2X1V8W5\|A0A2X1V8W5_MORMO | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|V5FDB5\|V5FDB5_9VIBR | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | NEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A2N7DID8\|A0A2N7DID8_9VIBR | | P. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | E | I | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A1Z9YRK8\|A0A1Z9YRK8_9ALTE | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A1H3QM02\|A0A1H3QM02_9PROT | | E. GKT | T. CS | LS | SRL | RRG | I | Y | . RV | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A1H7TXX2\|A0A1H7TXX2_9PAST | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|C0B433\|C0B433_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A1V3K8E7\|A0A1V3K8E7_9PAST | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A0M0M226\|A0A0M0M226_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | G | A | T | KI | AL | G | H | R | DD | M | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A0G3CN87\|A0A0G3CN87_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | SEL | G | A | T | KI | AL | G | H | R | DD | I | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A085HJV6\|A0A085HJV6_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|S9ZRS6\|S9ZRS6_9RHO | | A. GKT | T. CS | LS | SRL | RRG | I | Y | . RA | A | E | I | G | A | S | R | I | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L |
| tr\|A0A1Y0CWR3\|A0A1Y0CWR3_9GAMM | | A. GKT | T. CA | LS | SRL | RR | A | I | LY | . RT | A | A | E | I | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L |
| sp\|Q7N3Y7\|TTCA_PHOLL | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A2S7JNG9\|A0A2S7JNG9_9BURK | | E. GKT | M. CS | LS | SRL | RRG | I | LY | . RV | A | GEL | G | C | N | KI | AL | G | H | R | DD | I | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A2M6V2D8\|A0A2M6V2D8_9BURK | | E. GKT | M. CS | LS | SRL | RRG | I | LY | . RV | A | GEL | G | C | N | KI | AL | G | H | R | DD | I | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A2G1BBN6\|A0A2G1BBN6_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | NEL | G | A | T | KI | AL | G | H | R | DD | M | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A1D2U9X7\|A0A1D2U9X7_9BURK | | E. GKT | T. CS | V | S | R | L | RR | A | I | LY | . RV | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | V | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L |
| tr\|A0A081NFN6\|A0A081NFN6_9GAMM | | E. GKT | T. CA | LS | SRL | RRG | I | LY | . RT | A | TEL | K | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A235CJ05\|A0A235CJ05_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A2S0IK97\|A0A2S0IK97_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . K | T | AKRL | G | A | T | KI | AL | G | H | R | DD | M | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A1G7NVH8\|A0A1G7NVH8_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEL | K | A | T | KI | AL | G | H | R | DD | M | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A2S0R041\|A0A2S0R041_9RHO | | A. GKT | T. CS | LS | SRL | RRG | I | Y | . RV | A | E | I | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | |
| tr\|K8X231\|K8X231_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|L8D9A5\|L8D9A5_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEM | G | A | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A0N0Z7B8\|A0A0N0Z7B8_9GAMM | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | I | L | Q | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | |
| tr\|A0A136A1P4\|A0A136A1P4_9ALTE | | E. GKT | T. CS | LS | SRL | RR | A | I | LY | . RT | A | TEL | G | A | T | KI | AL | G | H | R | DD | M | L | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | |
| tr\|A0A2L0PJ66\|A0A2L0PJ66_VITS1 | | E. GKT | T. CA | LS | SRL | RRG | I | LY | . RV | A | KEL | G | C | T | KI | AL | G | H | R | DD | I | E | T | LF | LN | M | F | Y | G | K | L | K | G | M | P | P | K | L | | | |
| tr\|A0A2D5T2E5\|A0A2D5T2E5_PSEAS | | E. GKT | T. CS | LS | SRL | RRG | I | LY | . RT | A | KEM | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------|----|----|----|------------|-----|------|-------|-------------|------------|--------|------|------|------|-----|------|-----|-----|
| tr\|A0A257D8X1\|A0A257D8X1_9BURK | | E. | GK | TT | CGLCSRLRRG | ILY | .RV | AGEL | GATKIALGHH | DDIVQ | TLF | MNMF | FGSK | MKG | MP | PKL | | |
| tr\|A0A2S5T0L8\|A0A2S5T0L8_9BURK | | E. | GK | TM | CSLCSRLRRG | VLY | .RV | ASEL | GATKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKL | | |
| tr\|A0A0G3EQ23\|A0A0G3EQ23_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | AGEL | GATKIALGHH | DDILET | TLF | LNMF | FGSK | FKG | MP | PKL | | |
| tr\|A0A2N2TCB9\|A0A2N2TCB9_9PROT | | E. | GK | TL | CSLCSRLRRG | ILY | .RV | AGEL | GATKIALGHH | DDILT | TL | LNMF | FGAK | LKG | MP | AKL | | |
| tr\|A0A0Q4NX11\|A0A0Q4NX11_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDILET | TLF | LNMF | FGSK | LKG | MP | AKL | | |
| tr\|IOHLE1\|IOHLE1_RUBGI | | E. | GK | TM | CSLCSRLRRG | VLY | .RV | ASEI | GATKIALGHH | DDMVV | TL | MNMF | FGSR | MKG | MP | PKL | | |
| tr\|A0A0C2BG76\|A0A0C2BG76_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDILET | TLF | LNMF | FGAK | VKG | MP | PKL | | |
| tr\|A0A085FQK3\|A0A085FQK3_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | ADEL | GNKIALGHH | DDILET | TLF | LNMF | FGSK | LKG | MP | AKL | | |
| tr\|A0A0R0MBG2\|A0A0R0MBG2_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .SV | ARQLK | GNKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKL | | |
| tr\|A0A2P5K8F8\|A0A2P5K8F8_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | AGEL | GATKIALGHH | DDILT | QTL | VL | LNMF | FGSK | LKG | MP | PKL | |
| tr\|A0A0Q6LK70\|A0A0Q6LK70_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | AGEL | GATKVALGHH | DDMLQ | TLF | MNMF | FGSR | LKG | MP | PKL | | |
| tr\|A0A1Y2Q832\|A0A1Y2Q832_9BURK | | E. | GK | TL | CSLCSRLRRG | ILY | .RV | ADEL | GNRIALGHH | DDILT | QTL | TL | LNMF | FGAK | LKG | MP | PKL | |
| tr\|A0A0L6TAQ8\|A0A0L6TAQ8_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | ASEL | GATKIALGHH | DDMLQ | TLF | MNMF | FGSK | MKG | MP | PKL | | |
| tr\|A0A2U1DUA6\|A0A2U1DUA6_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | ADEL | GCTKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKV | | |
| tr\|A0A1Y0ES54\|A0A1Y0ES54_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .TV | ARRL | GNKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKL | | |
| tr\|A0A060NJB1\|A0A060NJB1_9BURK | | E. | GK | TL | CSLCSRLRRG | ILY | .RV | ADEL | GNKIALGHH | DDILT | QTL | TL | LNMF | FGAK | LKG | MP | AKL | |
| tr\|A0A2M8EE54\|A0A2M8EE54_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | ADEL | KITKIALGHH | DDMLH | TLF | LNMF | FGAK | LKG | MP | PKL | | |
| tr\|A0A221KEA4\|A0A221KEA4_VITFI | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | ADEL | GCTKIALGHH | DDMVV | TL | MNMF | FGSR | MKG | MP | PKL | | |
| tr\|A0A1S8FRQ0\|A0A1S8FRQ0_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDILT | QTL | TL | LNMF | FGSK | MKS | MP | PKL | |
| tr\|A0A0Q4GYK6\|A0A0Q4GYK6_9BURK | | E. | GK | TT | CGLCSRLRRG | ILY | .RV | ADEL | GATKVALGHH | DDMLQ | TLF | LNMF | FGSK | LKS | MP | PKL | | |
| tr\|A0A016XGF4\|A0A016XGF4_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | ADEL | KNKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKL | | |
| tr\|A0A2W5QR70\|A0A2W5QR70_VARPD | | E. | GK | TT | CGLCSRLRRG | ILY | .RV | ADEL | GATKVALGHH | DDMLQ | TLF | LNMF | FGAA | LKS | MP | PKL | | |
| tr\|A0A258NZQ2\|A0A258NZQ2_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDMLQ | TLF | LNMF | FGAS | RKG | MP | PKL | | |
| tr\|A0A2R4F9B5\|A0A2R4F9B5_9BURK | | E. | GK | TT | CGLCSRLRRG | ILY | .RV | ADEL | GCTKIALGHH | DDILT | QTL | TL | LNMF | FGSK | MKA | MP | PKL | |
| tr\|A0A1Q3R2G4\|A0A1Q3R2G4_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .SV | ARRL | KNKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKL | | |
| tr\|A0A0Q8T160\|A0A0Q8T160_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | ADEL | GCTKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKV | | |
| tr\|A0A2N2RMC2\|A0A2N2RMC2_9PROT | | P. | GK | TM | CSLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKL | | |
| tr\|A0A2S5SVE7\|A0A2S5SVE7_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | AGEL | GATKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKL | | |
| tr\|A0A1H9S6W8\|A0A1H9S6W8_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RL | ADEL | GCRKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKV | | |
| tr\|A0A1Q8YG82\|A0A1Q8YG82_9BURK | | E. | GK | TM | CSLCSRLRRG | ILY | .RV | ADEL | KITKIALGHH | DDMLH | TLF | LNMF | FGAK | LKG | MP | PKL | | |
| tr\|A0A0K1NE84\|A0A0K1NE84_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .SV | ARRL | GNKIALGHH | DDMLQ | TLF | LNMF | FGSK | LKG | MP | PKL | | |
| tr\|A0A2E2K941\|A0A2E2K941_9GAMM | | E. | GK | TT | CGLCSRLRRG | TLY | .GFA | EQI | GANKIALGHH | DDMVQ | TLF | LNMF | FGSR | MAA | MP | PKL | | |
| tr\|S6HH18\|S6HH18_9GAMM | | E. | GK | KT | CGLCSRLRRG | TLY | .SFA | EDI | GNKIALGHH | DDIET | TLF | LNMF | FGNR | LAM | MP | PKL | | |
| tr\|S6GEA2\|S6GEA2_9GAMM | | E. | GK | KT | CGLCSRLRRG | TLY | .AF | AEE | INANKIALGHH | DDIET | TLF | LNMF | FGNR | LAM | MP | PKL | | |
| tr\|A0A2G6L769\|A0A2G6L769_9GAMM | | D. | GK | TM | CGLCSRLRRG | TLY | .SFA | EED | DANKIALGHH | DDIVET | TLF | LNMF | FGSR | LAS | MP | PKL | | |
| tr\|A0A1Y5D7E5\|A0A1Y5D7E5_9GAMM | | E. | GK | TT | CGLCSRLRRG | TLY | .AF | AED | I | GANKIALGHH | DDIVQ | TMF | LNMF | FGAR | LAS | MP | PKL | |
| tr\|A0A162JZM0\|A0A162JZM0_9GAMM | | E. | GK | TT | CGLCSRLRRG | TLY | .SFA | EDI | KATKIALGHH | DDIVET | TLF | LNMF | FGHS | KAS | MP | PKL | | |
| tr\|I2JK26\|I2JK26_9GAMM | | E. | GK | TT | CGLCSRLRRG | TLY | .AF | AEE | I | GATKIALGHH | DDIVQ | TLF | LNMF | FGSR | LSG | MP | PKL | |
| tr\|A0A1T4LA54\|A0A1T4LA54_9GAMM | | E. | GK | TT | CALCSRLRRG | SLY | .GFA | EED | I | GATKIALGHH | DDIMET | TLF | LNMF | FGT | LKS | MP | PKL | |
| tr\|A0A2P6AQM6\|A0A2P6AQM6_9GAMM | | E. | GK | TY | CAVCSRLRRG | NLY | .AF | AQEI | GATKVALGHH | DDIMAT | TLF | LNLF | FGH | AK | MP | PKL | | |
| tr\|A0A2D6C0C1\|A0A2D6C0C1_9PROT | | A. | GK | VA | CSLCSRLRRG | VLY | .RT | ADEL | GATKIALGHH | DDMVET | TLF | LNLF | FGH | SAR | LKG | MP | PKL | |
| tr\|A0A2E6MC67\|A0A2E6MC67_9GAMM | | E. | GK | TT | CPVCSRLRRG | ILY | .SHA | QKI | GATKIALGHH | DDVVET | LM | LNMF | FGAK | LKA | MP | AKL | | |
| tr\|A0A0Q9YQ77\|A0A0Q9YQ77_9COXI | | E. | NH | TY | CSLCSRLRRG | NLY | .RY | AKE | HF | GNKIALGHH | DDILI | HS | LMG | FI | YNG | EVRS | MP | PKL |
| tr\|R4YM77\|R4YM77_OLEAN | | E. | GK | TT | CSLCSRLRRG | SLY | .GY | AESI | GANKIALGHH | DDIVET | TLF | LNMF | FGAK | LKS | MP | PKL | | |
| tr\|A0A2D8IV68\|A0A2D8IV68_9GAMM | | E. | GK | TT | CGICSLRRRG | SLY | .GFA | EED | I | GATKIALGHH | DDIVET | TLF | LNMF | FGT | LKA | MP | PKL | |
| tr\|A0A0M3BW87\|A0A0M3BW87_ACIP1 | | E. | GK | TY | CAVCSRLRRG | SLY | .GFA | AQEI | GATKVALGHH | DDIIAT | TLF | LNLF | FGH | G | LKA | MP | PKL | |
| tr\|A0A25SGDH7\|A0A25SGDH7_9GAMM | | E. | GK | TY | CSLCSRLRRG | TLY | .GFA | QOI | GATKIALGHH | DDIET | TLF | LNMF | FGSK | LKS | MP | PKL | | |
| tr\|A0A2R4IZ02\|A0A2R4IZ02_9GAMM | | E. | GK | TT | CGLCSRLRRG | SLY | .GFA | EED | I | GATKIALGHH | DDILET | TLF | LNMF | FGSK | LKT | MP | PKL | |
| tr\|Q1N675\|Q1N675_9GAMM | | E. | GK | TT | CGLCSRLRRG | TLY | .GFA | EED | I | GANKVALGHH | DDIVET | TMF | LNMF | FGAR | LAM | MP | PKL | |
| tr\|A0A2V1MRG8\|A0A2V1MRG8_9GAMM | | E. | GK | TT | CSLCSRLRRG | TLY | .GFA | QRI | GATKIALGHH | DDIET | TLF | LNMF | FGSK | MKA | MP | PKL | | |
| tr\|A0A2G6JPB4\|A0A2G6JPB4_NEPCE | | E. | GK | TT | CALCSRLRRG | SLY | .GFA | EED | I | GANKIALGHH | DDILET | TLF | LNMF | FGSK | MKS | MP | PKL | |
| tr\|A0A1D8RZY8\|A0A1D8RZY8_9GAMM | | E. | GK | TT | CSLCSRLRRG | ILY | .KV | AAB | I | GATKIALGHH | DDMVET | LM | LNMF | FGSK | LKS | MP | AKL | |
| tr\|A0A2S6H7K9\|A0A2S6H7K9_9GAMM | | E. | GK | NT | CGLCSRLRRG | TLY | .GY | AANNV | TKIALGHH | DDILET | TLF | LNFI | FG | G | LKA | MP | PKL | |
| tr\|A0A1Y6EY14\|A0A1Y6EY14_9GAMM | | E. | GK | TT | CALCSRLRRG | ILY | .SHA | QKI | GATKIALGHH | DDIMET | TLF | LNMF | FGSK | LKS | MP | PKL | | |
| tr\|A0A1G9S8A4\|A0A1G9S8A4_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDIVAT | TL | LNLF | FG | G | MKA | MP | PKL | |
| tr\|A0A2T5IWQ3\|A0A2T5IWQ3_9LACT | | E. | GK | TY | CAVCSRLRRG | SLY | .GFA | KEI | GATKVALGHH | DDIMAT | TLF | LNLF | FGH | G | LKA | MP | PKL | |
| tr\|A0A0Q6BL24\|A0A0Q6BL24_9PROT | | E. | GK | TT | CSLCSRLRRG | ILY | .TT | AQQL | GATKIALGHH | DDIVQ | TLF | LNMF | FGAK | MKA | MP | PKL | | |
| tr\|A0A1M4ZGN9\|A0A1M4ZGN9_9GAMM | | E. | GK | TL | CSLCSRLRRG | ALY | .SFA | ARE | FTKIALGHH | DDIVAT | TLF | LNLF | FGH | AK | LSG | MP | PKL | |
| tr\|A0A1G6A7Y4\|A0A1G6A7Y4_9GAMM | | A. | GK | TT | CSLCSRLRRG | ILY | .RV | ASEL | GATKIALGHH | DDILLET | LM | LNMF | FGSK | MKS | MP | PKL | | |
| tr\|A0A1H2UJU7\|A0A1H2UJU7_9ALTE | | E. | GK | TT | CGLCSRLRRG | ILY | .NF | AEEH | VTKIALGHH | DDILET | TLF | LNMF | FGSK | LKT | MP | PVL | | |
| tr\|A0A255QCR2\|A0A255QCR2_9BURK | | E. | GK | TT | CSLCSRLRRG | ILY | .KV | ADEL | KNKIALGHH | DDIVAT | LM | LNMF | FGSR | MKA | MP | PKL | | |
| tr\|A0A1I7GPK9\|A0A1I7GPK9_9BURK | | E. | GK | TT | CGLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDIVQ | TL | LNMF | FGSR | MKA | MP | PKL | | |
| tr\|A0A2E3CTL6\|A0A2E3CTL6_9GAMM | | E. | GK | TT | CGLCSRLRRG | TLY | .SFA | EED | I | GATKIALGHH | DDIVET | TLF | LNMF | FGSR | LSG | MP | PKL | |
| tr\|A0A2G2GZK4\|A0A2G2GZK4_9GAMM | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDIMLET | LM | LNMF | FGSK | MKS | MP | PKL | | |
| tr\|D4ZKD3\|D4ZKD3_SHEVD | | E. | GK | KT | CSLCSRLRRG | TLY | .GFA | QOI | GATKIALGHH | DDIET | TMF | LNMF | FGAK | QKA | MP | PKL | | |
| tr\|A0A2E4Z906\|A0A2E4Z906_9GAMM | | A. | GK | TT | CSLCSRLRRG | ILY | .RV | ADEL | GATKIALGHH | DDMVET | LM | LNMF | FGSK | MKS | MP | AKL | | |
| tr\|A0A2E2XIK0\|A0A2E2XIK0_9GAMM | | E. | GK | KT | CGLCSRLRRG | TLY | .AF | AEKI | GATKIALGHH | DDIVET | TLF | LNMF | FGSR | LKA | MP | PKL | | |
| tr\|A0A160N2I8\|A0A160N2I8_9GAMM | | A. | GK | TM | CSLCSRLRRG | ALY | .SFA | AEN | ITKIALGHH | DDIIAT | TLF | LNLF | FGH | AK | LKA | MP | PKL | |
| tr\|A0A1E4L069\|A0A1E4L069_9GAMM | | E. | GK | TM | CSLCSRLRRG | ALY | .TY | AEEQ | FTKIALGHH | DDLLAT | TLF | MNLF | FGH | AK | LSG | MP | PKL | |
| tr\|A0A2T4D6Z5\|A0A2T4D6Z5_9GAMM | | E. | GK | TT | CSLCSRLRRG | ILY | .RV | ANEL | GATKIALGHH | DDIMLET | TL | LNMF | FGT | MKS | MP | PKL | | |
| tr\|A0A085U7Q6\|A0A085U7Q6_YERRU | | A. | GK | TT | CGLCSRLRRG | TLY | .SFA | EKI | GATKIALGHH | DDIVET | TLF | LNFI | FGH | AK | LKA | MP | PKL | |
| sp\|Q47ZU5\|TTCA_COLP3 | | E. | GK | TT | CSLCSRLRRG | ALY | .KAA | KKI | GATKIALGHH | DDIMET | TL | LNMF | FGSK | MKA | MP | AKL | | |
| tr\|A0A1IOAQ21\|A0A1IOAQ21_9PROT | | E. | GK | TT | CSLCSRLRRG | VLY | .RV | AGEL | GATKIALGHH | DDILET | TLF | LNLF | FGH | G | LKT | MP | PKL | |
| tr\|A0A1H4G6R6\|A0A1H4G6R6_9BURK | | E. | GK | TT | CSLCSRLRRG | VLY | .RT | ADEL | GANKIALGHH | DDIVET | TLF | LNLF | FGG | MKA | MP | PKL | | |
| tr\|A0A2K9LR78\|A0A2K9LR78_9GAMM | | E. | GK | TT | CGLCSRLRRG | TLY | .TFA | EDI | KATKIALGHH | DDIVET | TMF | LNMF | FGSR | LAS | MP | PKL | | |
| tr\|A0A2M7LUW5\|A0A2M7LUW5_9GAMM | | E. | GK | TT | CGLCSRLRRG | TLY | .GFA | QHI | GATKIALGHH | DDIET | TLF | LNMF | FGAK | QKA | MP | PKL | | |
| tr\|A0A246KYX3\|A0A246KYX3_9GAMM | | E. | GK | TM | CSLCSRLRRG | ALY | .HY | AETH | FTKIALGHH | DDRVAT | TLF | MNLF | FGH | AK | LAS | MP | PKL | |
| tr\|A0A2D8RAF4\|A0A2D8RAF4_9GAMM | | E. | GK | TT | CGLCSRLRRG | ILY | .NF | AQEN | GNKIALGHH | DDILET | TLF | LNMF | FGAK | LAS | MP | PKL | | |
| tr\|A0A0R0DYI3\|A0A0R0DYI3_9GAMM | | E. | GK | TM | CSLCSRMRRG | ALY | .SY | AEN | FTKIALGHH | DDMVAT | TF | MNLF | FGH | AK | LSG | MP | PKL | |
| tr\|A0A0ROATI2\|A0A0ROATI2_STEMA | | E. | GK | TM | CSLCSRMRRG | ALY | .NY | AEQN | FTKIALGHH | DDMVAT | TF | MNLF | FGH | AK | LSG | MP | PKL | |
| tr\|A0A2E6LUI9\|A0A2E6LUI9_9GAMM | | E. | GK | TM | CSLCSRLRRG | ILY | .KAA | TAL | GNKIALGHH | DDIET | TMF | LNMF | FGSK | LKA | MP | AKL | | |
| tr\|A0A094LT70\|A0A094LT70_9GAMM | | E. | GK | TT | CSLCSRLRRG | TLY | .GFA | HRI | GATKIALGHH | DDIET | TLF | LNMF | FGSK | MKA | MP | PKL | | |
| tr\|A0A1I6YH43\|A0A1I6YH43_9GAMM | | E. | GK | TT | CSLCSRLRRG | | | | | | | | | | | | | |

tr|A0A1W9JDH2|A0A1W9JDH2_9PROT E.GKTT.CSLCSRLRRGIIY.TTAKELGADKIALGHHRRDDIVETLFLNLFFGAKLKKAMPKKL
tr|A0A1M5BF43|A0A1M5BF43_9BURK E.GKTT.CGLCSRLRRRAILY.TVADQLGCTKIALGHHRRDDILQTLFLNMFYGRMKGMPPKKL
tr|A0A2E7TF27|A0A2E7TF27_9GAMM E.GKTM.CSLCSRLRRGIIY.KYAKQNGMNKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A4BC14|A4BC14_9GAMM E.GKTT.CGICISRLRRSTIY.AFADQIGANKVALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2V1GX35|A0A2V1GX35_9FLAO E.GKTT.CSLCSRLRRGIIY.GFAEAHKIDKIALGHHRRDDMIETLFLNLFYGGKLLKAMPKKL
tr|A0A142BEY8|A0A142BEY8_9GAMM E.GKTT.CGLCSRLRRRGIIY.SFAEEIGATKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A0J8GW65|A0A0J8GW65_9ALTE E.GKTT.CALCSRLRRGIIY.KTANRLGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A1M5FZ26|A0A1M5FZ26_9GAMM E.GKTT.CGLCSRLRRGIIY.GFAEEIGATKVALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A257U9D9|A0A257U9D9_9PROT L.GKTT.CSLCSRLRRRGIIY.RTAKALKA TKIVLGHHRRDDMLQTLFLNLFYGGKLLKAMPKKL
tr|A0A2E9D1E6|A0A2E9D1E6_9GAMM E.GRTT.CGLCSRLRRGIIY.ACADTGC TKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A126NMX7|A0A126NMX7_9GAMM E.GKTM.CSLCSRLRRRGIIY.TYAEANGFTKIALGHHRRDDMVATFFMNLFFHHSKISGMPKKL
tr|K6ZRA0|K6ZRA0_9ALTE E.GKTT.CSLCSRLRRGIIY.TNAIKLGVTKIALGHHRRDDMLTFLFLNMFHNGRLKSMPPKKL
tr|A0A2N0WY52|A0A2N0WY52_9GAMM E.GKTT.CSLCSRLRRGIIY.RTAKELGASKIALGHHRRDDMLATMMNLFFFGGKLLKAMPKKL
tr|A0A1D2QPG0|A0A1D2QPG0_9GAMM K.GKTT.CGLCSRLRRGIIY.GFAEEIGATKVALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A0Q9ESH6|A0A0Q9ESH6_9GAMM E.GKTM.CSLCSRLRRRGIIY.TYAEQQGFTKIALGHHRRDDLVATFFLNLFFFHAKLSGMPKKL
tr|A0A1V4CCB4|A0A1V4CCB4_9BURK P.GKTM.CSLCSRLRRGIIY.RVARELGATKIALGHHRRDDMLQTLFLNMFYGGKLLKAMPKKL
tr|A0A1G8SDV5|A0A1G8SDV5_9GAMM E.GKTT.CSLCSRLRRGIIY.GFAQRIGATKIALGHHRRDDMVETLFLNMFYGGKLLKAMPKKL
tr|A0A0A2XGJ5|A0A0A2XGJ5_9PAST E.GKTT.CSLCSRLRRGIIY.RTAKELRATKIALGHHRRDDMLTFLFLNMFYGGKLLKAMPKKL
tr|A0A1N6Q9N0|A0A1N6Q9N0_9GAMM E.GKTT.CALCSRLRRGIIY.GFAEEIGANKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2I9CXW9|A0A2I9CXW9_9DEIO E.GKTT.CSLCSRLRRGIIY.RHAREIGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A1Z8A689|A0A1Z8A689_9GAMM E.GKTT.CALCSRLRRGIIY.AFAEEIGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|K4KEMO|K4KEMO_STMAS E.GKTT.CGLCSRLRRGIIY.SFAEKIGATKIALGHHRRDDMVETLFLNMFYGGKLLKAMPKKL
tr|A0A2E0HL83|A0A2E0HL83_9GAMM E.GATT.CGLCSRLRRGIIY.SFAEEINASKIALGHHRRDDMVETLFLNMFYGGKLLKAMPKKL
tr|A0A2E6UBI3|A0A2E6UBI3_9GAMM E.GKTT.CSLCSRLRRGIIY.KTAKRLGATKIALGHHRRDDMIETLFLNMFYGGKLLKAMPKKL
tr|A0A2T0VN17|A0A2T0VN17_9GAMM E.GKTT.CALCSRLRRGIIY.GFAEEIGATKVALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|C7RA21|C7RA21_KANKD E.GKTT.CSLCSRLRRGIIY.SWAEQNGITKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A0A2WH96|A0A0A2WH96_9GAMM E.GKTL.CSLCSRLRRGIIY.AHAEEAGFTKIALGHHRRDDLVATFFLNLFFFHAKLAGMPKKL
tr|A0A1B3BC99|A0A1B3BC99_9GAMM E.GKTT.CGLCSRLRRGIIY.GWAERNITKIALGHHRRDDMIETLFLNMFYGGKLLKAMPKKL
tr|A0A2S0VTT1|A0A2S0VTT1_9ALTE E.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A1M7HXG8|A0A1M7HXG8_9GAMM E.GKTT.CALCSRLRRGIIY.GFAEEIGATKVALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A1H4FYD6|A0A1H4FYD6_ALKAM E.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDMLTFLFLNMFYGGKLLKAMPKKL
tr|A0A1N6RTY4|A0A1N6RTY4_9GAMM E.GKTM.CSLCSRLRRGIIY.TYAEENGFTKIALGHHRRDDLVNFFLNLFFFHAKLSGMPKKL
tr|E6WX66|E6WX66_PSEUU E.GKTM.CSLCSRLRRRGIIY.SYAAEHGFTKIALGHHRRDDMVATFFMNLFFHAKISGMPKKL
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tr|A0A0Q8EDG6|A0A0Q8EDG6_9GAMM E.GKTM.CSLCSRLRRRGIIY.SYAEQNGFTKIALGHHRRDDLVATFFLNMFFHAKLSGMPKKL
tr|A0A2E7ZPW4|A0A2E7ZPW4_9DELT P.GKTT.CSLCSRLRRGIIY.SAAQELGCTKVALGHHRRDDIATLFLNFFFCCGLKAMPKKL
tr|A0A1W1V8N1|A0A1W1V8N1_9DEIO E.GKTT.CALCSRLRRGIIY.SHAREIGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2D9SQE6|A0A2D9SQE6_9GAMM Q.GKTY.CGWCSSRRRGIIY.KFAKRGYNKIALGHHRRDDIETLFLNLFHAGKLLKAMPKKL
tr|A0A2G2JE37|A0A2G2JE37_9GAMM E.GKTT.CGLCSRLRRGIIY.GYAESIGANKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|H3ZAK4|H3ZAK4_9ALTE E.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDMLTFLFLNMFYGGKLLKAMPKKL
tr|A0A258V319|A0A258V319_9PROT E.GKTT.CSLCSRLRRGIIY.TTAKQLGATKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A1E7Q6F9|A0A1E7Q6F9_9GAMM E.GKTT.CSLCSRLRRGIIY.NTAKKLGATKIALGHHRRDDMLTFLFLNMFYGGKLLKAMPKKL
tr|A0A1W9KKP7|A0A1W9KKP7_9PROT E.GKTT.CSLCSRLRRGIIY.RVASELGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|K2JNE8|K2JNE8_9GAMM E.GKTT.CSLCSRLRRGIIY.RTATELGCTKVALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2A5HUD4|A0A2A5HUD4_9ALTE E.GKTT.CGLCSRLRRGIIY.GFAEEIGATKIALGHHRRDDAETLFLNMFYAGRLKAMPKKL
tr|A0A2U2ADC0|A0A2U2ADC0_9GAMM E.GKTM.CSLCSRLRRGIIY.TYAKENNGFNKIALGHHRRDDIVETLFLNMFYGGTLMKAMPKKL
tr|A0A2G6EIJ4|A0A2G6EIJ4_9GAMM A.GKTM.CSLCSRLRRGIIY.RCAEENGNKIALGHHRRDDIETLFLNFFFGLNLTMTMPKKL
tr|A4CAS6|A4CAS6_9GAMM E.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDMIETLFLNMFYGGKLLKAMPKKL
tr|A0A2R5F7M4|A0A2R5F7M4_9PROT E.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDIETLFLNMFYGGTLMKAMPKKL
tr|M1FGK9|M1FGK9_9ALTE A.GKTT.CGLCSRLRRGIIY.AFAEANGVTKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A1D2X618|A0A1D2X618_9GAMM E.GKTT.CGLCSRLRRGIIY.AFAEEIGATKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A2E9JUF8|A0A2E9JUF8_9GAMM E.GKTS.CGLCSRLRRGIIY.AFAEKIGADKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A081KEH3|A0A081KEH3_9GAMM E.GKTT.CGLCSRLRRGIIY.AFAEDIGATKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A1N7KE69|A0A1N7KE69_9GAMM E.GKTT.CALCSRLRRGIIY.GFAEEIGANKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A0U2ZN38|A0A0U2ZN38_9ALTE E.GKTT.CSLCSRLRRGIIY.RTATELRATKIALGHHRRDDMLTFLFLNMFYGGKLLKAMPKKL
tr|A0A2S7UWA8|A0A2S7UWA8_9GAMM E.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDIETLFLNMFHGGKLLKAMPKKL
tr|A0A0E2Z2P9|A0A0E2Z2P9_9GAMM E.GKTT.CSLCSRLRRGIIY.GTAEELGATKIALGHHRRDDIETLFLNMFHGGTLMKAMPKKL
tr|A0A290TR64|A0A290TR64_PSE07 E.GKTT.CGLCSRLRRGIIY.SFAEKIGATKIALGHHRRDDIVETLFLNMFYAGRLKAMPKKL
tr|A0A172YKH4|A0A172YKH4_9GAMM E.GKTT.CGLCSRLRRGIIY.GFAEEIGATKIALGHHRRDDIETLFLNMFYAGRLKAMPKKL
tr|A0A2N2SFH7|A0A2N2SFH7_9PROT E.GATT.CSLCSRLRRGIIY.TTAKKLGANKIALGHHRRDDIVETLFLNMFYAGRLKAMPKKL
tr|A0A2N2RWE8|A0A2N2RWE8_9PROT E.GKTT.CSLCSRLRRGIIY.TTAKKLGANKIALGHHRRDDIVETLFLNLFHAGKLLKAMPKKL
tr|A0A0S8AA06|A0A0S8AA06_9GAMM A.GKTM.CSLCSRLRRGIIY.RVANELGATKIALGHHRRDDIVETLFLNLFHAGKLLKAMPKKL
tr|A0A1H9YSB8|A0A1H9YSB8_9ALTE E.GKTT.CGLCSRLRRGIIY.NFAEEHGITKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|K2LB06|K2LB06_9GAMM A.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDMLTFLFLNMFYGGKLLKAMPKKL
tr|A0A1I0HCR0|A0A1I0HCR0_THASX E.GKTT.CSLCSRLRRRAILY.KTAKQIGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2A5CH30|A0A2A5CH30_9GAMM E.GKTT.CALCSRLRRGIIY.AFAEEIGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2N2VG94|A0A2N2VG94_9PROT E.GKTT.CSLCSRLRRGIIY.RTAEQELGANKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A0F4Q4B8|A0A0F4Q4B8_9GAMM E.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A246HHM2|A0A246HHM2_STEMA E.GRTM.CSLCSRLRRRGIIY.RHAAEHGFTKIALGHHRRDDSVATFFLNLFFHAKLSAMPKKL
tr|A0A2K1Q139|A0A2K1Q139_9GAMM E.GKTM.CSLCSRLRRGIIY.SYAEQHGFTKIALGHHRRDDMVNFFLNLFFHAKLSAMPKKL
tr|A0A2D8KYB7|A0A2D8KYB7_9GAMM E.GKTM.CGLCSRLRRGIIY.DIASREGMTKIALGHHRRDDIVETLFLNMFYAGRLKAMPKKL
tr|A0A238Z6E0|A0A238Z6E0_9PROT E.GKTT.CSLCSRLRRGIIY.RTAEQELGANKIALGHHRRDDIVETLFLNMFYAGRLKAMPKKL
tr|K6Z7L1|K6Z7L1_9ALTE E.GKTT.CALCSRLRRGIIY.NTARLNGATKIALGHHRRDDMLTFLFLNMFNGQLKSMPPKKL
tr|A0A1Q5U4V8|A0A1Q5U4V8_9GAMM E.GKTT.CGLCSRLRRGIIY.SFAEKIGATKIALGHHRRDDIVETLFLNMFHAGRLKAMPKKL
tr|A0A1D2S491|A0A1D2S491_9BURK E.GKTT.CSVCSRLRRRAILY.RVASELGATKVALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A1E7PZD4|A0A1E7PZD4_9ALTE A.GKTT.CSLCSRLRRGIIY.NFAEQHGVTKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|I3ICA1|I3ICA1_9GAMM E.GKTT.CGLCSRLRRGIIY.GFADEIGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A244CVN1|A0A244CVN1_9GAMM E.GKTT.CSLCSRLRRGIIY.RTATEIGATKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|A0A291THA3|A0A291THA3_9GAMM E.GKTT.CALCSRLRRGIIY.RTAEELGCTKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2I6S9K3|A0A2I6S9K3_9RHOO E.GKTT.CSLCSRLRRGIIY.RTAREIGATRIALGHHRRDDIETLFLNLFHGGRTKAMPKKL
tr|A0A2M7Y3H3|A0A2M7Y3H3_9RHOO E.GRIA.CPLCSRLRRGIIY.RVAGELGATKIALGHHRRDDIETLFLNLFHGGSLKAMPKKL
tr|A0A2G2IH67|A0A2G2IH67_COLSX E.NRRT.CGLCSRLRRGIIY.SFAEKIGATKIALGHHRRDDIVETLFLNMFYAGRLKAMPKKL
tr|A0A261U141|A0A261U141_9BORD E.GKTT.CSLCSRLRRGIIY.RTAKELGANKIALGHHRRDDIVETLFLNLFHGGKLLKAMPKKL
sp|C5BRQ7|TTCA_TERTT E.GKTT.CGLCSRLRRGIIY.GFAEKIGATKIALGHHRRDDIVETLFLNLFYAGRLKAMPKKL
tr|A0A1N6F753|A0A1N6F753_9PROT E.GKTT.CSLCSRLRRGIIY.RVASELGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2E2BJH1|A0A2E2BJH1_9GAMM E.GKTT.CALCSRLRRGIIY.GFAEEIGATKVALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A2W5I668|A0A2W5I668_9GAMM E.GKTL.CSLCSRLRRRGIIY.AYAAEHGFTKIALGHHRRDDMVATFFMNLFFHAKLSAMPKKL
sp|C4L8F7|TTCA_TOLAT E.GKTT.CSLCSRLRRGIIY.RTASELGATKIALGHHRRDDIETLFLNMFYAGRLKAMPKKL
tr|B8KS81|B8KS81_9GAMM E.GKTT.CGLCSRLRRGIIY.GFAEQIGATKIALGHHRRDDIVETLFLNMFYGGKLLKAMPKKL
tr|Z5XT64|Z5XT64_9GAMM E.GKTT.CSLCSRLRRGIIY.RTAKELGATKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|A0A0P6YKA9|A0A0P6YKA9_VIBSP E.GKTT.CGLCSRLRRGIIY.SFAEKIGATKIALGHHRRDDIVETLFLNMFYAGRLKAMPKKL
tr|R5E7W5|R5E7W5_9BURK D.NRNL.CSLCSRLRRGIIY.RVAREQKCTKIALGHHRRDDVSTLFLNMFYGGKLLKAMPKKL
tr|A0A2S5KXJ5|A0A2S5KXJ5_9PROT A.GKTT.CALCSRLRRGIIY.RTAKELNCTKVALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|Z9JMS5|Z9JMS5_9GAMM E.GKTL.CALCSRLRRRGIIY.AYAAEQGFTKIALGHHRRDDMVATFFMNLFFHAKLSAMPKKL
tr|A0A2S2E3Y6|A0A2S2E3Y6_9ALTE E.GKTT.CSLCSRLRRGIIY.RTASELGATKIALGHHRRDDMIETLFLNMFHGGTLMKAMPKKL
tr|A0A165SBD0|A0A165SBD0_9GAMM E.GKTT.CGLCSRLRRGIIY.SFAEDIKATKIALGHHRRDDIVETLFLNMFHGGSLKAMPKKL
tr|A0A2M9ECT5|A0A2M9ECT5_9GAMM E.GKTM.CSLCSRLRRGIIY.TYAEAHGFTKIALGHHRRDDLVNFFLNLFFHAKISGMPKKL
tr|A0A1A6KZA3|A0A1A6KZA3_9VIBR E.GKTT.CGLCSRLRRGIIY.SFAEKIGATKIALGHHRRDDIVETLFLNMFHAGRLKAMPKKL
tr|A0A2P6M725|A0A2P6M725_9GAMM E.GKTM.CSLCSRLRRRGIIY.THAKEQGFTKIALGHHRRDDIVATFFMNLFFHAKLATMPKKL
tr|A0A1Z9SXF6|A0A1Z9SXF6_9GAMM E.GKTY.CGLCSRLRRGIIY.NYABETIGANKIALGHHRRDDIETLFLNMFYGGKLLKAMPKKL
tr|K6Y991|K6Y991_9ALTE E.GKTT.CSLCSRLRRGIIY.KTATRLGATKIALGHHRRDDMLTFLFLNMFYGGKLLKAMPKKL
tr|H8L0D3|H8L0D3_FRAAD Q.GKTM.CSLCSRLRRRGIIY.AWAAQNGITKIALGHHRRDDIATLFLNMFYQASLKAMPKKL
tr|A0A2T3L8L6|A0A2T3L8L6_9GAMM E.GKTT.CGLCSRLRRGIIY.SFAEKIGATKIALGHHRRDDMVETLFLNMFYGGKLLKAMPKKL

tr|A0A1V5G325|A0A1V5G325_9PROT...E.GK|T.M|CSLCSRLRRG|S|LY|T|Y|A|E|EQ|G|F|TKIALGHH|R|DDL|LAT|FF|LN|L|F|H|H|A|K|L|S|G|MP|PK|L|
tr|A0A290XB88|A0A290XB88_9GAMM...E.GK|T.M|CSLCSRLRRG|A|LY|S|Y|A|E|EQ|H|G|F|TKIALGHH|R|DDL|VAT|FF|LN|L|F|F|H|A|K|L|S|G|MP|PK|L|
tr|A0A1I2H4G4|A0A1I2H4G4_9GAMM...E.GK|T.M|CSLCSRLRRG|A|LY|A|F|A|K|Q|Q|G|F|TKIALGHH|R|K|DDI|VAT|FF|LN|L|F|F|H|A|K|L|S|G|MP|PK|L|
tr|A0A176H235|A0A176H235_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|E|I|K|A|N|K|I|A|L|G|H|H|K|DDI|VET|MF|LN|L|F|H|G|S|R|L|A|S|MP|PK|L|
tr|A0A2E8YFG2|A0A2E8YFG2_9GAMM...E.GK|T.M|CGLCSRLRRG|G|LY|T|Y|A|K|T|N|G|I|T|R|I|A|L|G|H|H|R|DDI|IET|LF|LN|L|F|H|G|S|R|L|A|S|MP|PK|L|
tr|A0A2D7P2I3|A0A2D7P2I3_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|G|F|A|E|Q|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|F|H|A|K|L|S|G|MP|PK|L|
tr|A0A0P9FV53|A0A0P9FV53_9GAMM...E.GK|T.T|CSLCSRLRRG|T|LY|R|T|A|K|E|M|G|A|T|K|I|A|L|G|H|H|R|DDM|IET|MF|LN|L|F|Y|G|G|K|L|K|G|MP|A|K|L|
tr|C1CXB7|C1CXB7_DEIDV...E.GK|T.T|CALCSRLRRG|I|LY|A|H|A|R|R|I|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|MF|MN|L|F|F|G|A|R|L|K|A|MP|PK|L|
tr|A0A1T4S3B8|A0A1T4S3B8_9GAMM...E.GK|T.M|CSLCSRLRRG|A|LY|T|F|A|E|E|Q|G|F|N|K|I|A|L|G|H|H|R|DDL|VAT|FF|LN|L|F|F|H|A|K|L|S|G|MP|PK|L|
tr|A0A1M5LQA2|A0A1M5LQA2_9GAMM...E.GK|T.M|CSLCSRLRRG|A|LY|S|Y|A|H|D|H|G|Y|T|K|I|A|L|G|H|H|R|DDI|LAT|FF|LN|L|F|F|G|S|L|K|A|MP|PK|L|
tr|H8GP88|H8GP88_METAL...E.GA|T.T|CGLCSRLRRG|I|LY|G|F|A|E|E|H|G|V|T|K|I|A|L|G|H|H|R|DDL|LET|FF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|A0A2D8J379|A0A2D8J379_9ALTE...D.GK|T.T|CGLCSRLRRG|I|LY|D|F|A|V|D|H|G|V|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|H|G|S|L|K|A|MP|PK|L|
tr|A0A1S8CV92|A0A1S8CV92_9GAMM...E.GK|T.F|CAVCSRLRRG|S|LY|G|F|A|E|Q|I|G|A|T|K|V|A|L|G|H|H|R|DDI|MAT|FF|LN|L|F|H|G|S|L|K|A|MP|PK|L|
tr|A0A086D1F6|A0A086D1F6_9GAMM...E.GK|T.T|CALCSRLRRG|S|LY|G|F|A|E|E|I|G|A|T|K|I|A|L|G|H|H|R|E|D|I|ET|LF|LN|L|F|Y|G|G|T|L|K|S|MP|PK|L|
tr|A0A2K8KNB1|A0A2K8KNB1_9GAMM...D.GK|T.T|CGICSLRRRST|LY|A|F|A|D|Q|I|G|A|N|K|V|A|L|G|H|H|R|DDI|IET|LF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
sp|Q9PFT3|TTCA_XYLF...E.GK|T.L|CALCSRLRRG|T|LY|A|Y|A|E|T|Q|G|F|T|K|I|A|L|G|H|H|R|DDM|VAT|FF|MN|L|F|H|H|A|K|L|S|G|MP|PK|L|
tr|A0A2E1NM27|A0A2E1NM27_9GAMM...E.GK|T.T|CGLCSRLRRG|S|LY|G|F|A|V|D|I|G|A|N|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|F|G|G|K|L|K|A|MP|PK|L|
tr|A0A0P7XJ61|A0A0P7XJ61_9GAMM...E.GK|T.T|CSLCSRLRRG|I|LY|K|T|A|K|R|L|G|C|T|K|I|A|L|G|H|H|R|DDM|IET|LF|LN|L|F|Y|G|G|T|K|S|MP|PK|L|
tr|W6M556|W6M556_9GAMM...A.GK|T.T|CGLCSRLRRG|V|LY|S|F|A|E|E|H|G|S|K|I|A|L|G|H|H|R|DDI|IET|LF|LN|L|F|H|G|G|K|L|K|A|MP|PK|L|
tr|A0A2D4SCQ4|A0A2D4SCQ4_9GAMM...E.GK|T.M|CGLCSRLRRG|I|LY|R|Y|A|N|E|H|G|Y|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|H|G|G|R|L|A|S|MP|PK|L|
tr|A0A1X9NHT9|A0A1X9NHT9_9GAMM...E.GK|T.T|CALCSRLRRG|T|LY|A|F|A|E|T|I|H|C|T|K|I|A|L|G|H|H|R|DDI|VET|MF|LN|L|F|Y|G|A|K|L|S|A|MP|PK|L|
tr|A0A2E0A0S2|A0A2E0A0S2_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|G|F|A|E|S|I|G|A|N|K|I|A|L|G|H|H|R|DDI|IET|LF|LN|L|F|H|G|G|K|L|K|A|MP|PK|L|
tr|M5E4J8|M5E4J8_9GAMM...E.GK|T.T|CSLCSRLRRG|T|LY|G|F|A|E|S|I|G|A|N|K|I|A|L|G|H|H|R|DDI|IET|LF|LN|L|F|H|G|G|K|L|K|S|MP|PK|L|
tr|G4QHE8|G4QHE8_GLANF...E.GK|T.T|CGLCSRLRRG|S|LY|S|F|A|E|S|I|G|A|T|K|I|A|L|G|H|H|R|DDM|VET|TF|LN|L|F|Y|G|A|K|L|K|S|MP|PK|L|
sp|Q9RX35|TTCA_DEIRA...E.GK|T.T|CGLCSRLRRG|I|LY|Q|H|A|R|E|I|G|A|T|K|I|A|L|G|H|H|R|E|D|I|LET|LF|LN|L|F|Y|G|A|R|L|K|A|MP|PK|L|
tr|A0A2T6E6Y1|A0A2T6E6Y1_9GAMM...E.GK|T.T|CGICSLRRRST|LY|A|F|A|D|Q|I|G|A|T|K|V|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|H|G|G|K|L|K|A|MP|PK|L|
tr|A0A1H8FZ23|A0A1H8FZ23_9PROT...E.GK|T.T|CSLCSRLRRG|V|LY|R|V|A|S|E|L|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
sp|B4SRP3|TTCA_STRM5...E.GR|T.M|CSLCSRLRRG|A|LY|N|H|A|K|A|H|G|F|T|R|I|A|L|G|H|H|R|C|DDM|VAT|FF|MN|L|F|H|H|A|K|L|S|G|MP|PK|L|
tr|A0A014NTY8|A0A014NTY8_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|H|G|A|K|L|K|A|MP|PK|L|
tr|A0A106CN14|A0A106CN14_9GAMM...E.GK|T.T|CSLCSRLRRG|S|LY|G|F|A|E|N|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|T|K|S|MP|PK|L|
tr|A0A2G6D781|A0A2G6D781_9PROT...E.GK|T.S|CSLCSRLRRG|I|LY|R|A|A|Q|D|L|R|A|T|K|I|A|L|G|H|H|R|E|D|I|LET|LL|LN|L|F|Y|G|G|S|L|K|T|MP|PK|L|
tr|A0A2U9T3K6|A0A2U9T3K6_9GAMM...E.GK|T.M|CSLCSRLRRG|A|LY|T|W|A|E|E|N|G|Y|N|K|I|A|L|G|H|H|R|DDL|VAT|FF|LN|L|F|F|H|A|K|L|S|G|MP|PK|L|
tr|A0A1I4A399|A0A1I4A399_9PROT...E.GK|T.T|CSLCSRLRRG|V|LY|R|V|A|S|E|L|G|A|T|K|I|A|L|G|H|H|R|DDL|VAT|FF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|B5JXV2|B5JXV2_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|G|Y|A|E|E|H|G|F|T|K|I|A|L|G|H|H|R|DDM|IET|LF|LN|L|F|Y|A|G|K|K|S|MP|PK|L|
tr|A0A1Z8NXD9|A0A1Z8NXD9_9PROT...E.GK|T.Q|K|T.T|CALCSRLRRG|I|LY|R|H|A|R|D|I|G|A|T|K|I|A|L|G|H|H|R|E|D|I|LET|LF|MN|L|F|F|G|A|R|L|K|A|MP|PK|L|
tr|A0A0D8CMH3|A0A0D8CMH3_9GAMM...E.GK|T.M|CGLCSRLRRG|T|LY|K|T|A|N|Q|L|G|V|T|K|I|A|L|G|H|H|R|E|D|I|LET|FF|LN|L|F|H|G|G|R|L|K|A|MP|PK|L|
tr|A0A0M2KFK4|A0A0M2KFK4_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|V|A|L|G|H|H|R|DDI|VET|MF|LN|L|F|H|G|A|R|L|K|A|MP|PK|L|
tr|K2AE11|K2AE11_9ZZZZ...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|H|G|A|K|L|K|A|MP|PK|L|
tr|A0A0R0ALL0|A0A0R0ALL0_9GAMM...E.GN|T.Y|CSLCSRLRRG|I|LY|R|Y|A|E|E|Q|G|F|N|K|I|A|L|G|H|H|R|DDI|IET|LL|MS|L|Y|N|G|Q|I|R|S|MP|PK|L|
tr|R9PKE0|R9PKE0_AGAAL...E.GK|T.M|CSLCSRLRRG|A|LY|A|Y|A|E|A|Q|G|F|T|K|I|A|L|G|H|H|R|DDM|VAT|FF|MN|L|F|H|H|A|K|L|S|G|MP|PK|L|
tr|A0A1M7YUB2|A0A1M7YUB2_9VIBR...E.GK|T.T|CGLCSRLRRG|T|LY|R|T|A|E|L|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|H|G|G|K|L|K|T|MP|PK|L|
tr|A0A1T5I0D4|A0A1T5I0D4_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|T|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|A0A128EXQ3|A0A128EXQ3_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|MF|LN|L|F|H|G|S|R|L|K|A|MP|PK|L|
tr|A0A1S1MUF5|A0A1S1MUF5_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|I|A|L|G|H|H|R|DDM|VET|LF|LN|L|F|H|G|A|R|L|K|G|MP|PK|L|
tr|A0A2X5R8S2|A0A2X5R8S2_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|H|G|A|R|K|A|MP|PK|L|
tr|A0A2N1XCXC2|A0A2N1XCXC2_9PSED...E.GK|T.T|CSLCSRLRRG|T|LY|S|F|A|E|E|I|G|A|T|K|I|A|L|G|H|H|R|DDM|VET|LF|LN|L|F|Y|Q|A|Q|K|G|MP|PK|L|
tr|A0A2G2H2M8|A0A2G2H2M8_9GAMM...E.GK|T.T|CGLCSRLRRG|S|LY|G|F|A|E|E|I|G|A|N|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|K|K|A|MP|PK|L|
tr|A0A2E4YGT6|A0A2E4YGT6_9GAMM...E.GK|T.T|CGLCSRLRRG|S|LY|G|F|A|E|E|I|G|A|N|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|K|K|A|MP|PK|L|
tr|A0A2G2Q5X8|A0A2G2Q5X8_9GAMM...E.GK|T.T|CGLCSRLRRG|S|LY|G|F|A|E|E|I|G|A|N|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|K|K|A|MP|PK|L|
tr|A0A220SM96|A0A220SM96_9GAMM...E.GK|T.T|CGLCSRLRRG|S|LY|G|F|A|E|E|I|G|A|N|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|G|K|K|A|MP|PK|L|
tr|A0A2D6RID9|A0A2D6RID9_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|D|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|A0A1Q4C5T9|A0A1Q4C5T9_9PROT...E.GK|T.T|CSLCSRLRRG|V|LY|R|V|A|G|E|L|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|G|K|L|K|T|MP|PK|L|
tr|A0A2U3BB10|A0A2U3BB10_9VIBR...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|H|G|S|R|K|A|MP|PK|L|
tr|A0A2T5JZZ2|A0A2T5JZZ2_9PROT...E.GK|T.T|CSLCSRLRRG|I|LY|R|V|A|G|E|L|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|G|K|L|K|T|MP|PK|L|
tr|A0A1H7YB07|A0A1H7YB07_9DEIO...E.GK|T.T|CALCSRLRRG|I|LY|A|H|A|R|R|I|G|A|T|K|I|A|L|G|H|H|R|E|D|I|LET|LF|MN|L|F|F|G|A|R|L|K|A|MP|PK|L|
tr|A0A286D8I8|A0A286D8I8_9GAMM...E.GK|T.M|CSLCSRLRRG|A|LY|S|Y|A|E|Q|Q|G|F|T|K|I|A|L|G|H|H|R|DDM|VAT|FF|LN|L|F|F|H|A|K|L|S|G|MP|PK|L|
tr|A0A2E5MLP7|A0A2E5MLP7_9ALTE...E.GK|T.T|CGLCSRLRRG|I|LY|N|F|A|D|E|H|G|V|T|K|I|A|L|G|H|H|R|DDM|LET|LF|LN|L|F|Y|G|G|K|L|K|T|MP|PK|L|
tr|A0A1E5CLD3|A0A1E5CLD3_9VIBR...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|MF|LN|L|F|H|G|A|R|L|K|A|MP|PK|L|
tr|A0A246B188|A0A246B188_9DEIO...P.GK|T.T|CALCSRLRRG|A|LY|R|H|A|R|E|L|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|MN|L|F|Y|G|A|R|L|K|A|MP|PK|L|
tr|A0A2E0TPH4|A0A2E0TPH4_9DELT...TDG.SA|T.Y|CSLCSRLRRG|I|LY|T|A|A|R|L|G|C|T|K|I|A|L|G|H|H|R|DDA|LET|FL|MN|L|F|Y|A|G|K|Q|A|MP|A|V|Y|
tr|A0A2N1X999|A0A2N1X999_9GAMM...E.GK|T.T|CSLCSRLRRG|T|LY|S|F|A|E|E|I|G|A|T|K|V|A|L|G|H|H|R|DDM|VET|LF|LN|L|F|Y|Q|A|Q|L|K|G|MP|PK|L|
tr|A0A1G0F8Z3|A0A1G0F8Z3_9GAMM...E.GK|T.T|CSLCSRLRRG|V|LY|R|T|A|E|L|G|S|K|I|A|L|G|H|H|R|DDI|LET|LL|LN|L|F|Y|G|G|T|L|K|G|MP|PK|L|
tr|A0A2G6L227|A0A2G6L227_9GAMM...A.GK|T.M|CSLCSRLRRG|I|LY|R|F|A|E|E|N|G|C|T|K|I|A|L|G|H|H|R|DDI|LET|FF|LN|L|F|Y|G|G|S|L|K|T|MP|PK|L|
tr|A0A256CJ46|A0A256CJ46_9GAMM...P.GK|T.M|CSLCSRLRRG|S|LY|S|F|A|K|E|H|G|Y|N|K|I|A|L|G|H|H|R|DDI|VET|LF|MN|L|F|Y|G|G|T|K|A|MP|PK|L|
tr|A0A2E0YVC0|A0A2E0YVC0_9GAMM...E.GK|T.T|CGLCSRLRRG|S|LY|G|F|A|R|D|I|G|A|T|R|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|T|K|A|MP|PK|L|
tr|A0A0C5V547|A0A0C5V547_9GAMM...E.GK|T.T|CGICSLRRRST|LY|A|F|A|E|Q|I|Q|A|N|K|V|A|L|G|H|H|R|DDI|IET|LF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|A0A1Y6BYG6|A0A1Y6BYG6_9ALTE...E.GK|T.T|CGICSLRRRST|LY|G|F|A|E|Q|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|A|G|R|L|K|A|MP|PK|L|
tr|A0A1Q3VUA6|A0A1Q3VUA6_9PROT...E.GK|T.T|CSLCSRLRRG|I|LY|R|T|A|K|E|L|G|A|N|K|I|A|L|G|H|H|R|DDM|VH|TF|LN|L|F|F|G|G|K|L|K|A|MP|PK|L|
tr|A0A2G6L2U7|A0A2G6L2U7_9GAMM...T.GK|T.M|CSLCSRLRRG|I|LY|R|F|A|G|E|N|G|V|T|K|I|A|L|G|H|H|R|K|DDI|LET|FF|LN|L|F|Y|A|G|T|K|T|MP|PK|L|
tr|A0A1U7NY21|A0A1U7NY21_9DEIO...P.QO|T.T|CTLCSRLRRG|H|LY|A|H|A|R|R|L|G|A|S|K|I|A|L|G|H|H|R|E|D|I|LET|FF|LN|L|F|Y|G|A|R|L|K|A|MP|PK|L|
tr|A0A1Z8RH77|A0A1Z8RH77_9GAMM...E.GK|T.Y|C|W|C|S|R|F|R|R|G|I|LY|K|Y|A|R|R|H|G|V|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|G|K|K|T|MP|PK|L|
tr|A0A2E3A5V1|A0A2E3A5V1_9BACT...G.DD.NA|T.Y|G|P|C|S|R|L|R|R|G|I|LY|T|A|A|R|I|G|C|N|X|L|A|L|G|H|H|R|DDA|LET|LL|LN|L|F|Y|A|G|R|Q|A|MP|A|S|Y|
tr|A0A2N5Y4E4|A0A2N5Y4E4_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|G|F|A|A|D|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|S|L|K|A|MP|PK|L|
tr|A0A1E5A1Z7|A0A1E5A1Z7_9GAMM...E.GR|T.T|CGLCSRLRRG|T|LY|G|F|A|E|Q|H|G|Y|N|K|I|A|L|G|H|H|R|DDI|IET|LF|LN|L|F|H|G|G|S|L|Q|A|MP|PK|L|
tr|A0A0F7JQ50|A0A0F7JQ50_9DEIO...E.GK|T.T|CALCSRLRRG|I|LY|A|H|A|R|R|I|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|MN|L|F|F|G|A|R|L|K|A|MP|PK|L|
tr|A0A1H9G1B6|A0A1H9G1B6_9GAMM...E.GK|T.T|CALCSRLRRG|T|LY|G|F|A|E|Q|I|G|A|N|K|I|A|L|G|H|H|R|DDI|LET|FF|LN|L|F|Y|G|G|K|L|K|S|MP|PK|L|
tr|A0A136JWK1|A0A136JWK1_9BACT...E.GK|T.Y|CSLCSRLRRG|I|LY|T|T|A|V|E|E|K|C|T|K|I|A|L|G|H|H|R|A|D|I|AT|FF|MN|L|F|Y|G|Q|L|K|A|MP|P|I|L|
tr|A0A2T3W7G0|A0A2T3W7G0_9DEIO...E.GK|T.T|CALCSRLRRG|I|LY|A|H|A|R|R|I|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|MN|L|F|Y|G|A|R|L|K|A|MP|PK|L|
tr|A0A1Y0FU52|A0A1Y0FU52_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|G|F|A|R|D|I|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|A0A2G6EXR6|A0A2G6EXR6_9GAMM...A.GK|T.M|CSLCSRLRRG|I|LY|R|C|A|A|E|R|N|C|N|K|I|A|L|G|H|H|R|K|DDI|LET|FF|LN|I|F|F|A|G|T|L|K|T|MP|PK|L|
tr|A0A091B674|A0A091B674_9GAMM...E.GK|T.M|CSLCSRLRRG|A|LY|R|H|A|K|E|R|G|F|T|K|I|A|L|G|H|H|R|DDL|VAT|FF|MN|L|F|H|H|A|K|L|S|G|MP|PK|L|
tr|A0A2P1PY19|A0A2P1PY19_9GAMM...E.GK|T.M|CGLCSRLRRG|S|LY|T|F|A|E|R|E|G|F|N|K|I|A|L|G|H|H|R|DDL|VET|MF|LN|L|F|Y|H|A|K|L|S|S|MP|PK|L|
tr|A0A1G5EWZ9|A0A1G5EWZ9_9GAMM...E.GK|T.Y|CSLCSRLRRG|I|LY|R|Y|A|E|E|K|G|F|N|K|I|A|L|G|H|H|R|DDL|I|R|S|L|MS|L|Y|N|D|I|R|S|MP|PK|L|
tr|A0A2E1XG70|A0A2E1XG70_9PROT...E.TK|Y.Y|CSLCSRLRRG|I|LY|R|V|A|R|E|S|C|D|A|I|V|L|G|H|H|R|DDA|LET|FM|LN|L|F|Y|G|G|R|A|A|MP|P|R|L|
tr|A0A2N5WYR8|A0A2N5WYR8_9GAMM...E.GK|T.T|CGLCSRLRRG|N|LY|G|F|A|Q|Q|I|G|A|N|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|K|K|A|MP|PK|L|
tr|A0A2I7N8U4|A0A2I7N8U4_9NEIS...E.GK|T.T|CGLCSRLRRG|I|LY|R|V|A|R|E|I|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|G|K|L|K|G|MP|PK|L|
tr|A0A2D9T881|A0A2D9T881_9DELT...D.QA|T.Y|CSLCSRLRRG|I|LY|T|A|A|R|L|G|C|N|K|I|A|L|G|H|H|R|DDS|LET|FL|MN|L|F|Y|S|G|K|Q|A|MP|A|V|Y|
tr|A0A2R8CL99|A0A2R8CL99_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|G|F|A|E|E|I|G|A|N|K|I|A|L|G|H|H|R|DDM|LET|LF|LN|L|F|Y|G|G|S|L|K|S|MP|PK|L|
tr|A0A1G0CRC9|A0A1G0CRC9_9PROT...E.GK|T.T|CSLCSRLRRG|I|LY|R|V|A|G|E|L|G|A|N|K|I|A|L|G|H|H|R|DDM|IET|LF|LN|L|F|F|G|G|K|L|K|A|MP|PK|L|
tr|A0A1J4ZIL9|A0A1J4ZIL9_9PROT...E.GK|T.T|CSLCSRLRRG|I|LY|K|V|A|G|E|L|G|A|N|K|I|A|L|G|H|H|R|DDM|IET|LF|LN|L|F|Y|A|G|K|L|K|A|MP|PK|L|
tr|A0A2E5Q4D6|A0A2E5Q4D6_9PROT...A.GK|T.M|CGLCSRLRRG|I|LY|S|F|A|R|K|A|C|M|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|R|L|K|S|MP|PK|L|
tr|A0A2E6R9S7|A0A2E6R9S7_9GAMM...E.GK|T.T|CGLCSRLRRG|N|LY|T|F|A|R|E|R|G|F|T|K|I|A|L|G|H|H|R|DDI|VET|FF|LN|L|Y|G|G|A|L|K|A|MP|PK|L|
tr|A0A1S1NZJ4|A0A1S1NZJ4_9GAMM...E.GK|T.Y|CGLCSRLRRG|T|LY|G|F|A|E|E|I|G|A|T|K|I|A|L|G|H|H|R|DDM|LET|LF|LN|L|F|Y|G|G|T|L|K|S|MP|PK|L|
tr|U1JQ15|U1JQ15_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|K|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|MF|LN|L|F|H|G|A|R|L|K|A|MP|PK|L|
tr|A0A1R4HE06|A0A1R4HE06_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|G|Y|A|E|R|A|N|G|I|T|K|I|A|L|G|H|H|R|DDI|LET|FF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|A0A2D8WQ79|A0A2D8WQ79_9GAMM...E.GK|T.T|CGLCSRLRRG|T|LY|S|F|A|E|I|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|A0A221SZ95|A0A221SZ95_9DEIO...E.GK|T.T|CALCSRLRRG|I|LY|R|H|A|R|E|I|G|A|T|K|I|A|L|G|H|H|R|DDI|LET|LF|MN|L|F|F|G|A|R|L|K|A|MP|PK|L|
tr|F5SUP2|F5SUP2_9GAMM...E.GK|T.T|CGICSLRRRST|LY|G|Y|R|A|R|Q|R|G|I|T|K|I|A|L|G|H|H|R|DDI|LET|LF|LN|L|F|Y|G|S|K|I|K|A|MP|PK|L|
tr|A0A0RCFZ1|A0A0RCFZ1_9GAMM...E.GS|T.M|CSLCSRLRRG|A|LY|A|H|A|K|A|E|G|F|T|K|I|A|L|G|H|H|R|DDM|VAT|FF|LN|L|F|F|H|A|R|L|A|A|MP|PK|L|
tr|A0A1H7YBV0|A0A1H7YBV0_9GAMM...E.GK|T.M|CSLCSRLRRG|A|LY|A|H|A|K|Q|I|G|F|T|K|I|A|L|G|H|H|R|DDA|VAT|FF|MN|L|F|H|H|A|K|L|S|G|MP|PK|L|
tr|A0A2E9A969|A0A2E9A969_9ALTE...E.GK|T.T|CGLCSRLRRG|T|LY|G|F|A|E|Q|I|G|A|T|K|I|A|L|G|H|H|R|DDI|VET|LF|LN|L|F|Y|G|G|K|L|K|A|MP|PK|L|
tr|A0A2A2I661|A0A2A2I661_9ALTE...E.GK|T.T|CGLCSRLRRG|I|LY|N|F|A|E|E|Q|G|V|T|K|I|A|L|G|H|H|R|DDL|LET|LF|LN|L|F|Y|G|G|T|L|K|T|MP|PK|L|

tr|A0A2E9LY13|A0A2E9LY13_9GAMM E. GKTT. CGLCSRLRRGTLTY. GF AEQI GATKIALGHHRDDIVETAF LNMFFG GKLKAMP AKL

tr|A0A1Z8WWD5|A0A1Z8WWD5_9GAMM N. GKTF. CGLCSRLRRGTLTY. RV AKEI GATKIALGHHRDDIETLF LNMFFC SKLKAMP PKL

tr|A0A0F9MI56|A0A0F9MI56_9ZZZZ E. GKTT. CGICSLRRRGSLY. GY ARQN GITKIALGHHRDDIMETLF LNMFFY GKIKAMP PPKL

tr|T1CTQ3|T1CTQ3_9ZZZZ E. GRNR. GYHKLALGHHQD DLETF LNLFFH GRLATMP PPKL

tr|A0A2E2U047|A0A2E2U047_9GAMM V. GKTT. CPICSLRRRGILY. GF ADKI GATKIALGHHRDDIVETLF LNMFFG GRLKAMP PPKL

tr|A0A2E6P5P0|A0A2E6P5P0_9GAMM E. GKTM. CGLCSRLRRGILY. SF AKEE GMNKIALGHHRDDIVETLF LNMFFH GRLKAMP PPKL

tr|FORNE2|FORNE2_DEI PM E. GKTT. CSLCSRLRRGILY. AH ARRL GATKIALGHHRDDIETLF LNMFFG GARLKAMP PPKL

tr|A0A0G9HE90|A0A0G9HE90_9GAMM Q. GKTM. CSLCSRMRRGALY. QW ASDN GITKIALGHHRDDILGTF LNMFFY QGSLKAMP PPKL

tr|A0A2E0Y598|A0A2E0Y598_9GAMM E. GKTT. CPICSLRRRGILY. AC ASRI GATKIALGHHRDDAVETLF LNLFFY GRMKAMP PPKL

tr|A0A2E1LHL9|A0A2E1LHL9_9PROT A. DRVA. CGLCSRLRRGVLY. RT AT EL GATKIALGHHRDDMVETLF LNLFFH AAKLKGMP PPKL

tr|A0A1Y5EW57|A0A1Y5EW57_9GAMM E. GKTT. CGICSLRRRGSLY. GY ARQN GITKIALGHHRDDIETAF LNMFFY GSKVKAMP PPKL

tr|A0A2W4ST11|A0A2W4ST11_9GAMM E. GQTT. CGLCSRLRRGALY. RY AL EN GITKIALGHHRDDIETFFF LNLFFH GRLKAMP PPKL

tr|A0A2E1UIK2|A0A2E1UIK2_9GAMM E. GKTT. CPVCSRLRRGILY. SH AKKI GATKIALGHHRDDVETLF LNMFFY GAKLKAMP PPKL

tr|A0A0W0R3V7|A0A0W0R3V7_9GAMM E. GKTY. CSLCSRLRRGILY. RY AEEQ GFTKIALGHHRDDLIRTF LMSILY NGDIRSMP PPKL

tr|A0A1Y6CSG3|A0A1Y6CSG3_9GAMM E. GKTT. CGLCSRLRRGVLY. RY AAEEN GITKIALGHHRDDIETFFF LNLFFY GAKLKAMP PPKL

tr|A0A2A5A3D3|A0A2A5A3D3_9GAMM E. GKTM. CGLCSRLRRRGSLY. GF AEKIN ATKIALGHHRDDIETLF LNMFFY GSKLKTMP PPKL

tr|N6WRQ1|N6WRQ1_9ALTE E. GKTT. CGLCSRLRRGILY. NF AEEH GVTKIALGHHRDDLETF LNMFFY GRLKAMP PPKL

tr|C6KUT2|C6KUT2_9BACT E. GKTT. CPVCSRMRRGILY. SH ARRI GADKIALGHHRDDVETLF LNLFFY GRLKAMP PPKL

tr|A0A250KVQ9|A0A250KVQ9_9GAMM E. GKTT. CGLCSRLRRGILY. RY AAEH GITKIALGHHRDDIETFFF LNLFFY GTLKAMP PPKL

tr|A0A1G3FEZ7|A0A1G3FEZ7_9GAMM A. GKTM. CSLCSRLRRGALY. TW AAAN GITKIALGHHRDDILATFFF LNLFFY QAQLKAMP PPKL

tr|A0A1B2MZL9|A0A1B2MZL9_9GAMM E. GR TM. CGLCSRLRRGALY. RH AAEN GF SKIALGHHRDDSVATFFF LNLFFH AAKLKSAMP PPKL

tr|A0A2D7VJ4|A0A2D7VJ4_9GAMM E. GKTM. CGLCSRLRRGILY. RY AREN GMSRIALGHHSDMIETLF LNMFFH GQLKSMPP PPKL

tr|A0A2A2F9C1|A0A2A2F9C1_9GAMM E. GKTA. CGLCSRLRRGILY. NF AEEQ GCTKIALGHHRDDIETLMM LNMFFH GRLKAMP PPKL

tr|A0A0W0VN22|A0A0W0VN22_9GAMM E. GKTY. CSLCSRLRRGILY. RY AAEEN GYNKIALGHHRDDIIRTF LLSMFY NGDIRSMP PPKL

tr|A0A2E8KD45|A0A2E8KD45_9GAMM E. GKTT. CGLCSRLRRGNLY. GF AESI GANKIALGHHRDDIETLF LNLFFH GAKLKAMP PPKL

tr|V5BRF5|V5BRF5_9GAMM E. GATT. CGLCSRLRRGTLTY. GY AEAN GITKIALGHHRDDIETFFF LNFIFY GKIKAMP PPKL

tr|G4SXZ6|G4SXZ6_MET A2 E. GQTT. CGLCSRLRRGTLTY. GF AEAN GITKIALGHHRDDIETFFF LNFIFY GKIKAMP PPKL

tr|A0A2N1XMN0|A0A2N1XMN0_9GAMM E. GKTT. CGLCSRLRRGTLTY. GY AEAN GVTKIALGHHRDDIETFFF LNFIFY GKIKAMP PPKL

tr|A0A0F9TJC2|A0A0F9TJC2_9ZZZZ E. GKTT. CGICSLRRRGSLY. GY ARQN GITKIALGHHRDDIETAF LNMFFY GSKLKAMP PPKL

tr|A0A1Y5DWS8|A0A1Y5DWS8_9GAMM E. GKTT. CGICSLRRRGSLY. GY ARQN GITKIALGHHRDDIETTF LNMFFY GSKLKAMP PPKL

tr|A0A1I2HAE1|A0A1I2HAE1_9GAMM E. GKTM. CSLCSRLRRGALY. AW AAAN GITKIALGHHRDDILGTF LNLFFH QAQLKAMP PPKL

tr|A0A1Z8VE82|A0A1Z8VE82_9PROT E. GKTM. CGLCSRLRRGILY. RY ACXN GMNRIALGHHSDMIETLF LNMFFH GQLKSMPP PPKL

tr|A0A2W6RX85|A0A2W6RX85_9GAMM S. GKTT. CGLCSRLRRGILY. RV AEEL GATKIALGHHRDDIETFFF LNLFFY GTLKAMP PPKL

tr|A0A0LOEXB2|A0A0LOEXB2_9GAMM E. GKTT. CSLCSRLRRGSLY. TF AEEI N ATKIALGHHRDDAVETL LNMFFN NGKIKSMPP PPKL

tr|A0A2E9ZJK3|A0A2E9ZJK3_9GAMM A. GKTY. CGLCSRLRRGILY. NY ADSI GASKIALGHHRDDIETLF LNMFFY GSKLKAMP PPKL

tr|A0A2T4E3N7|A0A2T4E3N7_9PROT E. GKTT. CALCSRLRRALY. RT ANEL SA TKIALGHHRDDMLETF LNMFFY GSKLKAMP PPKL

tr|A0A1Y5GPM4|A0A1Y5GPM4_9GAMM D. GEKT. CWLCSRMRRGILY. DA AVHL GVTKIALGHHRDDIETLF LNMFFH GSKIKGMP PPKL

tr|A0A220VEU1|A0A220VEU1_9GAMM E. GKTT. CSLCSRLRRGSLY. SF AEEI N ATKIALGHHMDDVETLF LNMFFN NAKLKAMP PPKL

tr|A0A1Z9E398|A0A1Z9E398_9GAMM E. GKTT. CGLCSRLRRGTLTY. GF AEQI GANKIALGHHRDDIVETAF LNMFFY GKIKAMP PPKL

tr|A0A261GIF8|A0A261GIF8_9GAMM E. GKTT. CGLCSRLRRGILY. DF AVEH GCTKIALGHHRDDIMETLF LNMFFY GSKLKAMP PPKL

tr|A0A2E8J678|A0A2E8J678_9GAMM E. GKTY. CSWCSRFRRGILY. RF AKNN GYNKIALGHHRDDMVETLF LNLFFY GSKLKSMPP PPKL

tr|A0A2D7J8K6|A0A2D7J8K6_9GAMM E. GKTT. CGLCSRLRRGTLTY. GF ADQI GASKIALGHHRDDIVETLF LNLFFG GKLKAMP AKL

tr|A0A1G0D1G5|A0A1G0D1G5_9PROT E. EQTY. CSLCSRLRRGTLTY. EY ASRH GYTKIALGHHRDDLIQSL LMSLFY NGDIRSMP PPKL

tr|A0A26DJJ6|A0A26DJJ6_9GAMM E. GKTT. CGLCSRMRRGTLTY. RW AEEQ GITKIALGHHRDDIETL LNMFFH GSKLKAMP PPKL

tr|Q603CT|TTC A_METCA E. GKTT. CGLCSRLRRGILY. RY AADH GITKIALGHHRDDIETFFF LNLFFY GTLKAMP PPKL

tr|A0A2A5G2D9|A0A2A5G2D9_9GAMM E. GKTT. CGLCSRLRRGILY. SF AEKI GASKIALGHHQDDIETFFF LNMFFN NAKLKTMP PPKL

tr|I1XHY5|I1XHY5_METN2 E. NKTT. CAMCSRLRRGSLY. GY ARQH GITKIALGHHRDDIETLF LNMFFY GKIKAMP PPKL

tr|A0A2G2LPW3|A0A2G2LPW3_9GAMM E. GKTT. CGICSLRRRGSLY. GY ARQN GITKIALGHHRDDIETAF LNMFFY GSKIKAMP PPKL

tr|I8TCV9|I8TCV9_9GAMM E. GKTL. CGLCSRLRRGALY. TY AQEQ GFTKIALGHHRDDILATFFF LNLFFG GSKLKAMP PPKL

tr|A0A2E8K888|A0A2E8K888_9GAMM E. GKTY. CGWCSRFRRGILY. NF AKTH GYNKIALGHHRDDIVETLF LNLFFG GSKLKSMPP PPKL

tr|A0A1Y5FUF8|A0A1Y5FUF8_9GAMM E. NKTY. CGLCSRLRRGSLY. GF AEQI GATKIALGHHRDDIETLF LNMFFY GSKLKSMPP PPKL

tr|A0A2E7EB10|A0A2E7EB10_9GAMM E. GKTT. CGLCSRLRRGTLTY. GF AESI GANKIALGHHRDDIETLF LNMFFY GSKLKAMP PPKL

tr|A0A0F9W8F1|A0A0F9W8F1_9ZZZZ E. GKTT. CGLCSRLRRGSLY. GF AEQI GATKIALGHHRDDIVETLF LNMFFN GSKLKAMP PPKL

tr|A0A1Z9TK40|A0A1Z9TK40_9PROT E. GKTT. CPVCSRLRRGILY. SH AQKI GATKIALGHHRDDVETLF LNMFFY GRLKAMP AKX

tr|A0A1D3RQ23|A0A1D3RQ23_9BACT E. GQTT. CSLCSRLRRGSLY. GY AKA E GITKIALGHHRDDIETFFF LNFIFY AAKLKAMP PPKL

tr|A0A2A4AZU3|A0A2A4AZU3_9PSED E. GKTT. CALCSRLRRGSLY. GF AEEI GATKIALGHHMDDMVETLF LNMFFN GKMKAMP PPKL

tr|A0A2E8CJP9|A0A2E8CJP9_9GAMM Q. GKTM. CGLCSRLRRGILY. RY AREQ GMTRIALGHHRDDMIETLF LNMFFY GQLKSMPP PPKL

tr|A0A0W0TW89|A0A0W0TW89_9GAMM E. GKTY. CSLCSRLRRGILY. RY AEEH GYNKIALGHHRDDIIRTF LLSMFY NGDIRSMP PPKL

tr|I1YG12|I1YG12_METFJ E. GKTT. CGICSLRRRGSLY. SY AREN GITKIALGHHRDDIETLF LNMFFY GSKIKAMP PPKL

tr|A0A1Z4BZX9|A0A1Z4BZX9_9GAMM E. GQTT. CGLCSRLRRGTLTY. GY AEAN GVTKIALGHHRDDIETFFF LNFIFY GKIKAMP PPKL

tr|A0A2E5C3Z9|A0A2E5C3Z9_9GAMM E. GKTY. CSLCSRLRRGTLTY. GF AEQI GATRIALGHHRDDMIETLF LNMFFY GSKLKSMPP PPKL

tr|A0A2T5MF75|A0A2T5MF75_9GAMM E. GKTM. CSLCSRMRRGALY. RY AIEQ GFTKIALGHHRDDIATFFF LNLFFH GSKLSAMP PPKL

tr|A0A1I6KR70|A0A1I6KR70_9GAMM E. GKTM. CSLCSRLRRGALY. QW AADN GVTKIALGHHRDDILGTF LNLFFY QAQLKAMP PPKL

tr|S5THM5|S5THM5_9GAMM E. GKTT. CGLCSRMRRGALY. AY AEDN GF NKIALGHHRDDIETFFF LNMFFY GQLKAMP AKL

tr|A0A2E5MAX8|A0A2E5MAX8_9GAMM E. GKPT. CPLCSRLRRGILY. TF AAKL GATKIALGHHMDDVETLF LNMFFG GRLKGMPP PPKL

tr|A0A1G0JJE0|A0A1G0JJE0_9GAMM E. GKTF. CGLCSRMRRGSLY. AY AKEI GATKIALGHHRDDIVETLF LNMFFG GQLKAMP PPKL

tr|A0A250I8R2|A0A250I8R2_9DELT P. GKTT. CSVCSRMRRGILY. SA AV AL GKNKIALGHHRDDLIHTLL LNLFFAGS IARGMP PPL

tr|A0A250JI97|A0A250JI97_9DELT P. GKTT. CPVCSRLRRGILY. TA AV EL GKNKIALGHHRDDLVHTLL LNLFFAGS IARGMP PPL

tr|A0A2D8XZ99|A0A2D8XZ99_9GAMM E. GKTT. CPVCSRLRRGILY. SH AQKI GATKIALGHHRDDVETLF LNMFFY GRMKSMPP AKL

tr|A0A0S2KD85|A0A0S2KD85_9GAMM E. GKTY. CGLCSRLRRGILY. SY ARQI GANKIALGHHRDDIVETLF LNMFFY GAKLKAMP PPKL

tr|A0A0B4XNW6|A0A0B4XNW6_9GAMM E. GKTT. CALCSRLRRGNLY. GF AEEI GATKIALGHHRDDIVETLF LNMFFN GKMKAMP PPKL

tr|A0A2G2Q9V3|A0A2G2Q9V3_9GAMM E. GKTT. CGICSLRRRGSLY. GY ARQN GITKIALGHHRDDIETAF LNMFFY GSKVKAMP PPKL

tr|A0A133XFF6|A0A133XFF6_9RHO E. GKTT. CGLCSRLRRGILY. KT AKEL GANKIALGHHRDDMVHTLF LNLFFG GSKIKAMP PPKL

tr|A0A2A5CYC0|A0A2A5CYC0_9GAMM E. GKTT. CGLCSRLRRGVLY. GF AEKH GVTKIALGHHRDDIETLF LNMFFG GSKLKAMP PPKL

tr|A0A2A5BHU1|A0A2A5BHU1_9GAMM E. GKTT. CGICSLRRRGALY. GY ARKN GITKIALGHHRDDIETAF LNMFFY GSKLKAMP PPKL

tr|E8U6F5|E8U6F5_DEIML E. GKTT. CGLCSRLRRGILY. TH AKRI GATKIALGHHRDDIETLF LNMFFH GARLKAMP PPKL

tr|A6GKC6|A6GKC6_9DELT P. GKAY. CAVCSRLRRGVLY. NV AERL GKNKIALGHHRDDALETF LNLFFY AGKLQAMP AKY

tr|M7P1R7|M7P1R7_9GAMM E. GKTT. CGICSLRRRGSLY. GF ARES GITKIALGHHRDDIETLF LNMFFG GSKIKAMP PPKL

tr|A0A0K1PVH2|A0A0K1PVH2_9DELT A. GATY. CSLCSRLRRGILY. SA AERL GKNKVALGHHRDDGLETF LNLFFY GSKLQAMP ASF

tr|A0A0F9W6I5|A0A0F9W6I5_9ZZZZ E. GKTY. CGLCSRLRRGSLY. TY ARQI GANKIALGHHRDDIVETLF LNMFFG GKMKAMP PPKL

tr|A0A0R2V9H0|A0A0R2V9H0_9PROT E. GKTT. CSLCSRLRRGILY. KT AKAL EVNKIALGHHKNDIVETFFF LNMFFH GSKLKAMP PPKL

tr|A0A2G6PCZ6|A0A2G6PCZ6_9GAMM T. GATM. CSLCSRLRRGILY. SY ARVH GMTKIALGHHRDDIMETFFF LNLFFY GQLKAMP PPKL

tr|A0A0C1V3E1|A0A0C1V3E1_9CYAN E. GKTM. CGLCSRLRRGVLY. RV AAE E GVTKIALGHHRDDIVETFFF LNLFFH GRMKAMP PPKL

tr|A0A2U2AST5|A0A2U2AST5_9GAMM E. GKTT. CSLCSRLRRGALY. QY AKEG FKNKIALGHHRDDIVETLF LNLFFG GQLKAMP PPKL

tr|A0A1Y5EEL08|A0A1Y5EEL08_9GAMM E. GKTT. CGLCSRMRRGALY. AY AEEHAY NKIALGHHRDDIETFFF LNMFFH GSKLKAMP PPKL

tr|A0A1X1QNJ6|A0A1X1QNJ6_9GAMM E. GKTS. CGLCSRMRRGALY. AY AQEN GYNKISLGHHRDDIVETFFF LNMFFH GQLKAMP AKL

tr|A0A0F7BPK4|A0A0F7BPK4_MYXFU P. GKTT. CAVCSRMRRGILY. TA AV EL GYNKIALGHHRDDLIHTLL LNLFFAGS IARGMP PPL

tr|A0A1G0EFZ6|A0A1G0EFZ6_9PROT E. GKTT. CGLCSRLRRGILY. RV AHEL GANKIALGHHRDDMIETLF LNMFFH GSKLKAMP PPKL

tr|A0A2N1YKY9|A0A2N1YKY9_9GAMM E. GKTT. CGLCSRLRRGTLTY. GF AEEI GANKIALGHHRDDIVETLF LNLFFH GSKLKAMP PPKL

tr|A0A2P8WE43|A0A2P8WE43_9CYAN E. GKTM. CGLCSRLRRGILY. RV AAEER ATKIALGHHRDDMVETLF LNMFFH GRLKGMPP PPKL

tr|A0P4J5|A0P4J5_9PROT E. GKTT. CSLCSRLRRGILY. KK AKAI GANKIALGHHKNDIVETFFF LNMFFH GSKLKAMP PPKL

tr|A0A1Y1SIS5|A0A1Y1SIS5_9GAMM E. GKTT. CGLCSRLRRGALY. SY AEA E GFTKIALGHHMDDIVETLF LNLFFH GARLAAMP PPKL

tr|A0A2A5C6W6|A0A2A5C6W6_9GAMM E. GKSY. CGLCSRLRRGSLY. SY AKKI GASKIALGHHHDLMETLF LNMFFG GSKLKAMP PPKL

tr|A0A2P5MXA3|A0A2P5MXA3_METSP E. GKTT. CSLCSRLRRGTLTY. GF AKEHN I TKIALGHHRDDIETFFF LNMFFY AGKLKAMP PPKL

tr|A0A2E0CPF1|A0A2E0CPF1_9GAMM E. NKTY. CGLCSRLRRGTLTY. GF AKQI GANKIALGHHRDDIVETLF LNMFFY GSKLKAMP PPKL

tr|A0A0R2TBZ4|A0A0R2TBZ4_9GAMM E. GKTF. CGLCSRLRRGILY. NK AV EM GATKIALGHHRDDIVETLF LNMFFY GSKLKAMP PPKL

tr|A0A2P5N529|A0A2P5N529_METSP E. GQTT. CGLCSRLRRGTLTY. GY AEAN GITKIALGHHRDDIETFFF LNFIFY GKIKAMP PPKL

tr|A0A2E7XL11|A0A2E7XL11_9GAMM E. GKTY. CGWCSRFRRGILY. TH AKRH GFTKIALGHHRDDIETLF LNLFFH GSKLKTMP PPKL

tr|A0A2N6EIU6|A0A2N6EIU6_9DELT A. GSSY. CAFCARLRRGSLY. TL ADRL CNKIALGHHRDDLETF LNLFFY GTLGSMPP PPKL

tr|A0A1V8M7R8|A0A1V8M7R8_9GAMM E. GQTT. CGLCSRLRRGILY. GY AQEQ GVTKIALGHHRDDIETFFF LNFIFY AGKLKAMP PPKL

tr|Q2SK22|TTC A_HAHCH E. GKTT. CGLCSRLRRGILY. DF AVEH KTKIALGHHRDDIMETLF LNMFFY GKMKAMP PPKL

tr|A0A1Z5HBC1|A0A1Z5HBC1_9GAMM E. GKTT. CGLCSRLRRGSLY. GY AQEQ GITKIALGHHRDDIETFFF LNFIFY GSKLKAMP PPKL

tr|A0A2S5TJU9|A0A2S5TJU9_9GAMM E. GKTM. CGLCSRLRRGILY. RV AKEI GATKIALGHHMDDMIETLF LNMFFG GQLKAMP PPKL

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----------|--------|---|------------|------------|---------|------------|------------|------------|--------|-------|----|-------|-------|-----|----|------|-----|-----|------|------|------|--|--|
| tr\|A4A3N4\|A4A3N4_9GAMM | | E. GKT | T | CGLCSRLRRG | TLY. GF | AESI | GASRIALGHH | DDIVET | LF | LNMFY | G | GT | LKAMP | PKL | | | | | | | | | | |
| tr\|A0A2G2KAL2\|A0A2G2KAL2_9PROT | | D. GKT | M | CGLCSRLRRG | I | LY. SFA | QSGM | TKIALGHH | DDIVET | LF | LNMFY | G | GR | LKAMP | PKL | | | | | | | | | |
| tr\|A0A2E5FBG4\|A0A2E5FBG4_9GAMM | | E. GKT | T | CGLCSRLRRG | I | LY. AY | AEEH | GNKIALGHH | DDIVET | LF | LNMFY | G | GR | LKAMP | PKL | | | | | | | | | |
| tr\|A0A2A4SMP6\|A0A2A4SMP6_9GAMM | | V. GKT | Y | CGLCSRLRRG | N | IY. RF | AEDN | GNKVALGHH | DDI | Q | SM | ML | SM | LYNG | G | GR | IRSM | PKL | | | | | | |
| tr\|A0A0F6W7V0\|A0A0F6W7V0_9DELT | | P. GKT | Y | CTVCSRLRRG | I | LY. SA | AERL | GCSAIALGHH | DDALE | T | FL | MN | LF | F | AG | K | Q | AMP | PAS | | | | | |
| tr\|A0A2FOA0K3\|A0A2FOA0K3_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. TY | AEEQ | GFTKIALGHH | DDMVET | LF | LNLF | H | FG | K | MA | S | PKL | | | | | | | |
| sp\|Q11U13\|TTCA_CYTH3 | | A. GKT | M | CGLCSRLRRG | S | LY. AT | AEEI | GVTKIALGHH | EDVLET | FF | LN | LF | F | G | ME | A | P | KY | | | | | | |
| tr\|A0A2P5NEZ4\|A0A2P5NEZ4_METSP | | E. GKT | T | CGLCSRLRRG | T | LY. GF | AHEH | KISKIALGHH | DDIET | FF | LN | MF | Y | A | G | H | L | K | AMP | PKL | | | | |
| tr\|E1VQC6\|E1VQC6_9GAMM | | E. GKT | M | CGLCSRLRRG | H | LY. SF | AEEI | GATKVALGHH | DDIMET | LF | LN | MF | Y | G | K | L | K | G | M | PKL | | | | |
| tr\|A0A2E2MTL9\|A0A2E2MTL9_9GAMM | | E. GKT | Y | CGLCSRLRRG | T | LY. GF | AEEI | GATKVALGHH | DDIVET | LF | LN | MF | Y | G | K | L | K | A | M | PKL | | | | |
| tr\|A0A1Z9FGH1\|A0A1Z9FGH1_9GAMM | | E. GKT | T | CPVCSRLRRG | I | LY. TH | AKKI | GATKIALGHH | DDVVET | LL | LN | MF | Y | G | A | R | L | K | A | M | PAKL | | | |
| tr\|A0A1I3DY85\|A0A1I3DY85_9GAMM | | E. GKT | T | CALCSRLRRG | S | LY. GF | AEEI | GATKVALGHH | EDILET | LF | LN | MF | Y | G | T | L | K | A | M | PKL | | | | |
| tr\|A0A2E2HA01\|A0A2E2HA01_9GAMM | | E. GKT | S | Y | CGLCSRLRRG | N | LY. SY | AEEI | GATKIALGHH | DDIMET | LF | LN | MF | Y | G | K | L | K | A | M | PKL | | | |
| tr\|K2BLN4\|K2BLN4_9ZZZZ | | E. GKT | Y | CGLCSRLRRG | I | LY. TY | AEEI | KISKIALGHH | DDLIQ | T | FL | MS | AF | Y | N | G | K | V | K | S | M | PKL | | |
| tr\|A0A160DYR1\|A0A160DYR1_9GAMM | | D. GKT | M | CGLCSRLRRG | I | LY. DF | AERE | GFTKIALGHH | DDIVET | LF | LN | LF | H | A | L | K | A | M | PKL | | | | | |
| tr\|A0A1I1GW43\|A0A1I1GW43_9GAMM | | E. GKT | T | CGLCSRLRRG | S | LY. GF | AEEI | GATKIALGHH | DDILET | LF | LN | LF | F | G | S | I | K | S | M | PKL | | | | |
| tr\|A0A2G2QJ4A\|A0A2G2QJ4A_9GAMM | | E. GKT | T | CGLCSRLRRG | I | LY. AY | AEEH | GNKIALGHH | DDILET | FF | LN | MF | Y | G | Q | L | K | A | M | PAKL | | | | |
| tr\|A0A1X1QH62\|A0A1X1QH62_9GAMM | | E. GKT | T | CGLCSRLRRG | I | LY. AY | AEEH | GNKIALGHH | DDIET | FF | LN | MF | Y | G | Q | L | K | A | M | PAKL | | | | |
| tr\|A0A0B6X1V9\|A0A0B6X1V9_9BACT | | E. GKT | Y | CSVCSRLRRG | I | LY. QT | AVEE | GCSKIALGHH | ADDIT | T | FL | LN | LF | F | I | G | L | K | A | M | PVL | | | |
| tr\|A0A1E2VEV8\|A0A1E2VEV8_9GAMM | | E. GKT | T | CGLCSRLRRG | T | LY. GY | AEEI | GATKIALGHH | DDILET | LF | LN | MF | Y | G | T | L | K | A | M | PKL | | | | |
| tr\|A0A1K1VFB2\|A0A1K1VFB2_9GAMM | | E. GKT | T | CGLCSRLRRG | T | LY. GF | AEEI | GATKIALGHH | DDILET | LF | LN | LF | F | G | S | L | K | A | M | PKL | | | | |
| sp\|Q1QZ76\|TTCA_CHRS | | E. GKT | T | CALCSRLRRG | T | LY. GF | AEEI | GANKVALGHH | EDMLET | LF | LN | MF | Y | G | S | L | K | S | M | PKL | | | | |
| tr\|A0A1Q7Y781\|A0A1Q7Y781_9BACT | | E. GKT | Y | CSVCSRLRRG | I | LY. NT | AVEE | GCTKIALGHH | ADDIAT | FL | LN | LF | Y | V | G | T | L | K | A | M | PVL | | | |
| tr\|A0A078MNG2\|A0A078MNG2_9PSED | | E. GKT | T | CGLCSRLRRG | N | LY. TF | ADEI | GATKMAHGHH | DDIVET | FF | LN | MF | Y | G | N | L | K | A | M | PAKL | | | | |
| tr\|A0A2E4UVU2\|A0A2E4UVU2_9GAMM | | E. GKT | Y | CGWCSRFRRG | I | LY. RF | ARER | GYNKIALGHH | DDIMET | LF | LN | LF | H | G | K | L | T | M | PKL | | | | | |
| tr\|A0A2E8VQS3\|A0A2E8VQS3_9GAMM | | E. GKT | Y | CGWCSRFRRG | I | LY. RF | AREQ | GYNKIALGHH | DDIMET | LF | LN | LF | H | G | K | L | T | M | PKL | | | | | |
| tr\|A0A1X1QKH8\|A0A1X1QKH8_9GAMM | | E. GKT | T | CGLCSRLRRG | I | LY. AY | AEEH | GNKIALGHH | DDIET | FF | LN | MF | Y | G | Q | L | K | A | M | PAKL | | | | |
| tr\|A0A0K0XS81\|A0A0K0XS81_9GAMM | | E. GKT | T | CGLCSRLRRG | I | LY. EF | AREN | GMSKIALGHH | DDIVET | FF | LN | LF | H | A | S | L | K | A | M | PAKL | | | | |
| tr\|A0A0W0XNH6\|A0A0W0XNH6_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PKL | | | | |
| tr\|A0A2I2TD26\|A0A2I2TD26_9BURK | | E. GKT | T | CGLCSRLRRG | I | LY. RV | ALEE | GATKIALGHH | DDILET | LL | MN | MF | H | G | K | L | K | G | M | PAKL | | | | |
| tr\|A0A2J6IVU2\|A0A2J6IVU2_9DELT | | P. GKT | Y | CSFCAIRLRG | V | LY. TL | ADEL | CNKIALGHH | DDIET | LL | LN | Q | F | Y | V | G | S | L | K | A | M | PAKL | | |
| tr\|A0A2S6F1D8\|A0A2S6F1D8_LEGPN | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PKL | | | | |
| tr\|A0A1G0KEH2\|A0A1G0KEH2_9GAMM | | E. DKT | M | CGLCSRLRRG | I | LY. SF | AKRQ | GFTKIALGHH | DDIET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| tr\|A0A1Q4DS47\|A0A1Q4DS47_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PKL | | | | |
| tr\|A0A0W1A0B9\|A0A0W1A0B9_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GNKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PKL | | | | |
| tr\|A0A2E0K3M4\|A0A2E0K3M4_9GAMM | | E. GKT | T | CGLCSRLRRG | T | LY. GF | AESI | GANKIALGHH | DDIET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| tr\|A0A2G2PS69\|A0A2G2PS69_9RHOB | | E. GKT | T | CGLCSRLRRG | T | LY. GF | AESI | GANKIALGHH | DDIET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| sp\|B0CEK4\|TTCA_ACAM1 | | E. GKT | M | CGLCSRLRRG | I | LY. RV | AEEI | GATKIALGHH | DDIET | LF | LN | LF | H | A | G | L | E | A | M | PAKL | | | | |
| tr\|A0A1H8PL64\|A0A1H8PL64_9GAMM | | E. GKT | M | CGLCSRLRRG | I | LY. TA | AEEH | GMSKIALGHH | DDIVET | LF | LN | LF | Y | G | R | L | A | T | A | M | PAKL | | | |
| tr\|A0A150WJT3\|A0A150WJT3_BDEBC | | Q. GKT | Y | CGLCSRLRRG | I | LY. DY | AHAM | GFTKIALGHH | DDVVET | AL | LN | LF | Y | I | G | T | L | A | M | PAKL | | | | |
| tr\|A0A2V8SJ7\|A0A2V8SJ7_9BACT | | E. GKT | F | CGLCSRLRRG | I | LY. TT | AEEH | GCTKIALGHH | ADDIET | FL | LN | LF | F | Y | G | L | K | A | M | PAKL | | | | |
| tr\|A0A2E0PXG2\|A0A2E0PXG2_9GAMM | | E. NKT | Y | CGLCSRLRRG | I | LY. RF | AKEH | GYTKIALGHH | DDIET | LF | LN | MF | Y | G | R | L | K | S | M | PAKL | | | | |
| tr\|A0A0W0YHS4\|A0A0W0YHS4_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDMIRT | FM | MS | V | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|A0A0W0YX04\|A0A0W0YX04_LEGSP | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|A0A0W0Y1A5\|A0A0W0Y1A5_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|A0A2V8N211\|A0A2V8N211_9BACT | | E. GKT | S | CAVCSRLRRG | I | LY. NI | AVEE | GCSKIALGHH | ADDIET | FL | LN | LF | F | Y | G | L | K | A | M | PVL | | | | |
| tr\|A0A2D6K8G1\|A0A2D6K8G1_9GAMM | | E. DKT | Y | CGLCSRLRRG | I | LY. TY | AONK | GFTKIALGHH | DDIET | FF | LN | LF | H | A | G | L | K | A | M | PVL | | | | |
| tr\|A0A1Y0I978\|A0A1Y0I978_9GAMM | | E. GKT | T | CGLCSRLRRG | I | LY. DV | AQDK | GATKIALGHH | DDILET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| tr\|A0A2E1SSR6\|A0A2E1SSR6_9GAMM | | E. DKT | F | XGLXSRLRRG | T | LY. GF | AXKI | GATKXALGHH | DDIVET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| tr\|A0A2H9SJG2\|A0A2H9SJG2_9GAMM | | E. GNT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GYTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|A0A0Q9YJP1\|A0A0Q9YJP1_9COXI | | E. NST | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|F3KCP3\|F3KCP3_9GAMM | | E. GKT | T | CALCSRLRRG | S | LY. GF | ANEI | GATKIALGHH | DDIMET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| tr\|A0A162H722\|A0A162H722_9GAMM | | E. GKT | T | CGLCSRLRRG | S | LY. GF | AQDI | GATKIALGHH | DDIVET | LF | LN | MF | Y | G | S | L | K | A | M | PAKL | | | | |
| tr\|A0A2H0I774\|A0A2H0I774_9GAMM | | E. NKT | Y | CGLCSRLRRG | I | LY. RY | AKDH | GFTKIALGHH | DDIET | LM | MS | T | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|H8MUK0\|H8MUK0_CORCM | | P. GKT | Q | CSVCSRLRRG | I | LY. NA | AVHL | CNKIALGHH | DDLIET | LM | LN | MF | F | A | G | S | L | K | A | M | PVL | | | |
| tr\|A0A2A5BA99\|A0A2A5BA99_9GAMM | | E. GKT | F | CGLCSRLRRG | I | LY. NY | ADSI | GASKIALGHH | DDIVET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| tr\|A0A098G0M4\|A0A098G0M4_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|A0A2D7G655\|A0A2D7G655_9GAMM | | E. GKT | T | CPICSLRRRG | I | LY. AH | AKEI | GANKIALGHH | DDIVET | LF | LN | MF | Y | G | A | K | L | K | A | M | PAKL | | | |
| tr\|A0A2G6KVY6\|A0A2G6KVY6_9GAMM | | E. GKT | T | CGLCSRLRRG | S | LY. GF | AKQI | GATKIALGHH | DDIVET | LF | LN | MF | Y | G | S | L | K | A | M | PAKL | | | | |
| tr\|W5WZF1\|W5WZF1_BDEBC | | Q. GAT | Y | CGLCSRLRRG | I | LY. DF | AYDN | KFTKMAHGHH | DDIVET | AL | LN | Q | F | Y | I | G | T | A | A | M | PAKL | | | |
| tr\|A0A078LOC8\|A0A078LOC8_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GFTKIALGHH | DDLIET | LM | MS | T | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|G9ENU4\|G9ENU4_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. RY | AEEH | GNKIALGHH | DDIVET | LM | MS | T | LY | NG | D | I | R | S | M | PAKL | | | | |
| tr\|A0A2F0AMS3\|A0A2F0AMS3_9DELT | | P. GKT | F | CAPCSRLRRG | I | LY. TT | AERL | GCKNIALGHH | DDILET | LM | MN | MF | F | G | K | L | A | M | PVL | | | | | |
| tr\|A0A2V8RKE7\|A0A2V8RKE7_9BACT | | E. GKT | F | CGLCSRLRRG | I | LY. NV | AVEE | GCTKIALGHH | DDIET | FL | LN | LF | F | Y | G | L | K | A | M | PVL | | | | |
| tr\|A0A2E1TYN5\|A0A2E1TYN5_9GAMM | | E. GKT | Y | CGLCSRLRRG | I | LY. NY | AEEI | GANKIALGHH | DDIET | LF | LN | MF | Y | G | R | L | K | A | M | PAKL | | | | |
| tr\|A0A193LJH7\|A0A193LJH7_9GAMM | | E. GKT | M | CGLCSRLRRG | T | LY. GT | AQEI | GATKIALGHH | DDIVET | LM | LN | MF | H | G | S | R | L | K | T | M | PAKL | | | |
| tr\|A0A2E7IRI1\|A0A2E7IRI1_9GAMM | | E. GKT | T | CALCSRLRRG | S | LY. GF | SEEI | GATKIALGHH | DDIVET | LM | LN | MF | F | Q | A | K | L | A | M | PAKL | | | | |
| tr\|A3YAC1\|A3YAC1_9GAMM | | E. GKT | T | CGLCSRLRRG | S | LY. GF | ADEI | GATKIALGHH | DDILET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| tr\|A0A2E0VG16\|A0A2E0VG16_9GAMM | | E. DKT | Y | CGLCSRLRRG | T | LY. GF | AEEI | GATKIALGHH | DDIET | LF | LN | LF | Y | G | N | L | K | A | M | PAKL | | | | |
| tr\|A0A2E8CCG6\|A0A2E8CCG6_9DELT | | E. SKT | F | CGLCSRLRRG | I | LY. NH | AVSI | GATKIALGHH | EDIVET | LF | LN | MF | Y | G | K | L | K | S | M | PAKL | | | | |
| tr\|A0A095VPL1\|A0A095VPL1_9GAMM | | E. GKT | T | CGLCSRLRRG | T | LY. GF | AEEI | GATRIALGHH | DDIVET | LF | LN | MF | Y | G | K | L | K | A | M | PAKL | | | | |
| tr\|A0A0N8KMU5\|A0A0N8KMU5_9CYAN | | E. GKT | M | CGLCSRLRRG | I | LY. RV | AEEI | GATKIALGHH | DDMVET | LF | LN | LF | H | G | R | L | K | A | M | PAKL | | | | |
| tr\|A0A1G0HAT3\|A0A1G0HAT3_9GAMM | | E. GKT | Y | CGLCSRLRRG | | | | | | | | | | | | | | | | | | | | |

tr|AOA0S2TB27|AOA0S2TB27_9GAMM E.NKTTY.CSLCSRLRRGSIY.SYAAKHGFSKIALGHHRDDLIQSLMMSILYNGEIKSMPPKLL

tr|AOA2E3UPR5|AOA2E3UPR5_9GAMM N.GKTTY.CGLCSRLRRGILY.NHATSVGADKIALGHHRDDLIETLFLNMFHGRISAMPPKLL

tr|AOA0K1PU12|AOA0K1PU12_9DELT E.GKTF.CSLCSRLRRGILY.RVAKEFGCTKIALGHHRDDLIQTLNLFNFAQGLGAMPPKLL

tr|AOA2W1MVY8|AOA2W1MVY8_9FLAO V.GKTT.CSLCSRLRRGNLY.TAAQNLGCKNKMIGHHRRDDIETFFLNLFAGKIDETMPKKY

tr|AOA2E7LLC8|AOA2E7LLC8_9GAMM D.GKTTY.CPICSLRLRRGILY.NRANVLGATKIALGHHRDDAVETLFLNMFYGKKMKSMPPKLL

tr|AOA1V3PAW7|AOA1V3PAW7_9GAMM A.GKTM.GITKIALGHHRDDIATLFFLNLFHQASLKMPPKLL

tr|AOA2A5WDX1|AOA2A5WDX1_9GAMM E.GKTTY.CGLCSRLRRGILY.NYADSIGADKIALGHHRDDIVETLFLNMFYGKKLKAMPPKLL

tr|AOA0W0X021|AOA0W0X021_9GAMM E.GKTTY.CSLCSRLRRGILY.RYAEHGFNFKIALGHHRDDLIRLTMMSILYNGDIRSMPPKLL

tr|AOA1G0IH91|AOA1G0IH91_9GAMM E.GKTTY.CSLCSRLRRGNLY.RYAIENKFNKIALGHHRDDCIQTLMSILYAGQIKSMPPKLL

tr|AOA0C2DGF4|AOA0C2DGF4_9DELT P.GKAFF.CAACSLRLRRGVLY.THAARLGCKNFKIALGHHRDDALETLNLFYTGKLOAMPKPY

tr|AOA2D5QFH6|AOA2D5QFH6_9GAMM D.GKTTY.CSLCSRLRRGILY.EFAKKIDANKIALGHHRDDIETLFLNMFYGKKLKAMPPKLL

tr|AOA2E4LJ98|AOA2E4LJ98_9GAMM S.GKTTY.CSLCSRLRRGILY.NYAEIEGADKIALGHHRDDIVETLFLNMFYGKKLKAMPPKLL

tr|AOA2E5DC90|AOA2E5DC90_9GAMM E.GKTF.CPICSLRLRRGVLY.KRAGVLGATKIALGHHRDDAVETLFLNMFYGKKLKSMPPKLL

tr|AOA2E5FWR7|AOA2E5FWR7_9GAMM P.GATM.CGLCSRLRRGILY.RYAREQGFNRIALGHHRDDIVETMFLNMFHGRMAAMPKLL

tr|AOA1G0IU32|AOA1G0IU32_9GAMM E.GKTTY.CSLCSRLRRGILY.TYAAQHGFNFKIALGHHRDDLIQTLMSILYSGQVRSMPPKLL

tr|AOA0F9U426|AOA0F9U426_9ZZZZ E.GKTT.CSLCSRLRRGNLY.NFADEIGATRMALGHHRDDIVETFFLNMFHGNLKMAMPKLL

tr|AOA2E6YYL5|AOA2E6YYL5_9GAMM T.GKTF.CPICSLRLRRGILY.TKAKEFGATKIALGHHRDDAVETLFLNMFYGKKMKTMPKLL

tr|AOA1H1PAT6|AOA1H1PAT6_9PSED E.GKTTY.CSLCSRLRRGNLY.TFADEIGATKMALGHHRDDIETFFLNMFYGKKLKAMPPKLL

tr|AOA2E8C6H5|AOA2E8C6H5_9GAMM E.GKTT.CSLCSRLRRGNLY.TFADEIGATKMALGHHRDDIVETFFLNMFYGNLKMAMPKLL

tr|AOA1H1SJ01|AOA1H1SJ01_9PSED E.GKTT.CSLCSRLRRGNLY.TFADEIGATKMALGHHRDDIVETFFLNMFYGNLKMAMPKLL

tr|AOA1G5P4B8|AOA1G5P4B8_9PSED E.GKTT.CSLCSRLRRGILY.TFADEIGATKMALGHHRDDMVETFFLNLFHGGTLKAMPKLL

tr|AOA2E0GTV8|AOA2E0GTV8_9GAMM E.GKTTY.CSLCSRLRRGNLY.RYAEHGFTKVALGHHRDDIETLMSILYGGQVRSMPPKLL

tr|AOA139SJ77|AOA139SJ77_9GAMM Q.GKTT.CSLCSRLRRGILY.DFAEEHGAASKIALGHHRDDIETFFLNLFYGRKLKAMPKLL

tr|AOA2E3MG92|AOA2E3MG92_9GAMM A.GKTTY.CSLCSRLRRGILY.RYAEQHGATKIALGHHRDDIVRTLMSILYNGEVRSMPPKLL

tr|AOA2G6Q111|AOA2G6Q111_9BACT D.GKTI.CSLCSRLRRGILY.TTARQKGCNKIALGHHRDDIETFMLNFKLYNGILKTMPKLL

tr|B8HNP7|B8HNP7_CYAP4 E.GKTM.CGLCSRLRRGILY.RVATEEGATKIALGHHRDDIVETLFLNLFAGQGLKAMPKLL

tr|AOA2E8XFZ6|AOA2E8XFZ6_9GAMM E.GKTF.CSLCSRLRRGILY.NYAESIGADKIALGHHRDDIVETLFLNMFYGKKLKAMPKLL

tr|AOA2D8QNY1|AOA2D8QNY1_9GAMM E.GKTTY.CGWCSRFRRGILY.KYARNHGYNKIALGHHRDDMVETXFLNMFHGGKLSMPPKLL

tr|AOA2N1WJ42|AOA2N1WJ42_9GAMM E.GKTT.CGLCSRLRRGILY.RFAENHGMTKIALGHHRDDIVETFFLNLFHGGKLSMPPKLL

| tr|K2ERR8|K2ERR8_9ZZZZ | | K.DKSY | .TCLCSRLRRGILY | .TFAKKH | GYNKIALGHHRDDIET | FFLNMFY | SGIISMPKLL |
| tr|AOA0K1XH68|AOA0K1XH68_9GAMM | | E.GKTT | .CSLCSRLRRGILY | .TFADEI | GATKMALGHHRDDIET | FFLNMFY | GTLKAMPKLL |
| tr|AOA1H2ES15|AOA1H2ES15_9PSED | | E.GKTT | .CSLCSRLRRGNLY | .TFADEI | GANKALGHHRDDIVET | FFLNMFY | GNLKAMPKLL |
| tr|AOA177QRA8|AOA177QRA8_9GAMM | | E.GKTTY | .CSLCSRLRRGILY | .RYAEEQ | GYNKVALGHHRDDMIR | TLLMSIFYN | GEIKSMPPKLL |
| tr|AOA254Q4L9|AOA254Q4L9_9PROT | | K.GATF | .CSLCSRLRRGILY | .DYAHNL | GFTKMALGHHRDDVVT | TLLNMFY | AGQTAMPKLL |
| tr|AOA2E6SWN3|AOA2E6SWN3_9FLAO | | E.GKTM | .CSLCSRLRRGILY | .SVAEEL | GCKNVALGHHRDDIVET | FFLNMFY | SGRIETMPKKY |
| tr|AOA2E9AK57|AOA2E9AK57_9GAMM | | E.GKTM | .CGLCSRLRRGILY | .RYAREN | GFNRIALGHHRDDIVET | MFLNMFH | GARMAGMPKLL |
| tr|AOA2D7F0H7|AOA2D7F0H7_9GAMM | | E.GKTTY | .CGWCSRFRRGILY | .KFAQRQ | GYNKIALGHHRDDIVET | FFLNLFY | GKKMKTMPKLL |
| tr|AOA2E1W4P8|AOA2E1W4P8_9FLAO | | E.GKTM | .CSLCSRLRRGILY | .SVAEEL | GCKNVALGHHRDDIMET | LFLNMFY | SGRIETMPKKY |
| tr|AOA2E5RQ39|AOA2E5RQ39_9FLAO | | E.GKTM | .CSLCSRLRRGILY | .SVAEEL | GCKNIALGHHRDDIMET | LFLNMFY | SGRIETMPKKY |
| tr|AOA2E2TWY6|AOA2E2TWY6_9GAMM | | E.GKTTY | .CSLCSRLRRGILY | .NYAEKN | GFNKIALGHHKDDLAES | LMSIFYQ | GEIISMPKLL |
| tr|AOA2D7KKV3|AOA2D7KKV3_9GAMM | | E.GKTM | .CGLCSRLRRGILY | .RFAEDN | GFNRIALGHHRDDIVET | LFLNMFY | SGRLKAMPKLL |
| tr|AOA148NAU8|AOA148NAU8_9GAMM | | E.GKTT | .CGLCSRLRRGVLY | .GFAEEH | GFTKIALGHHRDDIET | FFLNLFY | GGRKLKAMPKLL |
| tr|AOA0C1N9Q3|AOA0C1N9Q3_9CYAN | | E.GKTT | .CSLCSRLRRAILY | .RVASEE | GATKVALGHHRDDIET | LFLNMFY | AGKLLKAMPKLL |
| tr|AOA098LEV0|AOA098LEV0_9BACT | | E.GKTL | .CTLCSRLRRGILY | .TAAAKL | GATKIALGHHRDDIET | FFLNLFY | GCKMEAMPKPY |
| tr|AOA1Q7Z4V3|AOA1Q7Z4V3_9DELT | | E.GKTA | .CSVCSLRRRGILY | .SAAARQL | GCTKIALGHHRDDIVES | LLSMLF | TGKLRSMPPRL |
| tr|H5SHT9|H5SHT9_9GAMM | | E.GKTT | .CGLCSRLRRGILY | .GFAEAH | GFTKIALGHHRDDIVET | FFLNLFY | GGRKLKAMPKLL |
| tr|I4CAC3|I4CAC3_DESTA | | A.GTNP | .CSFCSRLRRGILY | .SYAARE | GWNKIALGHHRDDIVET | FFLNLFN | GQVKGMSPKLL |
| tr|AOA2E8MZV2|AOA2E8MZV2_9RICK | | G.GKTTY | .CSLCSRLRRGVLY | .DLARKF | GCKNVALGHHRDDIET | LFLMNTFY | SGQLASMAPHY |
| tr|AOA140K5Z4|AOA140K5Z4_9CYAN | | E.GKTM | .CSLCSRLRRGILY | .RVASEE | GATKIALGHHRDDIVET | LFLNMFH | GTLKAMPKLL |
| tr|AOA1Z9WCJ2|AOA1Z9WCJ2_9GAMM | | E.GKTF | .CGLCSRLRRGILY | .NYAESIG | GANKIALGHHRDDIVET | LFLNMFY | GCKLKAMPKLL |
| tr|V6LCA2|V6LCA2_9EUKA | | P.GTRT | .CSFCARLRRLGSL | .TYCKSQN | INKIALGHHRDDIVES | MLMSQLQ | NGRLWTQAPIY |
| tr|AOA2W1JZL5|AOA2W1JZL5_9CYAN | | E.GKTM | .CGLCSRLRRGILY | .RVANEE | GATKIALGHHRDDIET | LFLNMFY | AGRLKAMPKLL |
| tr|AOA2E3WDX3|AOA2E3WDX3_9PROT | | E.GKTF | .CSLCSRLRRGILY | .NHAEHM | GFNKIALGHHDDAIET | LFLNQFY | SGKISMPVVL |
| tr|AOA2E5HLE3|AOA2E5HLE3_9DELT | | P.NQTT | .CSLCSRLRRGILY | .NOQAHL | GATKIALGHHRDDIET | LFLNLFY | SGQLKAMPKLL |
| tr|AOA2W5TG65|AOA2W5TG65_9DELT | | P.GQTT | .CSLCSRLRRGILY | .TAAVDM | GCTKIALGHHRDDIET | LFLNQFF | AGTTATMPKLL |
| tr|AOA1G0GKM6|AOA1G0GKM6_9GAMM | | E.GQTY | .CSLCSRLRRGILY | .RYAAEK | GFNKIALGHHRDDIET | LFLMSILY | NGEIRSMPPKLL |
| tr|AOA150AGP8|AOA150AGP8_9BACT | | E.GKTM | .CSLCSRLRRGILY | .TAAEEL | GVTKIALGHHRDDIVET | LFLNMFY | SGKLEAMPPIY |
| tr|AOA1S1YYD9|AOA1S1YYD9_9BACT | | E.GKTM | .CSLCSRLRRGILY | .TAAEEL | GVTKIALGHHRDDIET | LFLNMFY | SGKLEAMPPIY |
| tr|A5EXQ4|TTCA_DICNV | | A.GKTM | .CSLCSRLRRGILY | .RYAEEH | GITKIALGHHKDDIET | FFLNLFY | TGRLKAMPKLL |
| tr|AOA1G0XP48|AOA1G0XP48_9GAMM | | E.GKTTY | .CSLCSRLRRGILY | .KYAEEH | NYNKIALGHHRDDIET | LFLMSLYN | GEIKSMPPKLL |
| tr|AOA1G0L2E0|AOA1G0L2E0_9GAMM | | A.PKTTY | .CSLCSRLRRGVLY | .TYAKEN | HFTKIALGHHRDDIES | LFLMSALY | SGEIRTMPKLL |
| tr|AOA1G0GM68|AOA1G0GM68_9GAMM | | E.GQTY | .CSLCSRLRRGILY | .RYAEEK | GFNKIALGHHRDDIET | LFLMSILYN | NGEIRSMPPKLL |
| tr|AOA1B8TZZ0|AOA1B8TZZ0_9FLAO | | E.GKTT | .CSLCSRLRRGILY | .EAAKDL | GCKNIALGHHRDDIET | FFLNLFY | AGKMETMPKPF |
| tr|AOA2D7K8M6|AOA2D7K8M6_9FLAO | | A.GKTM | .CGLCSRLRRGILY | .DCAREL | GCKNIALGHHRDDIET | FFLNLFY | SGKMETMPKPY |
| tr|AOA2M9DVU6|AOA2M9DVU6_9DELT | | E.GKTM | .CGLCSRLRRGILY | .RHAAAG | GMTKIALGHHRDDMVET | LFLNMFH | SGRIKGMPPKLL |
| tr|AOA2E2WLC4|AOA2E2WLC4_9GAMM | | E.GKTY | .CSLCSRLRRGILY | .RFAEEH | GFNKIALGHHRDDIET | LFLMSLY | SGQVKSMPPKLL |
| tr|AOA1J0KT95|AOA1J0KT95_9GAMM | | E.GKTT | .CGLCSRLRRGILY | .DFAEEH | NVTKIALGHHRDDIET | FFLNLFY | NGSIKSMPPKLL |
| tr|AOA1Q2SN26|AOA1Q2SN26_9GAMM | | E.GKTT | .CSLCSRLRRGILY | .GTAELK | GATKIALGHHRDDIATL | FFLNMFH | GTLKAMPKLL |
| tr|AOA1F9PKZ9|AOA1F9PKZ9_9DELT | | P.GSSY | .CSICARLFRGALY | .GVAAGSL | GCKNIALGHHSDDFIET | LFLNQFF | VGSLKSMASAM |
| tr|AOA2U2J834|AOA2U2J834_9FLAO | | E.GKTT | .CSLCSRLRRGILY | .EAAKDL | GCKNIALGHHRDDIET | FFLNLFY | AGKLETMPKPF |
| tr|U9W6P5|U9W6P5_9CYAN | | E.GKTM | .CGLCSRLRRGILY | .RVASEE | GVTKIALGHHRDDIVET | LFLNMFH | GGRKLKAMPKLL |
| tr|AOA1E7HZ03|AOA1E7HZ03_9DELT | | P.GTSTY | .CAFCSRLRRGALH | .TOAEKL | GCKNIALGHHRDDIET | LFLNQFY | GGLTAAKSAKL |
| tr|A2U287|A2U287_9FLAO | | E.GKTTY | .CSLCSRLRRGILY | .EAAKDL | GCKNIALGHHRDDIET | FFLNMFY | SGKLETMPKPF |
| tr|AOA1G0MC79|AOA1G0MC79_9DELT | | P.GSSY | .CSICARLFRGALY | .EVAQDM | GCKNIALGHHQDDFIET | LFLNQFF | VGSLKSMASAM |
| tr|AOA0M9CHH7|AOA0M9CHH7_9FLAO | | E.GKTT | .CSLCSRLRRGILY | .EAAKDL | GCKNIALGHHKDDIET | FFLNLFY | SGKLETMPKPF |
| tr|AOA1V5JXW0|AOA1V5JXW0_9DELT | | DPKSP | .CALCSRLRRGILY | .RLQDEL | GASALGHHKDDIVET | LFLRTFY | TGQLGAMPKRR |
| tr|AOA2E1TKX3|AOA2E1TKX3_9PROT | | E.GKTM | .CGLCSRLRRGILY | .KAAEHL | GANKIALGHHQDDIET | FFLNLFY | GQIKTMPKLL |
| tr|AOA2E4SAB6|AOA2E4SAB6_9FLAO | | E.GKTM | .CSLCSRLRRGILY | .DKAREL | GCKNIALGHHRDDIET | FFLNLFY | SGKMEAMPKPY |
| tr|AOA258F7U7|AOA258F7U7_9FLAO | | E.GKTT | .CSLCSRLRRGILY | .EAAARDL | GCKNIALGHHKDDIET | FFLNLFY | AGKMETMPKPF |
| tr|AOA0A8WQ54|AOA0A8WQ54_9DELT | | E.GSSY | .CSICARLFRGALY | .ELAQRFL | GCKNIALGHHKDDIET | FFLNQFF | VGSLKSMASAM |
| tr|X5JQR9|X5JQR9_9NOST | | E.GKTM | .CGLCSRLRRGILY | .RVATQE | GATKIALGHHRDDMVET | LFLNMFH | GGRKLKAMPKLL |
| tr|AOA1Z8QQJ8|AOA1Z8QQJ8_9BACT | | P.GKSY | .CSLCSRLRRDILY | .DSARNV | GCKNIALGHHREDDVET | FMLNLFY | SGKLGSMPPHY |
| tr|AOA2H1E976|AOA2H1E976_9FLAO | | E.GKTT | .CSLCSRLRRGILY | .EAAKDL | GNKIALGHHRDDIET | FFLNLFY | SGKLETMPKPF |
| tr|AOA1Z4RSZ1|AOA1Z4RSZ1_9CHRO | | E.GKTM | .CSLCSRLRRGILY | .RVAEED | GINKIALGHHRDDIVET | LFLNMFY | GGLTSMPPKLL |
| tr|AOA1M7N9R99|AOA1M7N9R99_9FLAO | | E.GKTT | .CSLCSRLRRGILY | .EAAKDL | GCKNIALGHHRDDIET | FFLNLFY | AGKMETMPKPF |
| tr|AOA1G0HBX4|AOA1G0HBX4_9GAMM | | E.GQTY | .CSLCSRLRRGILY | .HYAEEH | GFNKIALGHHRDDIET | LFLMSLYN | NGEIRSMPPKLL |
| tr|AOA1G0WYX2|AOA1G0WYX2_9GAMM | | E.GEITY | .CSLCSRLRRGILY | .RYAEEH | GFNKIALGHHRDDIET | LFLMSIFYN | NGEIRSMPPKLL |
| tr|AOA2E2NQ57|AOA2E2NQ57_9DELT | | E.GKTT | .CSLCSRLRRGILY | .NAAVEL | GCTKIALGHHRDDIET | LFLNLFY | GGLKAMPKRL |
| tr|AOA2E7CJC5|AOA2E7CJC5_9PROT | | A.GKTF | .CSLCSRLRRGILY | .NAAVEL | GCTKIALGHHKDDIET | LFLMNL | YSGVMTMPKLL |
| tr|AOA1L4BT26|AOA1L4BT26_9GAMM | | E.GKTTY | .CSLCSRLRRGNLY | .RYAKEH | KMDKILGHHRDDIES | LFLMSLYQ | GQIKSMPPKLL |
| tr|AOA1X1BF32|AOA1X1BF32_9GAMM | | E.GKTTY | .CSLCSRLRRGNLY | .RYAKEH | KMDKILGHHRDDIET | LFLMSLYQ | GQIKSMPPKLL |
| tr|AOA1J0KVR2|AOA1J0KVR2_9GAMM | | E.GKTTY | .CSLCSRLRRGNLY | .RYAKDH | NMDKIVILGHHRDDIES | LFLMSLYQ | GQIKSMPPKLL |
| tr|AOA2J6JE04|AOA2J6JE04_9DELT | | P.GSSY | .CAFCSRLRRGVLY | .TVAQEI | GCKNIALGHHKDDFIET | LFLNQFY | VGTLGAMSAKL |
| tr|AOA1F8V7G5|AOA1F8V7G5_9COXI | | E.GKIY | .CSLCSRLRRGILY | .RYAEEQ | GFNKIALGHHRDDIET | LFLMSIFYN | GQIKSMPPKLL |
| tr|AOA1G1FBX6|AOA1G1FBX6_9BACT | | E.GERP | .CSLCSRLRRGILY | .TOARVS | GCKNVALGHHRDDIET | LFLNQFY | GGRKLKAMPKLL |
| tr|AOA1G0E7F6|AOA1G0E7F6_9GAMM | | P.GKTF | .CSLCSRLRRGILY | .RYAKEH | GFKKIALGHHRDDIES | LFLMSVLY | SGEIRSQPPKLL |
| tr|AOA2E2TQ02|AOA2E2TQ02_9BACT | | P.GKSY | .CSLCSRLRRGILY | .DSARNF | GCKNIALGHHREDDVET | FMLNLFY | SGKLGSMPPHY |
| tr|AOA1G0EEH5|AOA1G0EEH5_9GAMM | | P.GKTY | .CSLCSRLRRGVLY | .TYAQHD | FKKIALGHHRDDIES | LFLMSLYQ | GQIKSMPPKLL |
| tr|AOA1F3U044|AOA1F3U044_9PROT | | K.DGVF | .CSLCSKLRRAILY | .DFAFDH | FTKMALGHHRDDIVET | SMNLFY | TGQLSTMPKLL |
| tr|AOA2T5R4N6|AOA2T5R4N6_9DELT | | P.GSSF | .CSICARLFRGVLY | .TLAQFN | GCKNIALGHHKDDVET | LFLNQFF | VGSLKAMAASAM |
| tr|AOA2D4SSF2|AOA2D4SSF2_9DELT | | T.GKATY | .CSLCSRLRRGILY | .NAAVDL | GCKNIALGHHRDDIET | LFLNLFY | GQIKSMPPKLL |
| tr|AOA2N6FFT5|AOA2N6FFT5_9DELT | | P.GTASY | .CSFCARLRRGILY | .TLAQDL | GCKNIALGHHKDDIET | LFLNQFY | VGSLKAMAASAM |
| tr|FOXZP6|FOXZP6_AURAN | | A.GKSY | .CSLCSRLRRGILY | .THAERR | GAGVALGHHRDDALET | LFLNMFH | GQIKSMPPKLL |

| | | | | | | | | | |
|--------------------------------|-----------|---------|----------------|---------------|--------------|------------|----------|--------------|------------|
| tr\|A0A1G0MSC8\|A0A1G0MSC8_9DELT | | P. GSSY | CSICSRLLRKGALY | .ETAQTL | CNKIALGHHQ | DDFIETLL | LNQFFV | GSLSKMSASM | |
| tr\|A0A099Y2Q8\|A0A099Y2Q8_9FLAO | | E. GKTT | CSLCSRLRRGTL | .EAAKDL | CNKIALGHHR | NDIILETF | LNFFFA | GKMETMPPKF | |
| tr\|A0A1F3QP09\|A0A1F3QP09_9BACT | | E. GKTT | CSLCSRLRRGRL | .TTAEELK | CNKIALGHHR | DDFIETFL | LNFFFA | GKLEAMPPKY | |
| tr\|A0A2N6FI42\|A0A2N6FT42_9DELT | | P. GSSY | CAF CARLRRCGLY | .TMADEL | CNKIALGHHL | DDFIETLL | LNQFFV | GSLKGMSPKL | |
| tr\|A0A2A4YJW7\|A0A2A4YJW7_9FLAO | | E. GKST | CSLCSRMRRGRL | .KTAKEI | GANKIALGHHR | DDIETFL | LNLFSS | GKLEAMPPKF | |
| tr\|A0A1G0H8I8\|A0A1G0H8I8_9GAMM | | E. GETY | CSLCSRLRRGNIY | .RYAEEN | GYNKVALGHHR | DDIIQTLT | MSILYS | GQIKSMPPKL | |
| sp\|Q3A6S7\|TTCA_PELCD | | P. GSSF | CAF CARLRRCVLY | .SVATEL | CNKIALGHHL | DDFVETLL | LNQFVY | GTLAAMSPKL | |
| tr\|A0A1H3VRW5\|A0A1H3VRW5_9DELT | | P. GTSY | CAF CARLRRCGLY | .SQAQEH | CNKVALGHHL | DDVIETLL | LNQFYA | GTLSAMSAKL | |
| sp\|Q6MLE7\|TTCA_BDEBA | | GGTF | CSLCSRLRRRALY | .DFAHAN | GFTKIALGHHR | DDVVHTAL | LNMFYV | GTTAAMPKKL | |
| tr\|A0A2N6E4U5\|A0A2N6E4U5_9DELT | | P. GSSY | CSF CARLRRCVLY | .SLADEL | CNKIALGHHL | DDFIETLL | LNQFVY | GTLAAMSPKL | |
| tr\|A0A1E7IG50\|A0A1E7IG50_9DELT | | P. GSSY | CAF CARLRRCGLY | .TOATELD | CNKIALGHHL | DDFIETLL | LNQFYA | GTLAAMSPKL | |
| tr\|A0A1G0GSV6\|A0A1G0GSV6_9GAMM | | E. GQTY | CSLCSRLRRGNIY | .RYAEEN | NFNKIALGHHR | DDIIQTLT | MSILYS | GQIKSMPPKL | |
| tr\|A0A2M7ZW17\|A0A2M7ZW17_9GAMM | | E. GQTY | CSLCSRLRRGNIY | .RYAEDN | GYNKVALGHHR | DDIIQTLT | MSVLYS | GQIKSMPPKL | |
| sp\|Q2A3F9\|TTCA2_FRATH | | E. GKTT | CGLCSRMRRGILY | .DFAEEN | NVTKVALGHHR | DDIIEFTF | LNLFYNG | GSIKAMPTKL | |
| tr\|I2AZ39\|I2AZ39_FRANT | | D. GKTT | CGLCSRMRRGILY | .DFAEEN | NI TKIALGHHR | DDIIEFTF | LNLFYNG | GSIKAMPAKL | |
| tr\|A0A097EM44\|A0A097EM44_9GAMM | | E. GKTT | CGLCSRMRRGILY | .DFAEEN | SVTKIALGHHR | DDIIEFTF | LNLFYNG | GSIKAMPAKL | |
| tr\|A0A1G0GGE7\|A0A1G0GGE7_9GAMM | | E. GETY | CSLCSRLRRGNIY | .RYAEEN | GNKIALGHHR | DDIIHTLL | MSIFYA | GQIKSMPPKL | |
| tr\|A0A0B5BJ72\|A0A0B5BJ72_9DELT | | P. GSSY | CSICARLKRKGLY | .TLAQRF | CNKIALGHHL | DDFVETLL | LNQFVY | GTLAAMSPRM | |
| sp\|Q39QC5\|TTCA_GEOMG | | P. GSSY | CSICARLKRKGVLY | .TLAQQH | CNKIALGHHL | DDFVETLL | LNQFFV | GTTLKAMAPRM | |
| tr\|A0A0C1TS20\|A0A0C1TS20_9DELT | | P. GSSY | CSICARLKRKGVLY | .TLAQKL | CNKIALGHHL | DDFVETLL | LNQFFV | GTTLKAMAPRM | |
| tr\|A0A1G5EMY4\|A0A1G5EMY4_9DELT | | D. GSKM | CALCARLRRGALY | .AHAAAN | GFSHALGHHM | DDVMVETL | LNLFYNG | GMMKGMPPKL | |
| tr\|A0A1G1H8I4\|A0A1G1H8I4_9BACT | | P. GDSP | CSLCSRLRRGRLY | .TOAAEL | GCAKIALGHHR | DDFIETLL | LNQFYNG | GKIKAMSPKL | |
| tr\|A0A1M6IOE4\|A0A1M6IOE4_MALRU | | P. NSSY | CAF CARLRRCGLY | .TLADEL | CNKIALGHHL | DDFIETLL | LNQFYNG | GTLAAMSPKL | |
| sp\|A9KE14\|TTCA_COXBN | | A. GKTY | CSLCSRLRRGILY | .RYAEEQ | GFSKIALGHHR | DDIIQTLT | MSVLYNG | QIRSMPPKL | |
| tr\|E8WQ56\|E8WQ56_GEOS8 | | P. NSSY | CSICARLKRGTLY | .TLAQQM | CNKIALGHHM | DDIIEFTL | LNQFFV | GSLSKMAPSM | |
| tr\|A0A1G0M695\|A0A1G0M695_9DELT | | A. NSSY | CSICARLKRKGLY | .GLAQRY | CNKIALGHHM | DDFIETLL | LNQFFV | GSLSKMAPSM | |
| tr\|A0A217SED0\|A0A217SED0_9FLAO | | E. GKTT | CSLCSRLRRGTL | .EAAKDL | CNKIALGHHR | NDIILETF | LNFFFA | GKLEAMPPKF | |
| tr\|K9RJ13\|K9RJ13_9CYAN | | E. GKTM | CSLCSRLRRGILY | .RVAREESA | TKVALGHHR | DDIVETLF | LNMFHS | SRSLKAMPPKL | |
| tr\|A0A1V5GZG2\|A0A1V5GZG2_9DELT | | DPEKSP | CALCSRLRRGRLY | .TLAQER | GVSSIALGHHL | DDIIEFTF | LRFCFY | GTGICAMAPAR | |
| tr\|A0A1Q3SMU5\|A0A1Q3SMU5_9GAMM | | E. GSTY | CSLCSRLRRGILY | .TYAEQH | GYNKIALGHHR | DDIIETLL | MSIFYNG | QIRSMPPKL | |
| tr\|A0A192X0U1\|A0A192X0U1_9BACT | | P. GGPN | E. GDAY | CRVCSRLRRGILY | .DAAEKL | CNKIALGHHR | DDALETLL | MNLFSS | GKLOAMPASY |
| tr\|A0A1E7HUG3\|A0A1E7HUG3_9DELT | | P. DSSY | CAF CARLRRCVLY | .AVADEL | CNKIALGHHH | DDFIETLL | LNQFFV | GSLSKMAPSKL | |
| tr\|A0A2G1ZVL9\|A0A2G1ZVL9_9COXI | | E. GKTY | CSLCSRLRRGNIY | .RYAEDN | GFNKIALGHHR | DDIIQTLT | MSILYNG | QICSMPPKL | |
| tr\|A0A258VXM1\|A0A258VXM1_9PROT | | E. GKAY | CTLCSKFRRAILY | .DHAATSL | GISKIALGHHR | DDIIEFTL | LNMFYNG | GHSISMPPKL | |
| tr\|A0A1G9TDQ4\|A0A1G9TDQ4_9DELT | | P. GSKY | CSF CARLRRCVLY | .TLADEL | CNKIALGHHL | DDFIETLL | LNQFYNG | GTLAAMSPKL | |
| tr\|A0A1L3GPX7\|A0A1L3GPX7_9DELT | | P. GSSY | CSF CARLRRCVLY | .SVMDL | CNKIALGHHH | DDFIETLL | LNQFFV | GTTLKAMSPKL | |
| tr\|A0A2W4KM9\|A0A2W4KM9_9BACT | | P. RKSV | CSF CARLRRCALY | .TYAEH | GYNKIALGHH | DDIETVL | NMNFYS | GSLSKMAPHY | |
| tr\|B7G797\|B7G797_PHATC | | P. GKSF | CTVCSRLRRGILY | .STALTTL | CNKIMLGHHH | DDCLETLL | LNMIHT | GQTKAMPARY | |
| sp\|A5GBX4\|TTCA_GEOUR | | P. DSSY | CSICARLKRKGVLY | .GLAQRY | CNKIALGHHM | DDFIETLL | LNQFFV | GSLSKMAPSM | |
| sp\|B9M1Y2\|TTCA_GEODF | | L. DSSY | CSICARLKRKGLY | .ALAQHN | CNKIALGHHM | DDFIETLL | LNQFFV | GALKAMAPGM | |
| tr\|A0A2N6BQY4\|A0A2N6BQY4_9DELT | | P. GTTY | CSF CARLRRCGLY | .TFATEHRY | NKIALGHHH | DDIIEFTL | MAQFFT | GVISMPVVL | |
| tr\|A0A1W9UI33\|A0A1W9UI33_9DELT | | P. GSSY | CAF CARLRRCALY | .TCA SRLK | SKIALGHHL | DDIETLL | LNQFYS | GTIAGMSPKL | |
| tr\|Q1K2G5\|Q1K2G5_DESA6 | | P. GSSY | CAF CARLRRCALY | .TTAQKL | CNKVALGHHL | DDHIEFTL | LNQFYS | GTISAMSPKL | |
| tr\|A0A2N6ESB2\|A0A2N6ESB2_9DELT | | P. GSSY | CAF CARLRRCALY | .TTAAQL | CNKVALGHHL | DDHIEFTL | LNQFYS | GTISAMSPKL | |
| tr\|A0A1Y6BUV3\|A0A1Y6BUV3_9PROT | | E. GKAF | CGLCSRLRRGILY | .NYAAEH | GFNKIALGHHR | DDIIEFTL | LNMFNG | NRISMPKKL | |
| tr\|A0A2E3NDA3\|A0A2E3NDA3_9DELT | | P. GKSY | CGLCSRMRRGALY | .AFAAEQ | GFTKIALGHHR | EDNLETF | LNLFSS | GVGVGSMPPKL | |
| tr\|A0A2D7NNW1\|A0A2D7NNW1_9BACT | | P. GKSY | CSLCSRLRRGILY | .DSARKFN | CNKIALGHHR | DDIVLETF | MNLFSS | GQLSMPPKL | |
| tr\|A0A0S8BFY2\|A0A0S8BFY2_9PROT | | D. GKTY | CSLCSRLRRGILY | .RYAKDH | GYNKVALGHHR | DDIIETLL | MSILYS | GQIRSMPPKL | |
| tr\|A0A2E8HZL3\|A0A2E8HZL3_9PROT | | E. GKTY | CGLCSRLRRGILY | .NYAADN | GYSKIALGHHR | DDMNLETF | LNMFYNG | GRISMPKKL | |
| tr\|A0A2G2L3Z8\|A0A2G2L3Z8_9GAMM | | E. GKTT | CSLCSRLRRGILY | .NWA EKN | NI TKIALGHHR | DDMVETLF | LNMFSS | GKLSMPPAKL | |
| tr\|A0A2D4RZ44\|A0A2D4RZ44_9GAMM | | E. GRIT | CGLCSRLRRGTL | .AFADII | GCTKVALGHHR | DDIVETLF | LNLFHG | GAFAAMPKKL | |
| tr\|A0A0D6ETW7\|A0A0D6ETW7_9PROT | | S. GKTT | CSLCSRLRRGILY | .RTAKELN | INKIALGHHR | DDIVETLF | LNMFSS | GSKLKAMPPKL | |
| tr\|A0A2N6G8V8\|A0A2N6G8V8_9GAMM | | E. GKTT | CSLCSRLRRGILY | .RVASEL | GASKIALGHHR | DDIVETLF | LNMFSS | GAKLKAMPPKL | |
| tr\|A0A2H9SMD1\|A0A2H9SMD1_9GAMM | | E. GKTY | CSLCSRLRRGILY | .RYAE EK | GFNKIALGHHR | DDIIRTL | MSIFYNG | QIRSMPPKL | |
| tr\|A0A2E9JDQ9\|A0A2E9JDQ9_9GAMM | | E. GKTY | CALCSRLRRGIFY | .NYAESI | GADKIALGHHR | DDIVETLF | LNMFSS | GKLSKAMPKKL | |
| tr\|A0A2E6EJ87\|A0A2E6EJ87_9RICK | | E. DATY | CSLCSRLRRGILY | .NAAEEL | GSKIALGHHG | DDAVETLF | MNMFFG | GTQLKTPAWL | |
| tr\|A0A2E7CSE6\|A0A2E7CSE6_9FLAO | | E. GKTM | CSLCSRLRRGTL | .DFA RGN | HCKNKIALGHHR | EDDLETF | LNLFSS | GKMETMPPKY | |
| tr\|A0A2I2DP53\|A0A2I2DP53_9FLAO | | E. GKTT | CSLCSRLRRGTL | .EAAKNL | KCNKIALGHHR | NDIIEFTF | LNFFFA | GKLEMTMPKF | |
| tr\|A0A1M6CGK2\|A0A1M6CGK2_9FLAO | | E. GKTT | CSLCSRLRRGTL | .EAAKDL | CNKIALGHHR | NDIILETF | LNFFFA | GKLEMTMPKF | |
| tr\|A0A2E4V0Z3\|A0A2E4V0Z3_9FLAO | | E. GKTM | CSLCSRLRRGTL | .DLARDLN | CNKIALGHHM | DDIIEFTY | LNLFSS | GKMEAMPPKY | |
| tr\|A0A2S7WWD7\|A0A2S7WWD7_9FLAO | | E. GKTT | CSLCSRLRRGTL | .EAAKDL | CNKIALGHHR | NDIILETF | LNFFSS | GKLEMTMPKF | |
| tr\|A0A1Y0MU77\|A0A1Y0MU77_9FLAO | | E. GKTT | CSLCSRLRRGTL | .EAAKDL | CNKIALGHHH | KNDIIEFTF | LNFFFA | GKMETMPPKF | |
| tr\|A0A1B8U105\|A0A1B8U105_9FLAO | | E. GKTT | CSLCSRLRRGTL | .EAAKDL | CNKIALGHHR | NDIILETF | LNFFFA | GKMETMPPKF | |
| tr\|A0A2E3Y167\|A0A2E3Y167_9FLAO | | X. GKTM | CSLCSRLRRGTL | .DEARELN | CNKIALGHHM | DDIIEFTY | LNLFSS | GKLEAMPPKY | |
| tr\|A0A1L4BS83\|A0A1L4BS83_9GAMM | | E. GKTT | CGLCSRMRRGILY | .DFAEEN | GCTKIALGHHR | DDIIEFTF | LNIFYNG | GTIKAMPPKL | |
| tr\|A0A246Q4W5\|A0A246Q4W5_9BURK | | E. GKTM | CSLCSRLRRGILY | .RVADEL | GCTKIALGHHR | DDILGTFF | LNMFYNG | GKLSKAMPKKL | |
| tr\|W8X665\|W8X665_CASDE | | E. GKTT | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILATFF | LNLFYNG | GRMKAMPKKL | |
| tr\|A0A2U1CQ90\|A0A2U1CQ90_9BURK | | E. GKTM | CSLCSRMRRALY | .RVASEL | GATKIALGHHR | DDIIATFF | LNLFYNG | GRMKAMPKKL | |
| tr\|WOPLA6\|WOPLA6_9BURK | | E. GKTT | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDIIATFF | LNLFYNG | AAKLKSMPKKL | |
| tr\|A0A0K8P592\|A0A0K8P592_IDESA | | E. GQTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDMVQTLF | MNMFFG | GRMKGMPPKL | |
| tr\|A0A225MGV7\|A0A225MGV7_9BURK | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNLFYNG | GRMKAMPKKL | |
| tr\|A0A1W6Z3Y4\|A0A1W6Z3Y4_9BORD | | O. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNLFYNG | GKLSKAMPKKL | |
| tr\|A0A2M9GTQ4\|A0A2M9GTQ4_9BURK | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNLFYNG | GKLSKAMPKKL | |
| tr\|A0A261TJ55\|A0A261TJ55_9BORD | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDIIATFF | LNLFYNG | GKTKAMPKKL | |
| tr\|A0A1M5TG54\|A0A1M5TG54_9BURK | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNLFYNG | GRMKAMPKKL | |
| tr\|V8FRL7\|V8FRL7_9BURK | | E. GKTT | CSLCSRLRRGILY | .RVANEL | GCTKIALGHHR | DDIIATFF | LNLFYNG | AAKLKTMPKKL | |
| tr\|A0A261S3A1\|A0A261S3A1_9BORD | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GCTKIALGHHR | DDILGTFF | LNMFYNG | GKLSKAMPKKL | |
| tr\|A0A157SL10\|A0A157SL10_9BORD | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNLFYNG | GKLSKAMPKKL | |
| tr\|A0A261W8G2\|A0A261W8G2_9BORD | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDIIATFF | LNLFYNG | GKLSKAMPKKL | |
| tr\|F4GTM2\|F4GTM2_PUSTT | | E. GKTT | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNLFYNG | GRMKAMPKKL | |
| tr\|A0A1F4NDN1\|A0A1F4NDN1_9BURK | | E. GKTM | CSLCSRLRRGILY | .RVAKEL | GCTKIALGHHR | DDIIQTLF | LNMFSS | GAKLKGMPPAKL | |
| tr\|A0A1H8E7G5\|A0A1H8E7G5_9BURK | | E. GKTM | CSLCSRLRRGILY | .TVARRL | CNKIALGHHR | DDIVATFF | LNMFSS | GAKLKSMPPKL | |
| tr\|A0A2X4JTT9\|A0A2X4JTT9_BORPP | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNLFYNG | GKLSKAMPKKL | |
| tr\|A0A146ATC2\|A0A146ATC2_9BORD | | E. GKTM | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNLFYNG | GKLSKAMPKKL | |
| tr\|A0A193GK23\|A0A193GK23_9BORD | | E. GRMT | CSLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDILGTFF | LNMFYNG | GKLSKAMPKKL | |
| tr\|A0A1P8JSG9\|A0A1P8JSG9_9BURK | | E. GKTT | CGLCSRLRRGILY | .RVASEL | GATKIALGHHR | DDMLQTLF | LNMFSS | GKLSKAMPKKL | |
| tr\|A0A1F9FMJ1\|A0A1F9FMJ1_9DELT | | E. GQAY | CFLCARLRRGILY | .SAAERL | CNKIALGHHR | DDGLETL | LNLCYAG | LQAMPARY | |
| tr\|A0A0Q8M6U1\|A0A0Q8M6U1_9GAMM | | A. GKTM | CSLCSRLRRGALY | .TWA AANS | ITKIALGHHR | DDIIATFF | LNMFYNG | QAQLKAMPKKL | |
| tr\|A0A2M9E118\|A0A2M9E118_9GAMM | | E. GKTM | CSLCSRLRRGALY | .TYAAEH | GFTKIALGHHR | DDMVATFF | LNMFSS | HAKLSGMPKKL | |
| tr\|A0A2W4TF88\|A0A2W4TF88_9GAMM | | E. GKTM | CSLCSRLRRGALY | .QWAKDH | GFTKIALGHHR | DDVLATFF | MNLFSS | HAKLATMPKKL | |
| tr\|A0A023NWG5\|A0A023NWG5_9GAMM | | E. GKTM | CSLCSRLRRGALY | .HWA AAN | GFTKIALGHHR | DDIIIGTLF | LNLFYNG | QAQLKAMPKKL | |
| tr\|A0A0G9GZZ8\|A0A0G9GZZ8_9GAMM | | E. GKTM | CSLCSRLRRGALY | .HWA AAN | GVSKIALGHHR | DDILGTFF | LNLFYNG | QAQLKAMPKKL | |
| tr\|A0A0U1PC50\|A0A0U1PC50_9GAMM | | A. GKTM | CSLCSRLRRGALY | .TYAEAN | GFTKIALGHHR | DDIVATLF | LNMFYNG | HGSLKAMPKKL | |
| tr\|A0A1E4PK74\|A0A1E4PK74_9GAMM | | A. GKTM | CSLCSRLRRGALY | .QWAAEN | GISKIALGHHR | DDILGTFF | LNLFYNG | QAQLKAMPKKL | |
| tr\|A0A1E4NQ34\|A0A1E4NQ34_9GAMM | | E. GKTL | CSLCSRLRRGALY | .AFABER | GFNKIALGHHR | DDIIATFF | LNLFHG | GTSLKAMPKKL | |
| tr\|A0A2E2JEB1\|A0A2E2JEB1_9GAMM | | E. GKTM | CSLCSRLRRGALY | .TFABAG | GFTKIALGHHR | DDIVATFF | LNMFHG | GRLAAMPKKL | |
| tr\|T1ATA2\|T1ATA2_9ZZZZ | | E. GRTL | CSLCSRLRRGALY | .QHAGAA | GFNKIALGHHR | DDIIATFF | LNLFSS | GKLSKAMPKKL | |
| tr\|A0A1V3QE62\|A0A1V3QE62_9GAMM | | A. GKTM | CSLCSRLRRGALY | .SWA AAN | GISKIALGHHR | DDIIATFF | LNMFYNG | QAQLKAMPKKL | |
| tr\|A0A0Q9QGY0\|A0A0Q9QGY0_9GAMM | | Q. GKTM | CSLCSRLRRGALY | .TWA AAN | GITKIALGHHR | DDIIATFF | LNLFHG | QAQLKAMPKKL | |
| tr\|A0A127FBR4\|A0A127FBR4_9GAMM | | E. GKTM | CGLCSRMRRGALY | .RYA AEN | GITKVALGHHR | DDIVETLF | LNMFSS | GKLSKAMPKKL | |
| tr\|A0A1I4VM85\|A0A1I4VM85_9GAMM | | E. GRTL | CSLCSRLRRGALY | .EFA ANN | GFNRIALGHHR | DDIVETLF | LNLFHG | QAQLKAMPKKL | |
| tr\|K8GM74\|K8GM74_9CYAN | | E. GKTL | CSLCSRLRRGILY | .QVASEE | GATKIALGHHR | DDIIEFTL | LNLFHT | GQIKAMPKKL | |
| tr\|A0A2T1CSL9\|A0A2T1CSL9_9CYAN | | A. GKTM | CGLCSRLRRGILY | .RVAAEE | GINKIALGHHR | DDIIEFTL | LNMFYNG | GKLSKAMPKKL | |

tr|A0A099CZD4|A0A099CZD4_9GAMM E. GAT T . CGLCSRLRRGSLY . TWAAN G I T K I A L G H H G D D L V A T L F L N L F F Q A S L K S M P P K L
tr|A0A0S8FJD6|A0A0S8FJD6_9GAMM E. GKT T . CGLCSRLRRGALY . TFAAEQ G F T K I A L G H H A D D I M E T L F L N L F F G K L K A M P P K L
tr|A0A2E2VRK2|A0A2E2VRK2_9GAMM E. GKT T . CSLCSRLRRGTLY . SWAANN N I S K I A L G H H R D D I L E T M M L N L F F S G Q L K A M P P K L
tr|A0A2W4RZH5|A0A2W4RZH5_9PROT E. GRM T . CSLCSRLRRGALY . RYAAGN G I T R I A L G H H R D D I V E T F F L N L F F G G R L K A M A P P K L
tr|A0A1V4GN33|A0A1V4GN33_9GAMM E. GKT Y . CSACSRLLRRGSLY . GFAKQI G A T K V A L G H H R D D I M A T F F L N L F H G S L K A M P P K L
tr|A0A211RJX7|A0A211RJX7_9GAMM E. GKT Y . CSACSRLLRRGSLY . GFAKQI G A T K V A L G H H R D D I M A T F F L N L F H G S L K A M P P K L
tr|A0A2K0XWS5|A0A2K0XWS5_9GAMM E. GKT Y . CSACSRLLRRGSLY . GFAKQI G A T K V A L G H H R D D I L A T F F L N L F H G S L K A M P P K L
tr|A0A2J9E0W4|A0A2J9E0W4_9GAMM E. GKT Y . CSACSRLLRRGSLY . GFAKQI G A T K I A L G H H R D D I L A T F F L N L F H G S L K A M P P K L
tr|A0YCA3|A0YCA3_9GAMM E. GKT T . CGLCSRLRRGTLY . SFAETI G A T K I A L G H H R D D M V E T L F L N M F Y G S R L K S M P P K L
tr|F3LGC1|F3LGC1_9GAMM E. GKT T . CGVCSRLRRGTLY . GFAEEI G A T K V A L G H H K D D I V E T L F L N M F Y G R L K A M P P K L
tr|A0A2G6D109|A0A2G6D109_9PROT E. GKT M . CGLCSRLRRGTLY . SFAEEI N A N K V A L G H H K D D I V E T M F L N M F Y G S R L S G M P P K L
tr|L2F7Z8|L2F7Z8_9GAMM E. GKT Y . CSACSRLLRRGSLY . GFAKQI G A T K I A L G H H R D D I M A T F F L N L F H G S L K A M P P K L
tr|A0A1T0CIB6|A0A1T0CIB6_9GAMM E. GKT Y . CSACSRLLRRGSLY . GFAKQI G A T K I A L G H H R D D I L A T F F L N L F H G T L K A M P P K L
tr|A0A1Q3YDX0|A0A1Q3YDX0_9BURK E. GRM T . CSLCSRLRRGILY . RVADEL G A T R I A L G H H R D D I L E T F F L N L F F G K L K A M P P K L
tr|A0A2I2KGJ9|A0A2I2KGJ9_9PROT E. GKT T . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M L E T L F L N M F F G K L K G M P P K L
tr|A0A059KNT0|A0A059KNT0_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A N K I A L G H H R D D F L G T V F L N L F F Q G R L K G M P P K L
tr|A0A2D9EMR9|A0A2D9EMR9_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L A T F F L N L F Y G G R M K G M P P K L
tr|D5WYLO|D5WYLO_THIK1 E. GKT T . CGLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T F F L N L F F G G T L K G M P P K L
tr|A0A2N4UHD8|A0A2N4UHD8_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L G T F F L N L F Y G R M K A M P P K L
tr|A0A231HMA8|A0A231HMA8_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L A T F F L N L F Y G G R M K G M P P K L
tr|A0A127PZQ3|A0A127PZQ3_9BURK E. GKT T . CSLCSRLRRGILY . RVADEL G A T K V A L G H H R D D I M E T F F L N M F F G K L K S M P P K L
tr|A0A1L5XXU0|A0A1L5XXU0_9XANT A. GKT M . CSLCSRLRRGALY . AYAAH G V T K I A L G H H R D D I V A T F F M N L F H H A R L A A M A P P K L
tr|E6PW05|E6PW05_9ZZZZ E. GKT L . CSLCSRLRRGILY . RVADEL G A T R I A L G H H R D D I L Q T F F L N L F H G Q L K A M P P K L
tr|A0A259PCA8|A0A259PCA8_9BURK E. GKT M . CSLCSRLRRGILY . RLAGE L G A T K I A L G H H R D D I L Q T F F L N M F F G Q L K G M P P K L
tr|J3D2W3|J3D2W3_9BURK E. GKT T . CALCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T F F L N M F F G K L K G M P P K L
tr|A0A1C3H6K4|A0A1C3H6K4_9GAMM E. GKT M . CSLCSRLRRGILY . TYAKQF G M T K I A L G H H K F D I M E T F F L N L F H G Q L K A M P P K L
tr|A0A1Q3XG69|A0A1Q3XG69_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L A T F F M N M F Y G Q L K S M P P K L
tr|A0A2V1K2N5|A0A2V1K2N5_9BORD E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L G T F F L N L F Y G K M K A M P P K L
tr|A0A0G3BIT1|A0A0G3BIT1_9BURK E. GKT M . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D M L Q T F F L N M F F G K L K G M P P K L
tr|A0A2U2N809|A0A2U2N809_9GAMM E. GQTA . CSLCSRLRRGILY . GTARE L G A T R I A L G H H R D D I L E T F F L N L F Y G R L A A M P P K L
tr|A0A1U9K1B5|A0A1U9K1B5_9BURK E. GKT Y . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L A T F F L N L F Y G R L K A M P P K L
tr|A0A272ZE66|A0A272ZE66_9RHOO E. GKT T . CSLCSRLRRGILY . RTASE L G A T K I A L G H H R D D I L E T F F L N M F F G K L K A M P P K L
tr|C3X5M8|C3X5M8_OXAFO E. NKPV . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M V L E T F F L N L F Y G S K I K S M P P K L
tr|A0A2W4M0X6|A0A2W4M0X6_9PROT E. GRM T . CGLCSRLRRGALY . RFAAEH G M T K I A L G H H R D D I V E T L F L N M F F G K L K A M P P K L
tr|A0A2G4J906|A0A2G4J906_9BURK E. GKT T . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L G T F F L N L F Y G K L K A M P P K L
tr|A0A1J4S131|A0A1J4S131_9BURK A. GKT M . CSLCSRLRRGILY . GVADR L K I T K I A L G H H R D D M L Q T F F L N L F F A G K L K G M P P K L
sp|A1WHW6|TTCA_VERTI E. GKT T . CSLCSRLRRGILY . RVADEL G C T K I A L G H H R D D I L Q T L L N M F F G K M K S M P P K L
tr|E6UVL9|E6UVL9_VARPE E. GKT T . CGLCSRLRRGILY . RVADEL G A T K V A L G H H R D D M L Q T F F L N M F F A G K L K S M P P K L
tr|A0A2X1UQ14|A0A2X1UQ14_9BURK E. GKT T . CSLCSRLRRGILY . RVAEEF G C N K I A L G H H R D D I L A T F F L N L F Y A A K L K S M P P K L
tr|A0A1J1E0T5|A0A1J1E0T5_LYSEN E. GKT M . CSLCSRLRRGALY . TYAEQ G F T K I A L G H H R D D I V A T F F L N L F F H A K L S G M P P K L
tr|A0A0S4P2H4|A0A0S4P2H4_9BURK E. GKT T . CSLCSRLRRGILY . RVADEL G C N K I A L G H H R D D I L E T F F L N M F F G K L K A M P P K L
tr|R7I1J5|R7I1J5_9BURK S. GQHI . CSLCSRLRRGILY . TTADKL G L T K I A L G H Q M D D I V S T L M L N M F F G Q M K G M P P V L
tr|F1VXA8|F1VXA8_9BURK E. GKT T . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T F F L N M F F G K L K S M P P K L
tr|A0A1H9Z341|A0A1H9Z341_NITER E. GKT T . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L E T F F L N M F F G K L K A M P P K L
tr|V4XY05|V4XY05_9PROT A. GKT M . CSLCSRLRRGILY . RVADEL G A C N K I A L G H H R D D I L Q T L L N M F F G A C L K A M P A P K L
tr|A0A1F2T4S5|A0A1F2T4S5_9BACT D. GATP . CSLCARLRRGVLY . RISEKV G A N K I A L G H H A D D I E T L L L N L F F A G L K A M P A P K L
sp|Q0AA41|TTCA_ALKEH E. GKT K . CSLCSRLRRGILY . GAAEEM G C S K I A L G H H R D D I L E T F F L N L F Y G R L A A M P P K L
tr|A0A147GW72|A0A147GW72_9BURK E. GKT T . CGLCSRLRRGILY . RVADEL G A T K V A L G H H R D D I L A T F F L N M F F A A K L K A M P P K L
tr|A0A1F4HB56|A0A1F4HB56_9BURK E. GKT L . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M L Q T F F L N M F F A A K L K A M P P K L
tr|A0A2R4XML8|A0A2R4XML8_9BORD E. GKT T . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L G T F F L N L F F A A R L K A M P P K L
tr|A0A0Q7D0U2|A0A0Q7D0U2_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M L Q T F F L N M F F G A K L K G M P P K L
tr|H5WKR2|H5WKR2_9BURK E. GKT L . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M V V T L L N M F F G S R L K S M P P K L
tr|A0A1G4AY92|A0A1G4AY92_9GAMM E. GKT M . CSLCSRLRRGALY . THAAEH G F T K I A L G H H R D D L V A T F F L N L F F H A K L S G M P P K L
tr|A0A0N1AQX3|A0A0N1AQX3_9PROT E. GQTM . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M V V T M L N M F F G H R L K G M P A P K L
tr|A0A2M8VQK0|A0A2M8VQK0_9BURK E. GKT T . CGLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T L M L N M F F A G K L K G M P P K L
sp|B1XSG8|TTCA_POLNS D. GKT T . CGLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T L M L N M F Y A G K L K G M P P K L
tr|A0A0Q4Y4D9|A0A0Q4Y4D9_9BURK E. GKT T . CGLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L Q T L L N M F F A A K L K S M P P K L
tr|D8PAI7|D8PAI7_9BACT E. GQTT . CSLCSRLRRGILY . RLATE L G A T K I A L G H H R D D I L E T L L L N L F T G K M A M P P K L
tr|A0A2W4TTJ2|A0A2W4TTJ2_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L Q T L L N M F F G A R L K G M P P K L
tr|F5XXJ8|F5XXJ8_RAMTT E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L Q T F F L N M F F G K L K A M P P K L
tr|A0A1J5S2E4|A0A1J5S2E4_9ZZZZ P. GKT T . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L E T F F L N M F F G K L K A M P P K L
tr|A0A149VSF2|A0A149VSF2_9PROT A. GKT T . CSLCSRLRRGILY . RSAEL K A T K I V L G H H Q D D I L Q T F F L N L F Y G R L K G M P A P K L
tr|A0A1T5KK47|A0A1T5KK47_9GAMM E. GKT M . CSLCSRLRRGALY . AHAQEA G F T K I A L G H H R D D L V N T F F L N L F H H A K I A G M P P K L
tr|A0A1J5QH13|A0A1J5QH13_9ZZZZ E. GSTM . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L Q T F F L N L F H G K L K G M P P K L
tr|A0A239BRC0|A0A239BRC0_9BURK E. GKT T . CALCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T F F L N M F F G A K L K G M P P K L
tr|A0A2N2UY70|A0A2N2UY70_9PROT E. GKT T . CSLCSRLRRGVLY . RVADEL G A T R I A L G H H R D D I L Q T F F L N M F F A G K L K A M P P K L
tr|A0A1D2TFZ7|A0A1D2TFZ7_9BURK E. GRM T . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T F F L N M F F G K L K G M P P K L
tr|A0A0E3UN32|A0A0E3UN32_9GAMM E. GKT M . CSLCSRLRRGALY . SYAAAH G F T K I A L G H H R D D I V A T F F L N L F H H A K L S G M P P K L
tr|A0A1G3HJ33|A0A1G3HJ33_9RHOO E. GKT T . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L Q T F F L N M F F G K L K S M P P K L
tr|A0A1D2SHY1|A0A1D2SHY1_9BURK E. GRM T . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T F F L N M F F G K L K A M P P K L
tr|A0A0S8AXD2|A0A0S8AXD2_9PROT E. GKT T . CSLCSRLRRGILY . RVADEL G A T R I A L G H H R D D I V A T F F L N L F H G K L K G M P P K L
tr|A0A2S9H4F0|A0A2S9H4F0_9BURK E. GKT T . CSLCSRLRRGILY . RVADEL G A N K I A L G H H R D D I L E T F F L N M F F G A K I K G M P A P K L
tr|A0A0Q5YU64|A0A0Q5YU64_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L Q T F F L N M F F G K L K G M P P K L
tr|A0A127JUC5|A0A127JUC5_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T R I A L G H H R D D I L Q T F F L N M F F G K L K G M P P K L
tr|A0A0Q5ISN8|A0A0Q5ISN8_9DEIO V. GKT T . CALCSRLRRGALY . AHARR L G A T K I A L G H H R D D I L E T F F M N L F F G A R L K A M P P K L
tr|A0A149W1G2|A0A149W1G2_9PROT A. GKT T . CSLCSRLRRGVLY . RTAKVL G A N K I A L G H H R D D M V E T F F L N L F H G R L K G M P P K L
tr|A0A1Y2R1U1|A0A1Y2R1U1_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T R I A L G H H R D D I L Q T L L N M F F G A K L K G M P P K L
tr|A0A0S4LKC6|A0A0S4LKC6_9BACT E. GQTT . CSLCSRLRRGILY . RIAGE L G A T K I A L G H H R D D I V E T L F L N L F Y T G K L K A M P P K L
tr|A0A2N2TX36|A0A2N2TX36_9PROT E. GKT T . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L E T F F L N L F Y G K L K A M P P K L
tr|A0A023Y8A4|A0A023Y8A4_9GAMM E. GRM T . CSLCSRLRRGALY . RHAEN G F S K I A L G H H R D D S V A T F F L N L F H H A K L S A M P P K L
tr|A0A1E4IL97|A0A1E4IL97_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M V V T L L N M F F G S R L K S M P P K L
tr|A0A1C9V9X4|A0A1C9V9X4_9BURK E. GKT L . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M L Q T L L N M F F G A K L K G M P A P K L
tr|A0A2U1RUV0|A0A2U1RUV0_9PROT E. GKT M . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L E T F F L N L F H N G K L K A M S P P K L
sp|A7H8W2|TTCA_ANADF E. GKT T . CPVCSRLRRGVLY . NAAAE M G C T K I A L G H H R D D L V E T F F L S A L Y S G A L K S M P P K L
tr|A0A2S7DIN9|A0A2S7DIN9_9XANT A. GKT L . CSLCSRLRRGALY . AYAAH G V T K I A L G H H R D D I V A T F F M N L F H H A R L A A M A P P K L
tr|A0A0Q6WLA5|A0A0Q6WLA5_9BURK E. GKT T . CGLCSRLRRGILY . RVADEL G C T K I A L G H H R D D I L Q T F F M N M F F G S K L K G M P A P K L
tr|A0A240DXW0|A0A240DXW0_9BURK E. GKT T . CGLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I L E T L L N M F F A G K L K G M P P K L
tr|A0A0C3RNN2|A0A0C3RNN2_9PROT E. GKT T . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L E T F F L N L F Y G K L K T M P P K L
tr|A0A2W4K1C2|A0A2W4K1C2_9PROT E. GKT M . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L E T F F L N L F F G K L K A M P P K L
tr|A0A2E6VR38|A0A2E6VR38_9DELT A. GKT Y . CSLCSRLRRGILY . STARL N C N K I A L G H H L D D S L E T L M L N L F F G G K L Q A M P A P K L
tr|A0A2V8BCR6|A0A2V8BCR6_9BACT D. GATP . CSLCARLRRGVLY . RVAKE T G A T K I A L G H H A D D I E T L L L N L F F A G S L K A M P P K L
sp|B0RYX8|TTCA_XANCB Q. GKT M . CSLCSRLRRGALY . AYAAH G V T K I A L G H H R D D I V A T F F M N L F H H A R L A A M A P P K L
tr|A0A0A1H5Z5|A0A0A1H5Z5_9BURK E. GKT M . CSLCSRLRRGVLY . RVADEL G A T K I A L G H H R D D I L G T F F L N L F Y G G R I K A M P P K L
tr|A0A1F4B9Q3|A0A1F4B9Q3_9PROT E. GKT M . CSLCSRLRRGVLY . RLAGE L G A T R I A L G H H R D D I L E T F F L N L F F G K L K A M P P K L
tr|A0A0Q7AH75|A0A0Q7AH75_9BURK E. GKT M . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D M L Q T F F L N M F F G A K L K G M P A P K L
tr|C3XBV2|C3XBV2_OXAFO E. GKA V . CSLCSRLRRGILY . KVAEL G V T K I A L G H H R D D V L E T F F L N L F F G S R L K S M P P K L
tr|R7KKV3|R7KKV3_9BURK E. GRNV . CSVCSRLRRGILY . RVADEL G I T K I A L G H H M D D I V S T L L N M F Y G K L K G M P P I L
tr|A0A2N6HLY9|A0A2N6HLY9_9BACT E. GQTT . CSLCSRLRRGILY . RVADEL G A T K I A L G H H R D D I I E T F F L N L F Y T G K L K T M P P K L
tr|A0A2A3VI31|A0A2A3VI31_9GAMM E. GKT M . CSLCSRLRRGALY . TYAEAN G F T K I A L G H H R D D L V A T F F L N L F F H A K L S G M P P K L
tr|A0A2V8SAY2|A0A2V8SAY2_9BACT L. GDTH . CSMCARLRRGVLY . RLAPRL G C N K I A L G H H A D D I L E T L L M S Q F F N G I C S M P P I L
tr|I4W9P8|I4W9P8_9GAMM Q. GRM T . CSLCSRLRRGALY . QWAADN G V T K I A L G H H R D D I L A T F F L N L F H Q A N L K A M P P K L
tr|A0A1Q7HR32|A0A1Q7HR32_9BACT L. GDTH . CSMCARLRRGVLY . RIAPEL G C N K I A L G H H A D D I L E T L L M S Q F F N G I C S M P P I L
tr|A0A1I1X1F5|A0A1I1X1F5_9DELT A. GKAY . CSMCSRLRRGILY . TAAER L G C N K I A L G H H R D D S L E T L L L N L F Y A G R L Q A M P A G Y

tr|A0A2T0XCQ9|A0A2T0XCQ9_9PROT E. GKTT. CSLCSRLRRGILY. RVAAELGATKIALGHHRDDIATFFLNLFYGAKLKAMPKKL
tr|A0A1H1GE24|A0A1H1GE24_9GAMM E. GRTM. CSLCSRLRRGILY. AHADAHFATKIALGHHRDDMVAFFLNLFYHAKLSAMPKKL
tr|A0A2K3V265|A0A2K3V265_9DETO P. GQTT. CTLCSRLRRGILY. AQATRLGATRIALGHHREDIILQTLFFLNLFYGARLKAMPKKL
tr|A0A077DFR5|A0A077DFR5_9BURK E. GKTT. CSLCSRLRRGILY. RVAAELGATKIALGHHRDDIATFFLNLFYAAKLSMPKKL
tr|A0A0R0D1A2|A0A0R0D1A2_9GAMM E. GRTO. CSLCSRLRRGILY. QHAATHGFTRIALGHHDDMAATFLMNLFFHHAHLSGMPKKL
tr|A0A1H6SN85|A0A1H6SN85_9GAMM A. GKTM. CSLCSRLRRGILY. RWAENGITRIALGHHRDDIATFFLNLFYHAKLSAMPKKL
tr|A0A0S8B9F1|A0A0S8B9F1_9PROT E. GKTL. CGLCSRLRRGVLY. RVAGELGATKIALGHHRDDIATFFLNLFYGGKLSAMPKKL
tr|A0A1W2AVA5|A0A1W2AVA5_9BURK E. GKTT. CGLCSRLRRGILY. RVADELGATKIALGHHREDIETLLNLMFYGGKLSAMPKKL
tr|A0A1F4C0R4|A0A1F4C0R4_9PROT E. GATM. CGLCSRLRRGVLY. RLATELKA TKIALGHHRDDILETFFLNLFYGGKLMGMSPKL
tr|A0A0G9I466|A0A0G9I466_9XANT E. GKTM. CSLCARLRRGILY. RYAAENGINKIALGHHRDDIVATFFMNLFFHAKLAAMPKKL
tr|A0A142LLS3|A0A142LLS3_9PROT E. GKTM. CSLCSRLRRGVLY. RVAAELGANKIALGHHRDDNVQTFFLNLFYGSRLKAMPKKL
tr|A0A0S4KPD2|A0A0S4KPD2_9BACT E. GETT. CSLCSRLRRGHLY. RIATELGATKIALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A1F3ZUE5|A0A1F3ZUE5_9PROT E. GKTM. CSLCSRLRRGVLY. RVAGELGATKIALGHHRDDIETLFFLNLFYGGTLLKAMPKKL
tr|A0A1F4DZ03|A0A1F4DZ03_9PROT E. GKTM. CSLCSRLRRGVLY. RVAGELGATRIALGHHRDDIETFFLNLMFYGGTLLKAMPKKL
tr|I7JPW7|I7JPW7_9BURK E. GKTT. CSLCSRLRRGILY. RVSDDELGCTKIALGHHRDDIATFFLNLFYAAKLLKAMPKKL
tr|A0A1W9I1Z2|A0A1W9I1Z2_9BACT E. GQTT. CSLCSRLRRGHLY. RIASELGATKIALGHHRDDIAETLFFLNLFYGGKLSAMPKKL
tr|A0A0K6INV6|A0A0K6INV6_9PROT E. GKTT. CSLCSRLRRGILY. RTARELGANKVALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A1Q7K1L6|A0A1Q7K1L6_9BACT E. GATP. CSLCARLRRGVLY. RIAKETGATKIALGHHDDFIETLLNLFYAGSLKAMPKKL
tr|A0A1F4A4W7|A0A1F4A4W7_9PROT E. GKTM. CSLCSRLRRGVLY. RVASEIGATKIALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A1W1I491|A0A1W1I491_9BACT E. GQTT. CSLCSRLRRGHLY. RIASELGATKIALGHHRDDIVETLLNLFYGGKLSAMPKKL
tr|A0A0A0EQJ7|A0A0A0EQJ7_9GAMM E. GKTM. CSLCSRLRRGILY. TWAENGVTKIALGHHRDDIVATFFLNLFYHAKLSAMPKKL
tr|A0A227KHY1|A0A227KHY1_9BURK D. PRNF. CSLCSRLRRGIVY. RIAKEQKVTKIALGHHMDDVVSLLNMYYGGKLSAMPKKL
tr|G7UTP0|G7UTP0_PSEUP Q. GKAL. CSLCSRLRRGILY. AHAAHRHFTKIALGHHRDDIVATFFMNLFFHAKLSAMPKKL
tr|A0A2E9QVJ1|A0A2E9QVJ1_9DELT P. GQVR. CSLCSRLRRGILY. NIAETFGCTKIALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A2D4T7S2|A0A2D4T7S2_9GAMM E. GKTT. CGLCSRLRRGILY. GFAEQIGASKIALGHHRDDIVETLLNLFYGGKLSAMPKKL
tr|D0LKN0|D0LKN0_HALO1 P. GATP. CSLCSRLRRGVLY. NLAGEFAC TKIALGHHDDIETLFFLNLMYSGKLSAMPKKL
tr|A0A1E4K8H8|A0A1E4K8H8_9GAMM E. GRTM. CSLCSRLRRGILY. DHAAAEFCTKIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A1F4APU1|A0A1F4APU1_9PROT E. GRTM. CSLCSRLRRGVLY. RVAGEIGATRIALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A2N6GWA5|A0A2N6GWA5_9BACT E. GQTT. CSLCSRLRRGILY. RVATELGATKIALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A2N6CXG2|A0A2N6CXG2_9GAMM V. GKTT. CSLCSRLRRGILY. RYAAENGISKIALGHHRDDIVETLFFLNLFYGGKLSAMPKKL
tr|A0A0H1AUB9|A0A0H1AUB9_9GAMM E. GKTM. CSLCSRLRRGILY. TYAENGCTKIALGHHRDDIVATFFLNLFYHAKLSAMPKKL
tr|A0A136JY00|A0A136JY00_9BACT E. GQTT. CSLCSRLRRGHLY. RLAAELGATKIALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A2P56X0|A0A2P56X0_9XANT E. GKTL. CSLCSRLRRGILY. RYAAENGCTKIALGHHRDDIVATFFMNLFFHAKLSAMPKKL
tr|A0A2N6HCJ3|A0A2N6HCJ3_9BACT E. GQTT. CSLCSRLRRGHLY. RIASELGATKIALGHHRDDINETLFFLNLFYGGKLSAMPKKL
tr|A0A1B3W763|A0A1B3W763_9GAMM E. GKTM. CSLCSRLRRGILY. TYAAEHGFCTKIALGHHREDMVATFFLNLFYHAKLSAMPKKL
tr|A0A1Q3HX84|A0A1Q3HX84_9DELT P. GKTO. CAVCSRLRRGILY. TAAVELGCTKIALGHHRDDIETLFFLNLFYAGSLKAMPKKL
tr|A0A0S8DJ34|A0A0S8DJ34_9PROT E. GKTM. CGLCSRLRRGVLY. RVASELGATRIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1H9F4W7|A0A1H9F4W7_9GAMM E. GKTM. CSLCSRLRRGILY. SYAAEHGYNKIALGHHKDDIVATFFLNLFYHAKLSAMPKKL
tr|A0A1Q7RN46|A0A1Q7RN46_9BACT L. GDTH. CSMCARLRRGVLY. RIAPELRCNKIALGHHDDIETLFFMSQFFNGEICSMPIIL
tr|A0A2W4SMK5|A0A2W4SMK5_9PROT E. GRTM. CGLCSRLRRGILY. RFAAENGITKIALGHHRDDIVETLFFNMFFGGKLSAMPKKL
tr|A0A1W9GP08|A0A1W9GP08_9BACT E. GQTT. CALCSRLRRGHLY. RIAATELGATKIALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A2V8L7U0|A0A2V8L7U0_9BACT E. GKTS. CAVCSRLRRGILY. NIAVEEGCTKIALGHHDDIETLFFLNLFYIGRLKAMPKKL
tr|A0A2N6HCC5|A0A2N6HCC5_9BACT E. GQTT. CSLCSRLRRGILY. RVATELGATKIALGHHRDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A2P6UWD7|A0A2P6UWD7_9BURK E. GKTT. CSLCSRLRRGILY. RIAELGATKIALGHHRDDIVETLFFLNLFYGGKLSAMPKKL
tr|A0A1W9Q7F1|A0A1W9Q7F1_9DELT E. GQTY. CSLCSRLRRGVLY. RAAELGCTKIALGHHRDDIETLFFMNLFYGGKLSAMPKKL
tr|D2U914|D2U914_XANAP E. GKTL. CSLCSRLRRGILY. RYAAEHGISKIALGHHDDMVATFFMNLFFHAKLSAMPKKL
tr|A0A2V8QZ45|A0A2V8QZ45_9BACT E. GKTY. CSLCSRLRRGILY. RVATEEGCTKIALGHHDDIETLFFLNLFYGGKLSAMPKKL
tr|A0A0C1ZJ02|A0A0C1ZJ02_9DELT A. GKAF. CSLCSRLRRGILY. DVAVELGATKIALGHHRDDIVETLFFLNLFYAGSLKAMPKKL
tr|A0A2G4JKQ0|A0A2G4JKQ0_9BACT S. DDT. CSLCARLRRGVLY. RMAKETGATKIALGHHRDDIETLFFLNLFYAGSLKAMPKKL
tr|A0A1P8FIE4|A0A1P8FIE4_9PROT E. GKTM. CSLCSRLRRGILY. RVAGELGATKIALGHHRDDIVETLFFLNLFYGGKLSAMPKKL
tr|A0A2N6C1I7|A0A2N6C1I7_9GAMM E. GKTM. CSLCSRLRRGILY. TFAAEHGFTRIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E6NRV0|A0A2E6NRV0_9BACT K. DNST. CGPCLSRRLRGILY. TTAERLGNKIALGHHRDDIETLFFLNLFYAGSLKAMPKKL
tr|A0A0S4M5G9|A0A0S4M5G9_9BACT P. QDTK. CSLCSRLRRGILY. RLAAELGVNKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2V8RRY8|A0A2V8RRY8_9BACT E. GKTY. CSVCARLRRGILY. NIAAEAGCTKIALGHHDDIETLFFLNLFYIGRLKAMPKKL
tr|A0A2V8NMT6|A0A2V8NMT6_9BACT E. GKTY. CSVCARLRRGILY. NLAAVEGCTKIALGHHDDIETLFFLNLFYIGRLKAMPKKL
tr|A0A1Z3HKZ4|A0A1Z3HKZ4_9CYAN D. GKTM. CGLCSRLRRGILY. RVAAEAGATKIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A1E3YP57|A0A1E3YP57_9BACT D. DTP. CSLCARLRRGVLY. RLASQHGATKIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A1F2VT74|A0A1F2VT74_9BACT S. DDT. CSLCARLRRGVLY. RLATQTGATKIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A229FVN0|A0A229FVN0_9BURK E. GKTT. CSLCSRLRRGILY. RVAGELGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1Q7NMH3|A0A1Q7NMH3_9BACT E. GKTF. CAVCSRLRRGILY. NIAVEERGCTKIALGHHDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1F2UEC9|A0A1F2UEC9_9BACT A. DQTP. CSLCARFRRGVLY. RIAATELGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2W4IY52|A0A2W4IY52_9PROT P. GKTT. CSLCSRLRRGILY. DVAVELGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1Q4F9M9|A0A1Q4F9M9_9GAMM A. GRTM. CSLCSRLRRGILY. DFAAKNGYNRIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A177QU13|A0A177QU13_9PROT E. GQTM. CSLCSRLRRGVLY. RVAGELGATKIALGHHRDDIATFFLNLFYHAKLSAMPKKL
tr|A0A2E6DH17|A0A2E6DH17_9DELT E. GKIF. CSLCSRLRRGILY. KAALRHGCTKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1F4AZ02|A0A1F4AZ02_9PROT E. GKTY. CSLCSRLRRGILY. RVAGELGATKIALGHHRDDIATFFLNLFYHAKLSAMPKKL
tr|A0A1G0K8S4|A0A1G0K8S4_9GAMM E. GDMT. CGLCSRLRRGILY. SFARAEVGYNKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1F2S0S1|A0A1F2S0S1_9BACT A. SATP. CSLCARLRRGVLY. RIAAEVAGSKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1F4F7H5|A0A1F4F7H5_9PROT E. GKTM. CSLCSRLRRGVLY. RVAGELGATRIALGHHRDDIATFFLNLFYHAKLSAMPKKL
tr|A0A1F4EY53|A0A1F4EY53_9PROT E. GKTY. CSLCSRLRRGILY. RVAGELGATRIALGHHRDDIVATFFLNLFYHAKLSAMPKKL
tr|A0A2V9MNZ3|A0A2V9MNZ3_9BACT E. GETT. CALCSRLRRGILY. NAAVELRCNKIALGHHRDDIETLFFLNLFYGGTLLKAMPKKL
tr|A0A1F2T0Z1|A0A1F2T0Z1_9BACT S. NATP. CSLCARLRRGVLY. RIASETGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E1W0Q9|A0A2E1W0Q9_9BACT E. RSTP. CSLCARLRRGVLY. RIAAGEVATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E8PU16|A0A2E8PU16_9SPIO E. GKTY. CAVCSRLRRGILY. RLAAELGCTKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E3YPS5|A0A2E3YPS5_9GAMM K. GKTM. CGLCSRLRRGVLY. RAADELGVTKIALGHHQDDMVEITLFFLNLFYHAKLSAMPKKL
tr|A0A2V9IN59|A0A2V9IN59_9BACT E. GKTT. CSLCSRLRRGILY. KTAIEEGCTKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2N6EE65|A0A2N6EE65_9DELT P. GSYS. CSFCLSRRLRGILY. SVADKLGNKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2S9YG53|A0A2S9YG53_9DELT P. GKAY. CAACSRLRRGVLY. TNAARLGNKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1V5WZE2|A0A1V5WZE2_9DELT E. GKSF. CSLCSRLRRGILY. RLSDDELGNKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2W4LZQ0|A0A2W4LZQ0_9PROT E. NKTY. CSLCSRLRRGILY. TVAVELGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2V8HI30|A0A2V8HI30_9BACT D. GATP. CSLCARLRRGILY. RLADTVGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1Z9BBR1|A0A1Z9BBR1_9PROT R. EKIT. CSFCLSRRLRGILY. CIAKVLDTKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2V8BI128|A0A2V8BI128_9BACT D. GATP. CSLCARLRRGVLY. RIAKEIGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2V8FAJ3|A0A2V8FAJ3_9BACT A. DETP. CSLCARLRRGVLY. RLAADELGATKIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A1F9LA55|A0A1F9LA55_9DELT P. GKVY. CSLCSRLRRGILY. KAATRHGCTKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1I1VSU3|A0A1I1VSU3_9DELT A. GKAY. CSLCSRLRRGILY. DVAVELGCTKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E4FKB0|A0A2E4FKB0_9BACT E. TATP. CSLCARLRRGVLY. RIAATDVGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|I4B8F4|I4B8F4_TURPD A. GQTF. CSLCSRLRRGILY. DEAEELGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1F2TDP4|A0A1F2TDP4_9BACT G. GATP. CSLCARLRRGVLY. RLAADELGATKIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A2V8IUM8|A0A2V8IUM8_9BACT E. SATP. CSLCARLRRGILY. RLATKVGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E6ZRN2|A0A2E6ZRN2_9BACT A. QATP. CSLCARLRRGVLY. RVASAVGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2S9XKB3|A0A2S9XKB3_9DELT P. GKAY. CSLCSRLRRGILY. DVAAELGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E7BN06|A0A2E7BN06_9BACT A. RATP. CSLCARLRRGVLY. RMATEVGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E8E785|A0A2E8E785_9BACT A. RATP. CSLCARLRRGVLY. RVARDVGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|K9WKS1|K9WKS1_9CYAN E. GKTM. CGLCSRLRRGILY. RVASEEGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E6NIN2|A0A2E6NIN2_9BACT A. KATP. CSLCARLRRGVLY. RLAAEVDGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
sp|A1AUS1|TTCA_PELPD P. GSYS. CSICARLRRGILY. GLADSGCTKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A1W9N6M0|A0A1W9N6M0_9SPIO E. GDIP. CALCSRLRRGILY. AAARENGFNKVALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A1G0HG69|A0A1G0HG69_9GAMM E. GKTY. CSLCSRLRRGILY. RYAAENGFNKVALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A257KZN9|A0A257KZN9_9BURK A. GKTM. CSLCSRLRRGILY. RVAGELGATKIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|A0A017SU25|A0A017SU25_9DELT E. NKTY. CSLCSRLRRGILY. RLAADELGATKIALGHHRDDIETLFFLNLFYHAKLSAMPKKL
tr|A0A2E5NNL5|A0A2E5NNL5_9PROT E. GKTM. CGLCSRLRRGVLY. RVAAELGATKIALGHHRDDIVETLFFLNLFYHAKLSAMPKKL
tr|H2CFU5|H2CFU5_9LEPT P. GKTY. CAVCSRLRRGILY. RLAAERDGNVIALGHHREDMVITLFFLNAMFAGKLSAMPKKL

| | | | | | | | | | |
|--------------------------------|-----------|---------------|------------------|------------|---------------|--------------|------------|-------------|--------|
| tr\|A0A2V6RG95\|A0A2V6RG95_9BACT | | . H. G. . . . | . CDVCSRRHRRRTLY | . QVAAEL | . GCTTALGHTA | . ADDCAEALL | . LRNLFFN | . GRITASLP | . PVPA |
| tr\|A0A2E9Q744\|A0A2E9Q744_9SPIO | | . E. GKTY | . CAVCSRRMRGILY | . RLAREL | . GCNRIALGHH | . REDLLST | . FLMNAFFN | . NGKLGSM | . PVPY |
| tr\|A0A1F2R952\|A0A1F2R952_9BACT | | . A. DQTP | . CSLCARLRRGVLY | . RVAREV | . GATKIALGHHM | . DDFIETLL | . LNLFFA | . GALAKAMP | . PAKL |
| tr\|V5WDR6\|V5WDR6_9SPIO | | . D. GKPG | . CSLCSRLRRGALY | . STAARV | . GADKIALGHH | . DDFIETLL | . LNLFFG | . GTLKTMP | . PKKL |
| tr\|A0A2V8GAJ7\|A0A2V8GAJ7_9BACT | | . A. DADP | . CSLCARFRRCVLY | . RIATEV | . GATKIALGHH | . DDFIETLL | . LNLFFA | . GSKLGAMP | . PAKL |
| tr\|A0A2J6J4V4\|A0A2J6J4V4_9DELT | | . P. GSSY | . CAFCARLRRGALY | . TAAITELN | . CNKIALGHHM | . DDVIETLL | . LNFQFYS | . GSKLGAMP | . PRV |
| tr\|A0A2N2FXA6\|A0A2N2FXA6_9DELT | | . P. GTSY | . CSFCARLRRGALY | . NVQAORL | . GCNKIALGHH | . LDDFIETLL | . LNFQFYI | . GRILAAMS | . PKKL |
| tr\|A0A2N6FC22\|A0A2N6FC22_9DELT | | . P. GSSY | . CAFCARLRRGVLY | . TLAADHL | . GCNKVALGHH | . CDDFIETLL | . LNFQFV | . VGRILAAMS | . SKM |
| tr\|A0A2V8UJY0\|A0A2V8UJY0_9BACT | | . H. G. . . . | . CDLCSRYRRRAVY | . EIAARGL | . GANVIAFGHTA | . DDFFCEALL | . LRNTMFT | . TGRLSALP | . PVT |
| tr\|A0A1T4JZQ3\|A0A1T4JZQ3_9DELT | | . P. GSSY | . CSFCARLKRGLY | . GAARRL | . GCNLIALGHH | . DDFIETLL | . LNFQFI | . IGTLKAMAA | . AKT |
| tr\|M4VBX7\|M4VBX7_9PROT | | . . DGVS | . CSLCSKMRRALY | . DYAFDNKF | . SKMALGHH | . DDVIETLL | . LNLFFYV | . GQLSTMP | . PKKL |
| tr\|A0A1L3GE40\|A0A1L3GE40_PELAE | | . P. GSSV | . CAFCARLRRGALY | . SVADR | . GCNKIALGHH | . LDDFIETLL | . LNFQFV | . TGRILAAMS | . SARL |
| tr\|A0A2V7HPH4\|A0A2V7HPH4_9BACT | | . H. G. . . . | . CDVCSRRHRRGALY | . RVAAEI | . GATVIALGHTA | . DDCAEALL | . LRNLFFN | . GRITASLP | . PVPA |
| tr\|A0A2N9LW04\|A0A2N9LW04_9BACT | | . H. G. . . . | . CDLCSRYRRRAVY | . EIAHSL | . GANVIAFGHTA | . DDFFCEALL | . LRNTMFT | . TGRLSALP | . PVT |
| tr\|A0A2F0ART3\|A0A2F0ART3_9DELT | | . D. GKAY | . CSLCSRRMRGILY | . RQAEEL | . GANKVALGHH | . DDLIETLL | . LNFQFYS | . GRVRSMA | . PAKL |
| tr\|A0A1F9PW08\|A0A1F9PW08_9DELT | | . P. GSSY | . CSFCARLRRGALY | . VVAEQL | . GCNKIALGHH | . LDDFIETLL | . LNFQFYV | . TGRLGAM | . SKM |
| tr\|A0A212PKL4\|A0A212PKL4_9DELT | | . P. GSSY | . CSICARLKRGLY | . TLAQRL | . GCNKIALGHH | . LDDFIETLL | . LNFQFV | . GSKLGAM | . PSM |
| tr\|A0A1E7IDL2\|A0A1E7IDL2_9DELT | | . P. GTSY | . CAFCARLRRGALY | . ATATKLS | . CNKVALGHH | . DDHIETLL | . LNFQFYS | . GTLAAMS | . PKKL |
| tr\|A0A1F4K9T7\|A0A1F4K9T7_9BURK | | . E. GKTM | . CSLCSRLRRGILY | . RVADELKI | . TKIALGHH | . DDMLQTF | . FLNMFFG | . GKIKGMP | . PKKL |
| tr\|A0A1V6G367\|A0A1V6G367_9BACT | | . Q. GGQ | . CSACSRLRRGVLY | . SQARRL | . GCAKVALGHH | . DDVAETLL | . LNMFFY | . CGRIQSM | . PARY |
| tr\|A0A1V6GTQ7\|A0A1V6GTQ7_9DELT | | . D. DKDP | . CSACSRLRRGALY | . GLAEER | . GSSIALGHHM | . DDVIETFF | . LRCLYT | . TQGLGAMA | . PAR |
| tr\|A0A2V7EYK5\|A0A2V7EYK5_9BACT | | . H. G. . . . | . CDVCSRRHRRALY | . RLAAEL | . GCTTALGHTA | . DDCAESLL | . LRNLFFN | . GRITASLP | . PVPA |
| tr\|A0A2K2H7P2\|A0A2K2H7P2_9DELT | | . P. GSSY | . CSFCARLRRGILY | . SLADEL | . GCNKIALGHH | . LDDFIETLL | . LNFQFYV | . GSKLGAM | . SKM |
| tr\|A0A1F7NH02\|A0A1F7NH02_9BACT | | . H. G. . . . | . CEVCSRRHRRSALY | . RIAAER | . GCTVIALGHTA | . DDCAEALL | . LRNLFFN | . FNGRIVSL | . PVPA |
| tr\|A0A0B5FS20\|A0A0B5FS20_9DELT | | . P. GTSF | . CAFCARLRRGALY | . SLADR | . CNKIALGHH | . LDDFIETLL | . LNFQFYI | . GRILAAMS | . PKKL |
| tr\|A0A2V6ULT5\|A0A2V6ULT5_9BACT | | . H. G. . . . | . CDVCSRRHRRALY | . RLAAEL | . GCTTALGHTA | . DDCAESLL | . LRNLFFN | . GRITASLP | . PVPA |
| tr\|A0A2V6Y9C3\|A0A2V6Y9C3_9BACT | | . H. G. . . . | . CDVCSRRHRRALY | . RLAAEL | . GCTTALGHTA | . DDCAESLL | . LRNLFFN | . GRITASLP | . PVPA |
| tr\|A0A2N6EF94\|A0A2N6EF94_9DELT | | . P. GSSY | . CAFCARLRRGVLY | . TVADR | . GCNKIALGHH | . LDDFIETLL | . LNFQFYV | . TGRLGAM | . SKM |
| tr\|A0A0A8RJ9R\|A0A0A8RJ9R_PSEAI | | . E. GKTT | . CSLCSRLRRGTYL | . TFADEI | . GATKMALGHH | . DDVIETFF | . LNMFFG | . GSKLGAM | . PAKL |
| tr\|A0A0P9TR35\|A0A0P9TR35_PSEAV | | . E. GKTT | . CSLCSRLRRGTYL | . TFADEI | . GATKMALGHH | . DDVIETFF | . LNMFFG | . GSKLGAM | . PAKL |
| tr\|A0A2D7N717\|A0A2D7N717_9GAMM | | . E. GKTT | . CALCSRLRRGTYL | . GFAEAN | . GVTKIALGHH | . DDVIETFF | . LNLFFG | . GSKLGAM | . PAKL |
| tr\|A0A2E4KXY4\|A0A2E4KXY4_9GAMM | | . E. GKTT | . CALCSRLRRGTYL | . GFAEAN | . GVTKIALGHH | . DDVIETFF | . LNLFFG | . GSKLKT | . MPKL |
| tr\|A0A2U2AFP2\|A0A2U2AFP2_9GAMM | | . E. GKTT | . CSLCSRLRRGVLY | . QYAKDR | . FNKIALGHH | . DDVMVETL | . FLNMFFY | . GGTMKSM | . PAKL |
| tr\|A0A1Z9WNU8\|A0A1Z9WNU8_9GAMM | | . E. GKTT | . CALCSRLRRGTYL | . GFABTN | . GVTKIALGHH | . DDVIETFF | . LNLFFG | . GSKMT | . MPKL |
| tr\|A0A0K2G7B2\|A0A0K2G7B2_NITMO | | . E. GQTT | . CSLCSRLRRGTYL | . RIAAGEL | . GATKIALGHH | . DDVIETFF | . LNLFFY | . TGLKLAIP | . PKKL |
| tr\|A0A2M6X3K2\|A0A2M6X3K2_9PROT | | . N. GAVP | . CALCSRLRRGTYL | . GMAAANK | . CNKIALGHH | . KDDFIETLL | . LNFQFYG | . IRIGAMA | . PAKL |
| tr\|A0A1V5R0W3\|A0A1V5R0W3_9BACT | | . E. ITTP | . CAMCSRLRRGVLY | . THAKTR | . GYTKIALGHH | . LDDVIETLL | . LNFQFYS | . GRLST | . MPKL |
| tr\|X0QN96\|X0QN96_9GAMM | | . E. GKTY | . CSACSRLRRGSY | . GFAKQI | . GATKIALGHH | . DDMLATFF | . LNLFFHG | . GALKSM | . PAKL |
| tr\|A0A2N2JDQ6\|A0A2N2JDQ6_9DELT | | . A. GKTY | . CSLCSRLRRGILY | . DVAVEL | . GATRIALGHH | . DDIIETLL | . LNLFFY | . GQLKAMP | . PIL |
| tr\|A0A1Z5JK72\|A0A1Z5JK72_FISSO | | . P. GKTY | . CTVC SRLRGILY | . SKATL | . GCNKITLGH | . AADDIETLL | . LNMHIG | . GQLSAMP | . PAKL |
| tr\|A6G7U2\|A6G7U2_9DELT | | . A. GKAY | . CSLCSRLRRGILY | . DVAVEL | . GATKIALGHH | . DDVVETLL | . LNLFFY | . AGQLKAMP | . PAKL |
| tr\|A0A1L6LYW7\|A0A1L6LYW7_9DELT | | . E. GKTY | . CSLCSRLRRGILY | . RLAREM | . GCTKIALGHH | . DDATITLL | . LNLFFS | . GQLKAMP | . PAKL |
| tr\|A0A2N2GUK6\|A0A2N2GUK6_9DELT | | . D. PKQI | . CTACARFRGILY | . DLAFEKRA | . LVLVGH | . AADDSMETLL | . MNVFFT | . TGKLOAMP | . PVL |
| tr\|A0A1M3N0E1\|A0A1M3N0E1_9DELT | | . E. GKTF | . CSLCSRLRRGILY | . RVAREL | . GCTKIALGHH | . DDILQTL | . LNLFFAC | . QLAAMP | . PAKL |
| tr\|A0A143PPA8\|A0A143PPA8_9BACT | | . A. NADP | . CSLCARLRRGVLY | . RIAEEE | . GATKIALGHH | . LDDFIETLL | . LNMFFG | . GALKAMP | . PARL |
| tr\|A0A0D6QPU7\|A0A0D6QPU7_9DELT | | . E. GKTT | . CPVCSRLRRGVLY | . NAAVEM | . GCTKIALGHH | . DDIVETLL | . LLSALY | . GALKSM | . PAKL |
| tr\|A0A150QKP6\|A0A150QKP6_SORCE | | . E. NKTY | . CSLCSRLRRGILY | . RIAAREL | . GCTKIALGHH | . DDIVETLL | . LNLFI | . FAGQLKSM | . PAKL |
| tr\|A0A0F6W196\|A0A0F6W196_9DELT | | . E. ESTY | . CSLCSRLRRGILY | . NVAQEL | . GCTKIALGHH | . DDIAETLL | . LNLMTF | . GSKLGAM | . PAKL |
| tr\|A0A2E4F8S9\|A0A2E4F8S9_9DELT | | . E. GKTY | . CPLCSRLRRGILY | . DTAVEL | . GATKIALGHH | . DDVIETLL | . LNLFFYS | . GQLKAMP | . PAKL |
| tr\|A0A2M8BFD6\|A0A2M8BFD6_9DELT | | . P. EQTT | . CALCSRLRRGIMY | . NQAVEL | . GCTKIALGHH | . DDSIETLL | . LNLFFYS | . GQLKAMP | . PAKL |
| tr\|A0A2D9HEL4\|A0A2D9HEL4_9DELT | | . E. GRSTY | . CSLCSRLRRGILY | . DQAEAL | . GCTKIALGHH | . DDAAETLL | . LNLFFYS | . GQLKSM | . PAKL |
| tr\|A0A2E7BRH0\|A0A2E7BRH0_9DELT | | . E. GSTY | . CSLCSRLRRGILY | . DQAEAL | . GCTKIALGHH | . DDAAETLL | . LNLFFYS | . GQLKSM | . PLL |
| tr\|A0A2E7MCK4\|A0A2E7MCK4_9DELT | | . E. GDY | . CSLCSRLRRGSY | . SAAAELE | . CNKIALGHH | . AADAIETLL | . LNLMTF | . TGLKTM | . PAWL |
| tr\|A0A2T5ZGX2\|A0A2T5ZGX2_PSED | | . E. GRTT | . CSLCSRLRRGTYL | . TFADEI | . GATKMALGHH | . DDVIETFF | . LNMFFG | . QSKIGAM | . PAKL |
| tr\|A0A2P9H6T1\|A0A2P9H6T1_9BURK | | . E. GKTT | . CSLCSRLRRGVLY | . RVAGEL | . GATKIALGHH | . DDILGTF | . LNLFFY | . GRIKAMP | . PAKL |
| tr\|A0A2N9LJS7\|A0A2N9LJS7_9BURK | | . D. GKTT | . CSLCSRLRRGVLY | . RVASEL | . GATKIALGHH | . DDILGTF | . LNLFFY | . GRIKAMP | . PAKL |
| tr\|E7S057\|E7S057_9BURK | | . D. GKTK | . CSLCSRLRRGILY | . RVASEL | . GATRIALGHH | . DDILATFF | . LNLFFY | . GQLKTM | . PAKL |
| tr\|A0A2A4P8Z1\|A0A2A4P8Z1_9RHIZ | | . A. GKTY | . CSLCSRLRRGILY | . RVAKEN | . CSVVGLGHH | . DDIAETLL | . LNLFFG | . GRMAAMP | . PAKL |
| tr\|A0A0M7AI61\|A0A0M7AI61_9RHOB | | . E. HRTY | . CSLCSRLRRGILY | . RIAAREQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|B9QZY1\|B9QZY1_LABAD | | . E. HRTY | . CSLCSRLRRGILY | . RVAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|A0A2E8PN43\|A0A2E8PN43_9RHOB | | . E. GRSTY | . CALCSRLRRGILY | . RIAAREEQ | . GCAVVLGHH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A0U3Q6R9\|A0A0U3Q6R9_9RHOB | | . A. HKTY | . CSLCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|Q0FM23\|Q0FM23_PELBH | | . Q. GRTF | . CALCSRLRRGILY | . RIAAREEQ | . GCAVVLGHH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A285NGN7\|A0A285NGN7_9RHIZ | | . E. GNTY | . CSLCSRLRRANLY | . RVAREH | . GCDALVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|A0A1H1I26\|A0A1H1I26_9RHOB | | . E. NSTY | . CSLCSRLRRGILY | . RTAREL | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRMSSMP | . PAKL |
| tr\|A0A1U7JKQ3\|A0A1U7JKQ3_9RHOB | | . E. NRTY | . CSLCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRMSSMP | . PAKL |
| tr\|A0A2T5VDC0\|A0A2T5VDC0_9RHIZ | | . A. GQTY | . CSLCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . LNLFFY | . GRLAAMP | . PAKL |
| tr\|A0A1X0T5T9\|A0A1X0T5T9_9RHIZ | | . D. NATY | . CSLCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLSAMP | . PAKL |
| tr\|A0A1J0WLM9\|A0A1J0WLM9_9RHOB | | . A. NRTF | . CALCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A068D919\|A0A068D919_9RHIZ | | . Q. GSTY | . CSLCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLAAMP | . PAKL |
| tr\|A0A1M7GB07\|A0A1M7GB07_9RHOB | | . A. HRTY | . CSLCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|F2J474\|F2J474_POLGS | | . A. HKTY | . CSLCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|A0A2N5XWE2\|A0A2N5XWE2_9RHIZ | | . E. GKTY | . CSLCSRLRRGILY | . RVAREH | . GCDALVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A165N2M5\|A0A165N2M5_9RHOB | | . E. TSTY | . CSLCSRLRRGILY | . RTAREL | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRMASMP | . PAKL |
| tr\|F0L6P6\|F0L6P6_AGRSH | | . A. GGTY | . CSLCSRLRRGILY | . RIAAREEQ | . GCDALVLGH | . DDIIETFF | . MNLFHG | . GRLAGMP | . PAKL |
| tr\|A0A2E3JZ33\|A0A2E3JZ33_9RHOB | | . E. GRTF | . CSMCSRLRRGILY | . RIAAREEQ | . GCDALVLGH | . DDIIETFF | . MNLFHG | . GRLAAMP | . PAKL |
| tr\|A0A1Z8X2N2\|A0A1Z8X2N2_9RHIZ | | . A. KQTY | . CALCSRLRRGILY | . RIAAREND | . QCAVVLGH | . DDIIETFF | . LNLFFHG | . GRLSTMP | . PAKL |
| tr\|A0A1L3L3G5\|A0A1L3L3G5_9RHIZ | | . T. GATY | . CSLCSRLRRGILY | . RVAREEQ | . GCDALVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|A0A0M6YMA0\|A0A0M6YMA0_9RHOB | | . E. NKTY | . CSLCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|A0A2S3UK45\|A0A2S3UK45_9RHOB | | . A. HRTY | . CSLCSRLRRGILY | . RVAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|A0A062UNB4\|A0A062UNB4_9RHOB | | . A. GRSTY | . CSMCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRMAAMP | . PAKL |
| tr\|A0A1H2GV68\|A0A1H2GV68_9RHOB | | . E. GKTY | . CSLCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLSSMP | . PAKL |
| tr\|U4V1M4\|U4V1M4_9RHOB | | . E. GRTF | . CALCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A2E2JQJ5\|A0A2E2JQJ5_9RHOB | | . E. GRTF | . CALCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A0Q2U912\|A0A0Q2U912_9RHOB | | . Q. GRLL | . CTMC SRLRRANLY | . RVAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GSKLATMP | . PAKL |
| tr\|A0A1I3NRT7\|A0A1I3NRT7_9RHOB | | . A. GRSTY | . CALCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . LNLFFHG | . GRLASMP | . PAKL |
| tr\|E2CME8\|E2CME8_9RHOB | | . A. HRTY | . CSLCSRLRRGILY | . RVAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|A0A1H8KDM8\|A0A1H8KDM8_9RHOB | | . P. GKTM | . CSLCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A2E6Y209\|A0A2E6Y209_9RHOB | | . A. GKTY | . CSLCSRLRRGILY | . RTAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLASMP | . PAKL |
| tr\|A0A285R4U2\|A0A285R4U2_9RHOB | | . E. GRSTY | . CSLCSRLRRGILY | . RTAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLSSMP | . PAKL |
| tr\|A0A2E2X6Z9\|A0A2E2X6Z9_9RHIZ | | . E. TATY | . CALCSRLRRGHLY | . RVAREEQ | . GCEAIVLGH | . DDIIETFF | . LNLFFHG | . GRLASMP | . PAKL |
| tr\|A0A2A4NQL7\|A0A2A4NQL7_9RHIZ | | . Q. GQTY | . CALCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLAAMP | . GKL |
| tr\|A0A1M4N2C9\|A0A1M4N2C9_9RHOB | | . Q. GRSTY | . CALCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A1Y5S675\|A0A1Y5S675_9RHOB | | . A. GRSTY | . CALCSRLRRANLY | . RVAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A1M5MIW3\|A0A1M5MIW3_9RHOB | | . A. GRSTY | . CALCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A1G9EC22\|A0A1G9EC22_9RHOB | | . Q. GRSTY | . CALCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . LNLFFHG | . GRLATMP | . PAKL |
| tr\|A0A2T5BNF4\|A0A2T5BNF4_9RHOB | | . Q. GRSTY | . CALCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A1H8VKC4\|A0A1H8VKC4_9RHOB | | . E. GRTF | . CALCSRLRRGHLY | . RVAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A2R8AP84\|A0A2R8AP84_9RHOB | | . A. GRSTY | . CALCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A1H9X6V8\|A0A1H9X6V8_9RHOB | | . E. GRTF | . CALCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A0A1V0PXW0\|A0A1V0PXW0_9RHOB | | . A. GRSTY | . CALCSRLRRGILY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr\|A3JN68\|A3JN68_9RHOB | | . A. GRTF | . CSLCSRLRRSHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |
| tr A0A1I1TL21 A0A1I1TL21_9RHOB | | . A. GRTF | . CALCSRLRRGHLY | . RIAAREEQ | . GCEAIVLGH | . DDIIETFF | . MNLFHG | . GRLATMP | . PAKL |

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|--------------------------------|-----------|-------|----|--------------|----|-----|-------|---|------------|---|--------|----|--------|---|----|---|---|---|---|---|---|---|
| tr A0A177HD71 A0A177HD71_9RHOB | | E. GR | TF | CALCSRLRRGN | LY | .RI | AREEN | C | SAIVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | A | K | L |
| tr\|A0A2U2C7M4\|A0A2U2C7M4_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | TSVVLGHH | R | DDMLET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A285CPF5\|A0A285CPF5_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | SAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | R | L |
| tr\|A0A0P7Z0L9\|A0A0P7Z0L9_9RHOB | | E. GR | TY | CALCSRLRRGH | LY | .RV | AREE | G | SAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A9D6D1\|A9D6D1_HOEPD | | E. GA | TY | CALCSRLRRGH | LY | .RI | AREE | G | QALVLGHH | R | DDILET | FF | LNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1G5P8R9\|A0A1G5P8R9_AFIMA | | P. GQ | TM | CALCSRLRRGH | LY | .RV | AREE | G | QAVVLGHH | R | EDALET | FF | MNLMNG | H | GR | L | A | M | P | P | K | L |
| tr\|A0A1H9PDF7\|A0A1H9PDF7_9RHIZ | | A. GG | TY | CALCSRLRRGN | LY | .RI | AREE | G | CDALVLGHH | R | EDILET | FF | MNFFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2E2JGB1\|A0A2E2JGB1_9RHIZ | | S. NA | TY | CALCSRLRRGN | LY | .RI | AREE | G | CEALVLGHH | A | DDCLET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1V3YQY0\|A0A1V3YQY0_9RHIZ | | E. TS | TY | CALCSRLRRGN | LY | .RI | AREE | G | CAIVLGHH | R | EDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1S2E4H9\|A0A1S2E4H9_AGRVI | | A. GG | TY | CALCSRLRRGN | LY | .RI | AREE | G | CDALVLGHH | R | EDILET | FF | MNFFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1R3WLL8\|A0A1R3WLL8_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CCAIVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2S0UI27\|A0A2S0UI27_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2K9MBC8\|A0A2K9MBC8_9RHOB | | P. GG | TM | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDMLET | FF | LNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1X6YHS3\|A0A1X6YHS3_9RHOB | | Q. GR | TM | CALCSRLRRAN | LY | .RV | AREE | G | CTAVVLGHH | R | DDMLET | FF | LNLFH | G | GK | I | A | M | P | P | K | L |
| tr\|A0A1N6SMB1\|A0A1N6SMB1_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|C6XN75\|C6XN75_HTRBI | | A. KA | TY | CALCSRLRRGIL | Y | .NA | AREE | G | CDALVLGHH | R | DDALET | FF | MNLFH | G | GR | L | A | M | P | P | T | L |
| tr\|S5XXH0\|S5XXH0_PARAH | | E. GQ | TM | CALCSRLRRGN | LY | .RV | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1H3KW70\|A0A1H3KW70_9RHOB | | A. GR | TY | CALCSRLRRAN | LY | .RV | AREE | G | CTSVVLGHH | R | DDILET | FF | LNLFH | G | GK | I | A | M | P | P | K | L |
| tr\|A0A059IKQ8\|A0A059IKQ8_9RHOB | | A. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1N6XFJ9\|A0A1N6XFJ9_9RHIZ | | E. GA | TY | CALCSRLRRGN | LY | .RV | AREE | G | CDALVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A0M6YL60\|A0A0M6YL60_9RHOB | | A. GR | TY | CALCSRLRRAN | LY | .RV | AREE | G | CTSVVLGHH | R | DDILET | FF | LNLFH | G | GK | I | A | M | P | P | K | L |
| tr\|A0A2T0JVE2\|A0A2T0JVE2_9RHIZ | | P. GS | TY | CALCSRLRRGH | LY | .RI | AREE | G | CDALVLGHH | R | EDILET | FF | MNLFH | G | GK | L | A | M | P | P | K | L |
| tr\|A0A1Z9YBL5\|A0A1Z9YBL5_9RHOB | | E. TK | TY | CALCSRLRRGIL | Y | .RV | AREE | G | CDALVLGHH | L | DDALQT | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2V2L9E5\|A0A2V2L9E5_9RHOB | | A. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A0F7PGS5\|A0A0F7PGS5_9RHIZ | | E. GA | TY | CALCSRLRRGN | LY | .RI | AREE | G | CEALVLGHH | R | DDILET | FF | LNFFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1N7KET0\|A0A1N7KET0_9RHOB | | E. GQ | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A238X8G4\|A0A238X8G4_9RHOB | | A. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1H5V5L7\|A0A1H5V5L7_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1ION9B5\|A0A1ION9B5_9RHOB | | Q. GR | TF | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2G5K4W6\|A0A2G5K4W6_9RHOB | | T. GR | TY | CAMCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDMLET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1H8DW48\|A0A1H8DW48_9RHOB | | E. GR | TF | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2D5IFK3\|A0A2D5IFK3_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | LNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A196Q2U3\|A0A196Q2U3_9RHOB | | E. GR | TF | CALCSRLRRGN | LY | .RI | AREEN | C | TAIVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2N5B5V1\|A0A2N5B5V1_RHILI | | E. NS | TY | CALCSRLRRGH | LY | .RV | AREE | G | CTAVVLGHH | R | EDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A0H1A2J7\|A0A0H1A2J7_9RHIZ | | E. NR | TY | CALCSRLRRGH | LY | .RI | AREE | G | CTAVVLGHH | R | EDILET | FF | LNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2E0UAR0\|A0A2E0UAR0_9RHOB | | E. TK | TY | CALCSRLRRGIL | Y | .RI | AREE | K | CDALVLGHH | L | DDALET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A0T5NWS8\|A0A0T5NWS8_9RHOB | | A. GR | TY | CALCSRLRRGH | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|X7EFV6\|X7EFV6_9RHOB | | E. GR | TF | CALCSRLRRGH | LY | .RV | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2U2CVF2\|A0A2U2CVF2_9RHOB | | A. GR | TF | CALCSRLRRGN | LY | .RV | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A0P8CS56\|A0A0P8CS56_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | LNLFH | G | GK | L | A | M | P | P | K | L |
| tr\|A0A246QP25\|A0A246QP25_9RHOB | | Q. GR | TF | CALCSRLRRGN | LY | .RV | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A086YAQ0\|A0A086YAQ0_9RHOB | | Q. GR | TM | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|J1JYP4\|J1JYP4_9RHIZ | | P. MQ | TY | CALCSRLRRGH | LY | .RI | AREE | G | CTAVVLGHH | R | DDVFET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|J1JNT6\|J1JNT6_9RHIZ | | H. TQ | TY | CALCSRLRRGN | LY | .RI | AREE | K | CTAVVLGHH | R | DDVLET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1X6YV9\|A0A1X6YV9_9RHOB | | A. GR | TF | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2E4QQZ9\|A0A2E4QQZ9_9RHOB | | E. GN | TF | CAMCSRLRRGIL | Y | .RV | AREE | G | CEALVLGHH | R | DDSLET | FF | MNLFH | G | GR | L | A | M | P | P | T | L |
| tr\|A0A257Y958\|A0A257Y958_9RHOB | | A. SN | TY | CALCSRLRRGIL | Y | .RV | AREE | G | CDALVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2W4P9R4\|A0A2W4P9R4_9PROT | | E. TS | TY | CALCSRLRRGH | LY | .RI | AREE | G | CAALVLGHH | R | EDILET | FF | LNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1V8RTW8\|A0A1V8RTW8_9RHIZ | | E. AS | TY | CALCSRLRRGH | LY | .RV | AREE | G | CTAVVLGHH | R | DDILET | FF | LNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1D2SP07\|A0A1D2SP07_9RHIZ | | E. GS | TY | CALCSRLRRGH | LY | .RI | AREE | G | CTSSVLGHH | R | EDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A0F9XB85\|A0A0F9XB85_9ZZZZ | | E. GA | TY | CALCSRLRRGN | LY | .RI | AREE | G | CEALVLGHH | R | DDCLET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2D8BW03\|A0A2D8BW03_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A271KQ14\|A0A271KQ14_9RHIZ | | E. GN | TY | CALCSRLRRGH | LY | .RI | AREE | G | CTAVVLGHH | R | EDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|Q0G721\|Q0G721_9RHIZ | | D. NA | TY | CALCSRLRRGH | LY | .RI | AREE | G | CEALVLGHH | R | DDCLET | FF | LNLFH | G | GK | L | A | M | P | P | K | L |
| tr\|A0A2P8NIX3\|A0A2P8NIX3_9RHIZ | | E. NS | TY | CALCSRLRRGH | LY | .RI | AREE | G | CTQALVLGHH | R | EDILET | FF | LMNFFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1H9D3L3\|A0A1H9D3L3_9BACT | | A. GS | TY | CALCSRLRRGIL | Y | .RI | AREE | G | CTDAIVLGHH | R | DDVLET | FF | MNLMNG | H | GR | L | A | M | P | P | K | L |
| tr\|A0A2P8FGY9\|A0A2P8FGY9_9RHOB | | A. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1C1YZ22\|A0A1C1YZ22_9RHIZ | | E. GA | TY | CALCSRLRRGN | LY | .RV | AREE | G | CEALVLGHH | R | DDILET | FF | LNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2W5S0Y5\|A0A2W5S0Y5_RHOSH | | T. GR | TF | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1W6PTA1\|A0A1W6PTA1_9RHIZ | | E. GA | TY | CALCSRLRRGN | LY | .RI | AREE | G | CDALVLGHH | R | EDILET | FF | MNFFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1M4XP05\|A0A1M4XP05_9RHOB | | A. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | LNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|J3HU04\|J3HU04_9RHIZ | | E. NQ | TY | CALCSRLRRGH | LY | .RV | AREE | G | CTAVVLGHH | R | EDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1H0F7L0\|A0A1H0F7L0_9RHIZ | | E. NQ | TY | CALCSRLRRGH | LY | .RV | AREE | G | CTAVVLGHH | R | EDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1X4P109\|A0A1X4P109_9RHOB | | Q. GR | TY | CALCSRLRRGN | LY | .RI | AREE | G | CDALVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A2N5IMC5\|A0A2N5IMC5_9RHOB | | A. GR | TY | CAMCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A0P9B4X2\|A0A0P9B4X2_9RHOB | | K. GR | TL | CAMCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr\|A0A1H7JEM0\|A0A1H7JEM0_9RHOB | | A. GR | TY | CALCSRLRRAN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | LNLFH | G | GK | I | A | M | P | P | K | L |
| tr\|A0A0S2EPF2\|A0A0S2EPF2_9RHIZ | | E. GA | TT | CALCSRLRRGN | LY | .RI | AREE | G | CEALVLGHH | L | DDSIET | FF | MNLMHG | H | GK | L | A | M | P | P | K | L |
| tr\|A0A285XL81\|A0A285XL81_ENSAD | | E. GA | TY | CALCSRLRRGN | LY | .RI | AKEE | G | CDALVLGHH | R | EDIIET | FF | LNLFH | G | AK | L | A | M | P | P | K | L |
| tr\|A0A258BYX2\|A0A258BYX2_9RHOB | | E. GR | TY | CSMCSRLRRGIL | Y | .RV | AREE | G | CEALVLGHH | R | DDALAT | FF | MNLIHG | H | GR | L | A | M | P | P | K | L |
| tr A0A1L9BV67 A0A1L9BV67_9RHOB | | A. GR | TY | CAMCSRLRRGN | LY | .RI | AREE | G | CTAVVLGHH | R | DDILET | FF | MNLFH | G | GR | L | A | M | P | P | K | L |
| tr A0A0C2GQ02 A0A0C2GQ02_9RHOB | | | | | | | | | | | | | | | | | | | | | | |

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|---------------------------------|-------------------------------------|-------------------|----------------|--------------|-------------|-----------|----------|---------|
| tr A0A1H0JJ15 A0A1H0JJ15_9RHIZ | E. GATT | CALCSRLRRGNLY | .RIAREEE | GCEALVLGHHH | DDSLETF | FFLNMF | FGKLSAMP | AKLI |
| tr\|A0A1N6PQL7\|A0A1N6PQL7_9RHIZ | E. GATT | CALCSRLRRGNLY | .RVAREEE | GCEALVLGHHH | EDILETF | FFMNF | FHGR | LAAMP |
| tr\|A0A074JAH3\|A0A074JAH3_9RHOB | Q. GRTY | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A231UWT7\|A0A231UWT7_9RHIZ | D. NATY | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | EDILETF | FFLNLF | FHGR | LAAMP |
| tr\|I5BTQ6\|I5BTQ6_9RHIZ | E. SSTY | CALCSRLRLRPPL | .LPHRAGG | GCSLVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A084UBG3\|A0A084UBG3_9RHIZ | E. NRTY | CALCSRLRRGHLY | .RIAREEE | GCSLVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2S9IKS0\|A0A2S9IKS0_9RHIZ | E. NQTY | CALCSRLRRGNLY | .RVAREEE | GCSALVLGHHH | EDILETF | FFMNF | FHGR | LAAMP |
| tr\|A0A2K9ECD1\|A0A2K9ECD1_9RHOB | T. GRTY | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A258ELF7\|A0A258ELF7_9RHOB | P. GGTM | CALCSRLRRGNLY | .RIAREEE | GCESTVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2M8N1N7\|A0A2M8N1N7_9RHOB | P. GGTM | CALCSRLRRGNLY | .RIAREEE | GCESTVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A0Q6CSE7\|A0A0Q6CSE7_9RHIZ | A. GSTY | CALCSRLRRGHLY | .RIAREEE | GCEALVLGHHH | EDCLETFF | FFMNL | FHGR | LAAMP |
| tr\|A0A2D7LFX0\|A0A2D7LFX0_9RHOB | E. GRTF | CALCSRLRRGHLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2D8YFN5\|A0A2D8YFN5_9RHOB | E. DRTF | CSMCSRLRRGILY | .RIAREEE | GCEAIVLGHHH | DDALETFF | FMNL | FVHGR | LAAMP |
| tr\|A0A0M3T332\|A0A0M3T332_9RHIZ | H. TQTY | CALCSRLRQGHLY | .RIAREEE | HCSALVLGHHH | DDVLETFF | FMNL | FHAG | LAAMP |
| tr\|A0A0M6XVB7\|A0A0M6XVB7_9RHOB | A. GRTF | CALCSRLRRGNLY | .RVAREEE | GCSAVVLGHHH | DDILETF | FFLNLF | FHGR | LAAMP |
| tr\|W6VXL4\|W6VXL4_9RHIZ | E. GATT | CALCSRLRRGNLY | .RIAREEE | GCDALVLGHHH | EDILETF | FFMNF | FHGR | LAAMP |
| tr\|K2NTH0\|K2NTH0_9RHIZ | E. TATY | CALCSRLRRGHLY | .RVAREEE | GCSALVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|K2MG66\|K2MG66_9RHIZ | E. ASTY | CALCSRLRRGHLY | .RVAREEE | GCAALVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A0Q8IP21\|A0A0Q8IP21_9RHIZ | A. GATT | CALCSRLRRGNLY | .RIAREEE | GCTALVLGHHH | DDSLETF | FFMNM | FHGR | LAAMP |
| tr\|A0A0F5FNU3\|A0A0F5FNU3_9RHIZ | E. GATT | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | DDSLETF | FFMNL | FHGR | LAAMP |
| tr\|A0A0F5LYW5\|A0A0F5LYW5_9RHIZ | A. GATT | CALCSRLRRGNLY | .RIAREEE | GCSALVLGHHH | DDSLETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1E4BZ93\|A0A1E4BZ93_9RHIZ | A. GKTY | CALCSRLRRGHLY | .RVAREEE | GCHAVVLGHHH | EDILETF | FFLNLF | FHGR | LAAMP |
| tr\|A0A1G3G740\|A0A1G3G740_9RHOB | P. GGTM | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1G7GDX2\|A0A1G7GDX2_9RHOB | P. GGTM | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A238URK6\|A0A238URK6_9RHOB | P. GGTM | CALCSRLRRGNLY | .RVAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1E4FYF9\|A0A1E4FYF9_9RHIZ | A. GATT | CALCSRLRRGNLY | .RIAREEE | GCTALVLGHHH | DDSLETF | FFMNL | FHGR | LAAMP |
| tr\|A0A0F5QJ07\|A0A0F5QJ07_9RHIZ | A. GATT | CALCSRLRRGNLY | .RIAREEE | GCTALVLGHHH | DDSLETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1G3G740\|A0A1G3G740_9RHOB | P. GGTM | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2S1C1I6\|A0A2S1C1I6_9RHOSH | P. GGTM | CALCSRLRRGNLY | .RIAREEE | GCESTVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1M7SPV7\|A0A1M7SPV7_9RHOB | A. GRTY | CALCSRLRRGHLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|M9RLX6\|M9RLX6_9RHOB | M. GRTM | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNM | FHGR | LAAMP |
| tr\|A0A238K9T4\|A0A238K9T4_9RHOB | A. GRTM | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNM | FHGR | LAAMP |
| tr\|A0A1Y5S1U1\|A0A1Y5S1U1_9RHOB | E. GRTF | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNM | FHGR | LAAMP |
| tr\|A0A1I3LLP4\|A0A1I3LLP4_9RHOB | A. GRTY | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFLNLF | FHGR | LAAMP |
| tr\|A0A1I3Z0S5\|A0A1I3Z0S5_9RHIZ | E. GRTY | CALCSRLRRGHLY | .RIAREEE | GCSLVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1T4LDM3\|A0A1T4LDM3_9RHIZ | E. GATT | CALCSRLRRGHLY | .RVAREEE | GCEALVLGHHH | DDALETFF | FMNL | FHGR | LAAMP |
| tr\|C7D7D6\|C7D7D6_9RHOB | E. GRTY | CALCSRLRRANLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A0R2TQ71\|A0A0R2TQ71_9RHOB | A. GHM | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1Q3KQX4\|A0A1Q3KQX4_9RHIZ | E. GN TY | CALCSRLRRGHLY | .RIAREEE | GCAALVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2T7FWC9\|A0A2T7FWC9_9RHOB | A. GRM | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2D7D4Q1\|A0A2D7D4Q1_9RHOB | A. GR TY | CALCSRLRRGHLY | .RIAREENC | GSAVVLGHHH | DDILETF | FFMNI | FHGR | LAAMP |
| tr\|B6B0B9\|B6B0B9_9RHOB | A. GR TF | CALCSRLRRGNLY | .RVAREEE | GCTAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1H3LLW2\|A0A1H3LLW2_9RHOB | Q. GR TF | CALCSRLRRGNLY | .RIAREEE | GCTAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1I0XGW3\|A0A1I0XGW3_9RHOB | Q. GR TF | CALCSRLRRGHLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|LONFM3\|LONFM3_9RHIZ | E. GATT | CALCSRLRRGNLY | .RIAREEE | GCDALVLGHHH | EDILETF | FFMNF | FHGR | LAAMP |
| tr\|A0A0G6EW32\|A0A0G6EW32_9RHIZ | A. GATT | CALCSRLRRGNLY | .RIAREEE | GCEALVLGHHH | DDSLETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2G6IVP7\|A0A2G6IVP7_9RHOB | E. GR TF | CALCSRLRRGHLY | .RIAREENC | GSAIVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2D9RGP6\|A0A2D9RGP6_9RHOB | E. TK TY | CALCSRLRRGILY | .RIAREEE | KCDALVLGHHH | DDALETFF | FMNL | FHGR | LAAMP |
| tr\|A0A0K0TWP8\|A0A0K0TWP8_9RHIZ | A. GATT | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | EDDSLETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2Y9AFJ0\|A0A2Y9AFJ0_9RHOB | A. GR TY | CALCSRLRRANLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFLNLF | FHGR | LAAMP |
| tr\|A0A1H8A7L7\|A0A1H8A7L7_9RHOB | V. GR TL | CTMCSRLRRANLY | .RIAREEE | GCTAVVLGHHH | DDILETF | FFLNLF | FHGR | LAAMP |
| tr\|A0A081MIH6\|A0A081MIH6_9RHIZ | E. GATT | CALCSRLRRGNLY | .RVAREEE | GCDALVLGHHH | EDILETF | FFMNF | FHGR | LAAMP |
| tr\|A0A2E2EWC2\|A0A2E2EWC2_9RHOB | Q. GR TY | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFLNLF | FHGR | LAAMP |
| tr\|A3VF87\|A3VF87_9RHOB | E. GR TF | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1M5ABX1\|A0A1M5ABX1_9RHIZ | A. GR TY | CALCSRLRRGHLY | .RVAREEE | GCSALVLGHHH | EDILETF | FFLNLF | FHGR | LAAMP |
| tr\|A0A059X5C8\|A0A059X5C8_9BACT | E. GSTY | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1M6C338\|A0A1M6C338_9RHIZ | A. GG TY | CALCSRLRRGNLY | .RIAREEE | GCEALVLGHHH | DDSLETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1K2HSP5\|A0A1K2HSP5_9RHIZ | A. GATT | CALCSRLRRGNLY | .RIAREEE | GCSALVLGHHH | EDDSLETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2G1QM78\|A0A2G1QM78_9RHIZ | Q. GATT | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1L3SU86\|A0A1L3SU86_9RHIZ | Q. GSTY | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2E0ITN2\|A0A2E0ITN2_9RHOB | E. NRTY | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1M3KM7\|A0A1M3KM7_9RHIZ | E. GATT | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | EDDSLETF | FFMNL | FHGR | LAAMP |
| sp\|Q11IV8\|TTCA_CHESB | E. NRTY | CALCSRLRRGHLY | .RIAREEE | GCSLVLGHHH | EDILETF | FFMNF | FHGR | LAAMP |
| tr\|A0A1M2Z5F2\|A0A1M2Z5F2_9RHIZ | E. GATT | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | EDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2S8EVT0\|A0A2S8EVT0_9RHOB | E. GR TY | CALCSRLRRGILY | .RVAREEE | GCTAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A1U9JUZ5\|A0A1U9JUZ5_9RHIZ | E. AQ TY | CALCSRLRRGILY | .RIAREEE | GCSALVLGHHH | DDALETFF | FMNL | FHGR | LAAMP |
| tr\|E6YQZ3\|E6YQZ3_9RHIZ | Q. TQ TY | CALCSRLRRGHLY | .RIAREEE | GCSALVLGHHH | DDVLETFF | FMNL | FHGR | LAAMP |
| tr\|A0A2D9WU28\|A0A2D9WU28_9GAMM | E. KQ TT | CPVCSRLRRGILY | .THAKKI | GASKIALGHHH | DDVLETFF | LMNL | FMYG | AKLKAMP |
| tr\|A0A254R6N5\|A0A254R6N5_9RHOB | A. GR TY | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|A0A2E1LQ03\|A0A2E1LQ03_9RHOB | A. DR TF | CALCSRLRRGILY | .RVAREEE | GCSALVLGHHH | DDALETFF | FMNL | NLNG | GR |
| tr\|A0A1I7CMN1\|A0A1I7CMN1_9RHOB | A. GR TF | CALCSRLRRGNLY | .RIAREEE | GCSAVVLGHHH | DDILETF | FFMNL | FHGR | LAAMP |
| tr\|K1JJ4D\|K1JJ4D_9BURK | E. GR NV | CSLCARLRGILY | .RVAGEMK | CNKIALGHHH | DDIVGTLL | LNLF | FYGR | KMAMP |
| tr\|S3CA62\|S3CA62_9BURK | E. GK NV | CSLCARLRGILY | .RVARET | CNRIALGHHH | DDIVGTLL | LNLF | FYGR | KMAMP |
| tr\|R7C157\|R7C157_9BURK | S. GK NV | CSLCARLRGILY | .RVAREL | CTKIALGHHH | DDIVGTLL | LNLF | FYGR | KMAMP |
| tr\|H3KHG5\|H3KHG5_9BURK | E. GK NV | CSLCARLRGILY | .RVASEM | CNKIALGHHH | DDIVGTLL | LNLF | FYGR | KMAMP |
| tr\|A0A2H5W0L3\|A0A2H5W0L3_9BACT | P. GT TA | CALCSRLRRGILY | .RLAKELRA | CTKIALGHHH | DDIMVLTLL | LVSV | FYGR | ITMPP |
| tr\|A0A0G4EZY9\|A0A0G4EZY9_9ALVE | E. GK TY | CALCSRLRRGILY | .TAEEI | GANKIALGHHH | DDALETFF | LMNI | HQGG | ITMPP |
| tr\|A0A1G1MFT4\|A0A1G1MFT4_9BACT | KETKPSDIN | CFWCSWNRRKALF | .ETAYRY | GCTKVALGHHH | DDIVETVLL | LNMF | FQGG | ITMPP |
| tr\|D6YZP9\|D6YZP9_DESAT | LA. A. E. EG. KNG | CYHCSSRRNRRLF | .ALAREHN | CNKIALGHHH | EDDIETFF | LNLF | YGGN | ITMPP |
| tr\|Q1NPM6\|Q1NPM6_9DELT | MA. A. E. EG. KNG | CYHCSSRRNRRLF | .ELAREHN | CNKIALGHHH | EDDIETFF | LNLF | YGGN | ITMPP |
| tr\|A0A1G1KMU0\|A0A1G1KMU0_9BACT | ISHKPSFAL | KKTQPAELS | .CFWCSWNRRKALF | .TLAEKF | GCRKVAFGHHH | QDDINETLL | LNMF | YGGN |
| tr\|A0A1V4Y2S8\|A0A1V4Y2S8_9DELT | LS. H. SAYNKK | NP. CFWCSRLRRKRLF | .EIAAQEK | CNRIALAHHQ | DDDIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A2HOM0T2\|A0A2HOM0T2_9BACT | K. GKSRKDIS | CFWCSWNRRKALF | .EVTNRFK | CTKIALGHHH | QDDDIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A2G6NFX5\|A0A2G6NFX5_9DELT | LA. H. RPNQ. ASA | CFCLCARLRKALF | .EHCRTDA | CNKIALGHHH | QDDDIETLL | LNLF | YAGH | ITMPP |
| tr\|A0A1V4XPE0\|A0A1V4XPE0_9DELT | LS. H. SDYNKK | NP. CFWCSRLRRKRLF | .EIAAGDK | CNKIAFAHHH | QDDMIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A0F0CSK6\|A0A0F0CSK6_9BACT | N. N. KNTN | CFWCSWNRRKALF | .TLADEI | GYNKIAFGHHH | QDDIVETIL | LNLF | YGGN | ITMPP |
| tr\|A0A2H0LZG9\|A0A2H0LZG9_9BACT | K. KGQSRADIT | CFWCSWNRRKRLF | .KAATESI | CNKVALGHHH | QDDIVETVLL | LNLF | YGGN | ITMPP |
| tr\|A0A1H7YYF0\|A0A1H7YYF0_9DELT | LS. H. SDYNKK | NP. CFWCSRLRRKRLF | .EIAAGEK | CNRIALAHHQ | QDDDIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A1V5SHM5\|A0A1V5SHM5_9BACT | LA. H. SDFNKK | NP. CFWCSRLRRKRLF | .EIAAGEND | CNKVALGHHH | QDDMIETLL | LNLF | YGGN | ITMPP |
| tr\|A0A1G1Q3T7\|A0A1G1Q3T7_9BACT | L. DENKQT | CFWCSWNRRKALF | .EIADELNC | CNKIALGHHH | QDDIVETVLL | LNLF | YGGN | ITMPP |
| tr\|A0A2N5YRU6\|A0A2N5YRU6_9BACT | K. QSKPPQ | CFWCSWNRRKRLF | .ELSEELNC | CNKIALGHHH | QDDDIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A1V5BS52\|A0A1V5BS52_9DELT | K. GDSEFPF | CFWCSWNRRKALF | .DLAHELKC | CNKIAFAHHH | QDDDIETML | LNLF | YGGN | ITMPP |
| tr\|A0A1V4Y2C6\|A0A1V4Y2C6_9DELT | LS. H. SDYNKK | NP. CFWCSRLRRKRLF | .EIAAGEI | CNKIALAHHQ | QDDMIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A2M7F5M5\|A0A2M7F5M5_9BACT | EI. C. GAQNLPE | SC. CFHCSRIIRKRLF | .ETAREL | GCRKVAFGHHH | QDDMIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A2G6GY47\|A0A2G6GY47_9BACT | G. GQRKAKEAKVSGPQKKA | CFICSWHRKALF | .TLGKTLR | CNKIALGHHH | QDDDAVETLL | LNMF | YGGN | ITMPP |
| tr\|A0A2L1GPK6\|A0A2L1GPK6_9DELT | AN. G. SREHA. AGT | CFACARNRRKSLF | .RAARHL | CNKVALGHHH | QDDIVETVLL | LNLF | YAGH | ITMPP |
| tr\|A8ZUJ5\|A8ZUJ5_DESOH | VA. H. SDANR. ENP | CFCLCARLRKRLF | .EVSALD | CNKIALGHHH | QDDDIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A1E7JE91\|A0A1E7JE91_9DELT | QA. H. SKENR. ENP | CFCLCARLRKRLF | .ELAHEL | CNKIALGHHH | QDDDIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A1V5KTE6\|A0A1V5KTE6_9BACT | YA. H. SRHNS. NP | CYFLCSRIIRKRLF | .ETAERL | CNKIALGHHH | QDDDIETLL | LNMF | YGGN | ITMPP |
| tr\|A0A1G3NZH6\|A0A1G3NZH6_9SPIR | R. L. KPGKTMN | CFYCSNQRLLELM | .KLAEBERK | CNKIALGHHH | QDDIAETLL | LNMF | YGGN | ITMPP |
| tr\|A0A1V5CAM1\|A0A1V5CAM1_9DELT | K. PK. EDF | CFWCSWSRRKLVF | .SLMGKME | CNKIALGHHH | QDDDIETML | LNLF | YGGN | ITMPP |
| tr\|A0A117LC33\|A0A117LC33_9BACT | LE. V. AEKKI. TSP | CFWCSWSRRKLVF | .KLAETWKA | CNKIAFGHHH | QDDDLTFF | LNLF | YGGN | ITMPP |
| tr\|A0A1G1LQR4\|A0A1G1LQR4_9BACT | K. GKEKWED | ID. CFWWSKNRRKALF | .LFCGR | LFNKIAFGHHH | QDDDIETIL | LNQFY | RG | ITMPP |

| | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------|------|----------------|---------------|---------|------------|-------------|----------|--------|--------|--------|-----|-----|----|----|---|
| tr\|A0A1V5I5K2\|A0A1V5I5K2_9SPIR |F..SNPD | SR | CFYCSWHRRKALF | GLMREG | GF | SRLAFGHH | DDIET | LI | LNMTF | NAR | LT | MP | LR | L | | |
| tr\|A0A1Y1CNQ1\|A0A1Y1CNQ1_9BACT |R..PSKK | PA | CFRCSWHRRTT | LF | KMTDEF | KCNKIALGHH | DDAIE | TLL | MNMY | QGA | ICS | MP | AK | L | | |
| tr\|A0A1Y1S2G7\|A0A1Y1S2G7_9SPTO |R..L.KPGRS | LN | CYWCSTQRRME | LL | RYAEAH | DGVALGH | DDVLE | TLL | MNMY | QGA | ICS | MP | PM | V | | |
| tr\|A0A2N2Z2D1\|A0A2N2Z2D1_9BACT |I..DERKPA | CF | ICSWKRRKALF | AIARER | G | CNKIAFGHH | DDAIE | TLL | MNMY | QGA | ICS | MP | PK | L | | |
| tr\|A0A1V6ALY3\|A0A1V6ALY3_9DELT | ..LA.....H..SDFNRK | NP | CFCLCSRLRRK | IF | EIADEN | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | PK | | |
| tr\|A0A0W8FQ52\|A0A0W8FQ52_9ZZZZ | ..LA.....H..SDANKK | NP | CFCLCSRLRRK | IF | EIADAE | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|E4T2Z7\|E4T2Z7_PALPW |DTHKST | CF | CLCSWHRRKALF | DVARNL | G | CNKIALGHH | DDIET | TLL | LNLFY | QGS | FT | MP | PK | L | | |
| tr\|A0A1G1KV78\|A0A1G1KV78_9BACT |SEERWEE | ID | CFRWSRHRRTA | LF | DLADRQ | G | CNKIAFGHH | DDIAE | TIL | LNQFY | RG | E | IAS | MR | | |
| tr\|A0A2N2HPG2\|A0A2N2HPG2_9DELT | ..VA.....H..SDVNRK | NP | CFCLCSRLRRK | IF | EIAEER | G | CNKIAFAHH | DDIET | TLL | LNLFY | GRE | IST | MP | PM | | |
| tr\|A0A2G6MFG2\|A0A2G6MFG2_9DELT | ..T.....I..TGSEA | VOI | CFRCSRSRRKQ | LF | DHAGEQ | G | CNKIALGHH | DDIET | FF | LNLTCA | GN | IST | MP | PS | | |
| tr\|A0A0Q1C8R9\|A0A0Q1C8R9_9DELT | ..LA.....H..SDINNK | NP | CFCLCSRLRRK | IF | EIADAE | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|A0A1V6ISQ0\|A0A1V6ISQ0_9DELT | ..VA.....H..SDVNRK | NP | CFCLCSRLRRK | IF | EIADAE | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|A0A091FEB2\|A0A091FEB2_9DELT | ..LA.....H..SNINKK | NP | CFCLCSRLRRK | IF | EIADAE | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|A0A2N7PKR2\|A0A2N7PKR2_9BACT | ..FE.....A..VEKNT | ASP | CFVCSWYRRKY | FF | KLAKLN | IKKIAFGHH | DDVIV | FF | IKMFY | CGE | LS | TIL | PK | Q | | |
| tr\|A0A2N2G9N5\|A0A2N2G9N5_9DELT | ..LS.....H..SDFNRK | NP | CFCLCSRLRRK | IF | EIAEER | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|A0A2N2LSI7\|A0A2N2LSI7_9DELT | ..LS.....H..SDFNRK | NP | CFCLCSRLRRK | IF | EIAEER | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|A0A1W9PYD7\|A0A1W9PYD7_9DELT | ..VA.....H..SEENR | ENP | CFCLCSRLRRK | IF | EVCAEL | G | CNKIALGHH | DDIET | MF | ISMFY | GGE | SL | MP | PF | | |
| tr\|A0A0U5AFN2\|A0A0U5AFN2_9BACT | ..ME.....A..FDKGT | ASP | CFVCSWNRRKY | FF | NLADKL | IKKIAFGHH | DDVIT | FF | MNMFY | CGE | LS | TIL | PK | Q | | |
| tr\|A0A0N0D6Q9\|A0A0N0D6Q9_9DELT | ..IA.....H..GPNR | ENP | CFCLCARLRRK | IF | EIAEQH | G | CNKVALGHNK | DDIET | LF | INMLY | AGE | ISS | MP | PL | | |
| tr\|A0A1F9B7K1\|A0A1F9B7K1_9DELT | ..LA.....H..SDVNRK | NP | CFCLCSRLRRK | IF | EIAASE | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|A0A1V5K7L8\|A0A1V5K7L8_9BACT | ..LA.....H..SDFNRK | NP | CFCLCSRLRRK | IF | EIAAES | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|E8RFH6\|E8RFH6_DESPD | ..GE.....G..EDARG | QDL | CFQCARSRR | QMF | EHARQT | G | CTKIAFGHH | DDIVET | FF | LNLTCA | GN | IST | MP | PR | | |
| tr\|A0A1V7E5Z2\|A0A1V7E5Z2_9BACT | ..LE.....A..KE.KK | VSP | CFVCSWFRKKH | LF | KLAGEV | G | CNKIAFGHH | DDIET | FF | LNLMCY | HGE | LA | TML | PK | | |
| tr\|A0A1W9PEQ4\|A0A1W9PEQ4_9BACT | ..LA.....H..SDFNRK | NP | CFCLCTRYRQ | CIY | QLAEQH | G | CNKIAYGHH | DDIET | TLL | INFFG | GRE | IST | MP | PK | | |
| tr\|A0A1G1CL22\|A0A1G1CL22_9BACT | ..LA.....H..SAFNR | ENP | CFCLCARLRRK | IF | ETAQEF | G | CNKVALGHHK | DDIET | FF | LNMFY | TGE | IST | MP | YQ | | |
| tr\|A0A1M7AKX7\|A0A1M7AKX7_9DELT | ..RA.....H..SDENR | ENP | CFCLCSRLRRK | IF | ELAQEM | G | CTKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | | |
| tr\|A0A1E7H3V6\|A0A1E7H3V6_9DELT | ..RA.....H..SPDNR | ENP | CFCLCAYLRKK | IF | ELAEWR | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | | |
| tr\|A0A1V4XEJ8\|A0A1V4XEJ8_9DELT | ..IS.....H..SSYNRK | NP | CFCLCSRLRRK | IF | EIAAER | G | CNKIAFAHH | DDIVET | FF | LNLMCY | TGE | IST | MP | YQ | | |
| tr\|A0A1F9LPM9\|A0A1F9LPM9_9DELT | ..FA.....A..E..DG | RSI | CFHCTRQRRK | IF | EIAEQH | G | CNKIAFAHH | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | | |
| tr\|A0A1V5DP79\|A0A1V5DP79_9DELT | ..LA.....H..SDFNRK | NP | CFCLCSRLRRK | IF | EIAAAR | G | CNKIAFAHH | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|A0A2N2KLB2\|A0A2N2KLB2_9DELT | ..VA.....H..SAVNRK | NP | CFCLCSRMRRK | IF | EIAAEK | G | CNKIAFAHHK | DDIET | TLL | INMFY | GRE | IST | MP | NQ | | |
| tr\|K0NEP7\|K0NEP7_DESTT | ..LA.....H..SDENR | SNP | CFCLCSWLRRK | IF | EIAEQE | G | CCKKIALGHNK | DDIET | FF | INICY | AGK | IG | TM | PK | | |
| tr\|R5PGT4\|R5PGT4_9BACT |E..DSGKA | PA | CFVCSWNRRKALF | EIAREH | G | CCKKIALGHH | DDAVES | LL | MSMFF | NGT | IAS | MP | PK | L | | |
| tr\|A0A2G6FDN7\|A0A2G6FDN7_9DELT | ..ED.....A..RKKT | NKQ | CFQCARSRR | QMF | QYASEN | G | CNKIALGHHK | DDIET | FF | LNLMCY | AGN | VT | MP | PK | | |
| tr\|A0A2G6SNS8\|A0A2G6SNS8_9DELT | ..YA.....H..GSENLK | SP | CFICSWNRKK | LF | DLAKEF | G | CNKIALGHTK | DDIAT | FF | LNLMCY | HGE | LA | TML | PK | | |
| tr\|F8C1Q1\|F8C1Q1_THEGP | ..IE.....A..FEKD | SAP | CFVCSWHRKK | IF | KLAEQ | G | CNKIAFGHH | DDAI | ITFF | INMFY | HGE | LA | TML | PK | | |
| tr\|A0A2N2J4R6\|A0A2N2J4R6_9DELT | ..LA.....H..SDFNRK | NP | CFCLCSRLRRK | IF | EIAETE | G | CNKIAFAHH | DDIET | TLL | LNMFY | GRE | IST | MP | NQ | | |
| tr\|A0A175JL87\|A0A175JL87_ENTHI |DIEDADKNT | TF | CLNCGKNRRRA | LL | EYAKEH | G | YTSIALGHHM | DDVAE | TLL | MNQMF | C | GI | AG | IP | | |
| tr\|A0A2N7QBT7\|A0A2N7QBT7_9BACT | ..ME.....V..YEKDI | TAP | CFVCSWHRKK | IF | RLCOEK | G | CNKIALGHH | DDAI | ITFF | INMFY | HGE | LA | TML | PK | | |
| tr\|A0A1V6CH87\|A0A1V6CH87_9DELT |KGEDES | FT | CFVCSWNRRKALF | DLAHLN | G | CTKIAFAHH | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | | |
| tr\|A0A1F3PRW0\|A0A1F3PRW0_9BACT |R..ADEKH | G | CFICAWHRRK | LF | DLSREIN | C | CNKIALGHH | DDAVQ | QOL | MNMLY | HGE | LA | TML | PK | | |
| tr\|A0A1F9NE61\|A0A1F9NE61_9DELT | ..LA.....H..SRENT | ENP | CFCLCSRLRRN | LF | EMAKEE | G | CCKIALGHNK | DDIET | FF | LNMFY | SGK | MA | TM | PK | | |
| tr\|A0A0S8HC42\|A0A0S8HC42_9BACT |L..KPEKT | P | CFICSWNRKK | IF | EKSKEL | R | CNKVALGHHK | DDAI | IT | MNMLY | HGE | LA | TML | PK | | |
| tr\|A0A1T5DAY4\|A0A1T5DAY4_9BACT |D.KRK | SP | CFCLCSWTRRKALF | DLAKYK | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | | |
| tr\|A0A2N6C0V8\|A0A2N6C0V8_9DELT | ..LA.....H.....TS | ST | CFHCCARNRRALF | NLARDM | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | | |
| tr\|A0A1V5PLF0\|A0A1V5PLF0_9BACT |K.RP | SPY | CSFCSRLRRGILY | DMARKFK | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | | |
| tr\|A0A2G6GMA7\|A0A2G6GMA7_9DELT | ..LA.....H..DTONT | GNP | CFCLCSRLRRK | IF | ELAKAY | G | CCKVALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1F3EKI2\|A0A1F3EKI2_9BACT |D..QKNNP | ENP | CFVCSWNRRKALF | ETAQES | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | | |
| tr\|A0A0S8K9N6\|A0A0S8K9N6_9BACT | ..RA.....H..SQENQ | KNP | CFCLCARLRRK | IF | ELAEET | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A2J6HPZ6\|A0A2J6HPZ6_9BACT |N..RGKK | TP | CFVCSWHRKKALF | SFAVEH | G | CNKIALGHHK | DDAVET | LM | INMVF | HGN | ISS | LP | GK | L | | |
| tr\|C7XC62\|C7XC62_9BACT |DTRKS | P | CFCLCSWTRRKALF | EIAKAH | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | | |
| tr\|A0A1F8ZXS7\|A0A1F8ZXS7_9DELT | ..RA.....H..GPGNK | ENP | CFCLCSWLRRK | IF | ELSKTL | Q | CTKIAFGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A2J6I6B5\|A0A2J6I6B5_9BACT |S..RGKK | SA | CFICSWNRKK | LF | QYADNN | F | CNKIAFGHH | DDAVET | LI | INMVF | HGN | ISS | LP | GK | L | |
| tr\|A0A0F8WA15\|A0A0F8WA15_9ZZZZ |V..DSKKA | P | CFICSWYRRK | LF | EMTKLN | C | CNKIALGHHK | DDAI | IT | MNMLY | HGE | LA | TML | PK | L | |
| tr\|A0A179D358\|A0A179D358_9BACT | ..ME.....A..ADAGT | ASP | CFVCSWHRKK | IF | RLAGEE | N | CNKIAFGHH | DDIVV | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|I5B503\|I5B503_9DELT | ..VA.....H..SDKNK | ENP | CFCLUSRLRRK | IF | ELAREH | D | CCKKIALGHNK | DDIET | FF | INICY | AGK | IG | TM | PK | L | |
| tr\|A0A0S7YQR2\|A0A0S7YQR2_9DELT | ..RA.....H..GPNR | ENP | CFCLCSWNRRK | IF | EIAEQL | G | CNKVAFGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A2N1RRG9\|A0A2N1RRG9_9SPTR |R..DKNK | SI | CFICCSWLRRK | IF | DFVRKE | G | CNKIAFGHH | DDAIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1V5PXE4\|A0A1V5PXE4_9CHLR |E.....SLPL | D | CFRCTQLRRKALF | RAAVRH | G | CNKVAFGHH | DDAI | IT | LNLMCY | TGE | IST | MP | YQ | L | L | |
| tr\|A0A1W1HKF9\|A0A1W1HKF9_9DELT | ..LA.....H..SDSNR | ENP | CFCLCSRLRRK | IF | EIASDE | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1G3QGU5\|A0A1G3QGU5_9SPTR |R..DPKK | TV | CFVCSAWHRRK | LF | NCTKEL | C | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1Y3VSZ0\|A0A1Y3VSZ0_9BACT |V..NPKK | PA | CFVCSWHRKKALF | DIAKEY | D | CCKKIALGHH | DDAVES | LL | MSMFF | NGT | IAS | MP | PK | L | | |
| tr\|A0A0S8HXB5\|A0A0S8HXB5_9DELT | ..LS.....H..SDYNRA | SP | CFCLCSRLRRK | IF | ELAREY | R | CNKVALAHTK | DDVIE | TLL | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A2J0MGG8\|A0A2J0MGG8_9BACT |K.GKSRAE | IT | CFVCSWNRRRALF | EIAKEY | G | CNKIAFGHHK | DDIVAT | FF | LNLMCY | TGE | IST | MP | YQ | L | L | |
| tr\|A0A2N5YKJ4\|A0A2N5YKJ4_9BACT |N.....RSK | SPY | CFYCSWVRK | EF | LMADEN | C | CNKIAFGHH | DDVNET | LI | MNMLY | HGE | LA | TML | PK | L | |
| tr\|A0A0C3MX87\|A0A0C3MX87_9PORP |Q..NPKK | PA | CFVCSWHRKK | LF | DIAKEO | H | CCKKIALGHH | DDAVES | LL | MSMFF | NGT | IAS | MP | PK | L | |
| tr\|A0A1Q6ILQ5\|A0A1Q6ILQ5_9BACT |E..DSGK | PV | CFVCSWNRRK | IF | GIAKEY | G | CNKIALGHHK | DDAIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A235BV29\|A0A235BV29_9BACT |K..LK | ATK | TD | CFCCARERRKALF | ETASEF | G | CCKKIALGHH | DDVNET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|C0QKM8\|C0QKM8_DESAH | ..VA.....H..SDENQ | ENP | CFCLCSRLRRK | IF | EIARDQ | G | CNTIALGHNK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1G3KZR6\|A0A1G3KZR6_9SPTR |E..S.KKDKP | VS | CFVCSWLRRY | LF | KIADQM | G | IKKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A0S8CMA5\|A0A0S8CMA5_9DELT | ..AA.....A..E..G | KSV | CYHCARLRRN | LF | EIAEEO | G | SKMAFGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1F9KX79\|A0A1F9KX79_9DELT | ..LA.....H..SPENT | ENP | CFCLCSRLRRN | LF | EMAKEO | G | CCKKIALGHNK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1V1WTT4\|A0A1V1WTT4_9DELT | ..QG.....H..SAENR | ENP | CFCLCARLRRK | IF | EIADEL | G | CNKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1V5D1F3\|A0A1V5D1F3_9DELT |NGIEEN | SG | CFVCSWNRRKGLF | NLARDI | G | CCKKIALGHH | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | L | |
| tr\|R5UPE7\|R5UPE7_9BACT |E..NSGKA | PA | CFVCSWNRRKALF | EIAKEW | G | CTKIALGHHK | DDAVES | LL | MSMFF | NGT | IAS | MP | PK | L | | |
| tr\|A0A1W9N5C1\|A0A1W9N5C1_9DELT | ..VG.....H..SAENR | ENP | CFCLCSRLRRK | IF | EIADEL | G | CCKKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1V4WN49\|A0A1V4WN49_9DELT |TGDIEN | LD | CFVCSWNRRKAVF | DLAGDL | G | CNKIAFAHH | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | L | |
| tr\|A0A1G5FPP5\|A0A1G5FPP5_9DELT | ..EA.....H..KDTQS | ANP | CFICSLRRK | LF | ELTSEL | G | CRTIALGHNK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A0S8CTV5\|A0A0S8CTV5_9DELT | ..AA.....A..E..EG | KSV | CYHCARLRRN | LF | ALAEQ | G | CNKIAFGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1W9LXP4\|A0A1W9LXP4_9DELT | ..IG.....H..SDENR | ENP | CFCLCSRLRRK | IF | EIAEEL | G | CCKKIALGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1W9TE89\|A0A1W9TE89_9DELT | ..VG.....H..GPNR | ENP | CFCLCSRLRRK | IF | EIAEEL | G | CCKKIALGHNK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1W9MR5F\|A0A1W9MR5F_9DELT | ..IA.....H..SPQNR | ENP | CFCLCARLRRK | IF | EIADEL | G | CCKKIALGHNK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1F9XAQ0\|A0A1F9XAQ0_9BACT |V..P..G | GEKK | IN | CFWCANRRK | TF | TLAKEL | G | SKVALAHH | DDVET | FF | LNLMCY | TGE | IST | MP | YQ | L |
| tr\|A0A2N1TLK9\|A0A2N1TLK9_9SPTR |E..Q | ALSP | CFCLCSWHRK | LF | RFCEHR | G | CCKKIALGHH | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A2J0L3R7\|A0A2J0L3R7_9BACT |K..DPKK | NP | CFVCSWHRK | LF | RLAAKL | C | CCKKIALAHH | DDIET | IT | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|S7VA23\|S7VA23_DESML | ..LS.....H..SDVNL | ENP | CFCLCSRLRRK | IF | EVAREL | G | CCKKIALGHNK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A0S8AN01\|A0A0S8AN01_9DELT | ..TA.....A..A..V | GL | CYHCARLRRN | LF | EIAEEQ | G | CNKISFGHHK | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1V6ILX3\|A0A1V6ILX3_9DELT |NNK | GDYN | CFVCSWNRRK | LF | NLAHEK | G | TKIVFAHH | DDIET | FF | LNLMCY | TGE | IST | MP | YQ | L | |
| tr\|A0A1G | | | | | | | | | | | | | | | | |

tr|K0TEQ7|K0TEQ7_THAOC E. GKAY C|S|L|C|R|L|R|R|G|V|L|Y T|V|A|H|E|L|Q|C|N|K|I|A|L|G|H|H|G|D|D|S|M|E|T|L|L|L|N|M|V|H|G|G|T|L|K|G|M|P|A|R|Y
tr|A0A1F7WSR4|A0A1F7WSR4_9BACT K. AKDG C|F|Y|C|S|R|Q|R|R|S|I|L|F R|L|A|D|A|N|N|C|Q|K|V|A|L|G|H|H|M|D|D|F|I|E|T|A|L|M|A|M|Y|N|G|R|I|E|T|M|L|P|I|F
tr|A0A1V5UNH9|A0A1V5UNH9_9BACT K. AKDG C|F|Y|C|S|R|Q|R|R|S|I|L|F R|L|A|D|A|N|N|C|Q|K|I|A|L|G|H|H|L|D|D|F|I|E|T|A|L|M|S|M|Y|N|G|R|I|E|T|M|L|P|I|F
tr|D8EW05|D8EW05_9DELTA H. GAENRE C|F|L|C|R|M|R|R|K|L|L|F E|M|A|D|A|L|E|C|N|R|I|A|L|G|H|H|K|D|D|I|E|T|L|F|L|N|I|F|Y|G|A|S|I|S|T|L|P|V|Q
tr|A0A2M7WL85|A0A2M7WL85_9BACT A. DDM C|S|F|C|S|R|L|R|R|G|V|L|Y D|V|C|L|K|L|G|Y|N|K|I|A|L|G|H|N|A|D|D|V|I|E|T|L|L|L|N|Q|F|Y|S|G|A|L|S|G|M|P|K|L|
tr|A0A2N2L507|A0A2N2L507_9DELTA H. SDYNKN C|F|L|C|R|L|R|R|G|V|L|Y E|I|A|A|E|G|C|N|K|I|A|F|A|H|R|D|D|I|E|T|L|L|I|N|M|F|Y|G|R|E|I|S|T|L|P|N|Q
tr|A0A2V8MSX9|A0A2V8MSX9_9BACT H. G. C|D|I|C|S|R|H|R|R|Y|N|L|Y K|I|A|T|E|L|H|C|G|V|L|A|L|G|H|T|A|D|D|C|A|E|S|L|L|R|N|V|L|F|N|G|R|I|A|S|L|P|V|S
tr|A0A2V8IYI6|A0A2V8IYI6_9BACT H. G. C|D|V|C|R|H|R|R|Y|N|L|Y K|I|A|S|E|L|Q|C|S|V|L|A|L|G|H|T|A|D|D|C|A|E|S|L|L|R|N|V|L|F|N|G|R|I|A|S|L|P|T|S
tr|A0A1Q7Q2X8|A0A1Q7Q2X8_9BACT H. G. C|D|V|C|R|H|R|R|Y|N|L|Y K|I|A|S|E|L|Q|C|S|V|L|A|L|G|H|T|A|D|D|C|A|E|S|L|L|R|N|V|L|F|N|G|R|I|A|S|L|P|V|S
tr|A0A1E7FQ90|A0A1E7FQ90_9STRA P. DK C|T|M|C|S|R|L|R|R|G|I|Y S|K|A|I|E|L|Q|C|N|K|I|V|L|G|H|H|A|D|D|S|L|E|T|L|V|L|N|L|H|V|G|Q|M|K|A|P|A|Y|
tr|W0E7L8|W0E7L8_MARPU GDSF C|A|Y|C|S|R|M|R|R|G|I|Y R|L|C|R|E|H|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|L|M|S|L|F|H|G|Q|L|R|T|M|K|A|Y|
tr|W0DRV9|W0DRV9_9GAMM KDSF C|A|F|C|A|R|M|R|R|G|I|Y R|T|A|R|E|Q|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A0U5IH88|A0A0U5IH88_9GAMM GDSF C|A|Y|C|S|R|M|R|R|G|I|Y R|I|C|R|E|Q|G|Y|G|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|L|M|S|L|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1F6SXEO|A0A1F6SXEO_9PROT GDSF C|A|F|C|A|R|L|R|R|G|V|L|Y D|V|A|R|K|E|G|Y|N|V|L|A|L|G|H|H|L|D|D|L|A|E|S|F|L|M|S|A|F|F|G|G|R|L|G|T|M|K|A|Y|
tr|A0A259RK82|A0A259RK82_9GAMM GDSY C|A|F|C|A|R|M|R|R|G|I|Y K|A|A|R|R|E|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|K|L|N|T|M|K|A|Y|
tr|A0A2M7W840|A0A2M7W840_9PROT N.ASY C|S|F|C|S|R|L|R|R|G|I|Y Q|I|A|R|T|Q|G|Y|N|V|L|A|L|A|H|H|Q|D|D|I|A|Q|S|F|L|M|S|A|F|Y|N|G|K|L|W|T|M|A|P|N|Y|
tr|A0A1V5H9F1|A0A1V5H9F1_9BACT A.ERP C|A|F|C|S|R|L|R|R|G|Q|L|Y A|A|A|R|R|R|Q|C|N|V|I|A|L|G|H|H|M|D|D|L|C|V|S|F|L|M|S|V|F|R|G|G|L|R|T|M|A|P|V|C
tr|A0A0W1RTX5|A0A0W1RTX5_9GAMM GDSY C|S|F|C|S|R|L|R|R|G|I|Y R|L|A|R|D|K|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|M|S|A|F|H|G|K|L|N|T|M|K|A|Y|
tr|H1G0J5|H1G0J5_9GAMM NHSY C|S|F|C|S|R|M|R|R|G|I|Y R|T|A|R|E|Q|G|Y|N|V|I|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|L|R|T|M|K|A|Y|
tr|A0A1N6H77|A0A1N6H77_9GAMM GDSF C|S|F|C|A|R|K|R|R|G|I|Y T|V|C|R|R|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|L|R|T|M|K|A|Y|
tr|I3CE71|I3CE71_9GAMM RGD C|A|Y|C|S|R|M|R|R|G|I|Y S|T|A|R|Q|A|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|M|S|A|F|H|G|G|R|L|Q|T|M|K|A|Y|
tr|A0A1H6FDH4|A0A1H6FDH4_9GAMM GDSF C|A|Y|C|A|R|M|R|R|G|I|Y T|T|A|R|E|A|G|Y|N|V|L|V|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|F|G|Q|L|R|T|M|K|A|Y|
tr|A0A1Z4VND3|A0A1Z4VND3_9GAMM KDSY C|S|W|C|A|R|M|R|R|G|T|Y T|T|A|R|E|A|G|C|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|R|L|R|T|M|K|A|Y|
tr|A0A191Z1I6|A0A191Z1I6_9GAMM GDSY C|A|F|C|A|R|M|R|R|G|I|Y K|A|A|R|R|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|K|L|N|T|M|K|A|Y|
tr|A0A1B1YWK5|A0A1B1YWK5_9GAMM GRTL C|A|F|C|S|R|M|R|R|G|I|Y G|L|A|R|E|H|G|Y|N|T|L|A|A|H|H|L|D|D|V|A|E|T|F|L|M|N|A|F|F|G|Q|L|R|A|M|P|A|V|Y|
tr|A0A0G3G524|A0A0G3G524_9GAMM NDSF C|S|F|C|S|R|M|R|R|G|I|Y R|T|A|R|E|H|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|M|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1V2ZXF9|A0A1V2ZXF9_9GAMM NDSF C|S|F|C|S|R|M|R|R|G|I|Y R|T|A|R|E|H|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A0T5Z793|A0A0T5Z793_9GAMM GDSF C|S|Y|C|A|R|M|R|R|G|I|Y S|T|C|R|Q|Q|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|L|M|S|T|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A167BM25|A0A167BM25_9GAMM NHSY C|A|F|C|S|R|M|R|R|G|I|Y R|T|A|R|E|H|G|Y|T|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|A|F|N|G|R|L|R|T|M|K|A|Y|
tr|A0A1V6FEE6|A0A1V6FEE6_9BACT E.ERP C|S|L|C|R|L|R|R|G|Q|L|H A|A|D|R|L|N|C|N|K|I|A|L|G|Q|L|D|D|L|C|V|S|F|L|M|A|F|R|G|G|L|K|T|M|G|P|N|V|
tr|I3YFC1|I3YFC1_THIV6 GDSF C|A|Y|C|S|R|M|R|R|G|I|Y R|I|C|R|E|Q|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|L|M|S|L|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1V3NV21|A0A1V3NV21_9GAMM NDSY C|A|F|C|S|R|M|R|R|G|I|Y R|T|A|R|E|H|G|Y|N|V|I|A|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|L|R|T|M|K|A|Y|
tr|D3RS48|D3RS48_ALLVD GDSF C|A|Y|C|S|R|M|R|R|G|I|Y R|L|C|R|E|H|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|L|M|S|L|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A2I2A5R9|A0A2I2A5R9_9GAMM GDSF C|S|F|C|S|R|H|R|R|G|I|Y S|V|C|R|R|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|L|M|S|A|F|N|A|G|G|L|R|T|M|K|A|Y|
tr|A0A0S8L2L3|A0A0S8L2L3_9PROT GDSF C|A|Y|C|A|R|M|R|R|G|I|Y A|A|A|R|R|E|G|Y|D|V|L|V|M|G|Q|H|L|D|D|L|A|E|S|F|L|M|A|A|F|H|G|R|L|R|T|M|K|A|Y|
tr|A0A251X597|A0A251X597_9GAMM K.GDSY C|A|Y|C|A|R|M|R|R|G|I|Y T|T|A|R|Q|N|G|Y|N|T|L|V|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|R|L|R|T|M|K|A|Y|
tr|A1AWM5|A1AWM5_RUTMC GNSY C|S|F|C|A|R|I|K|R|G|I|Y Q|V|A|R|R|E|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|L|M|S|T|C|H|N|G|K|I|Q|T|M|K|A|Y|
tr|A0A2A4Y8M7|A0A2A4Y8M7_9GAMM KPSY C|A|F|C|S|R|I|K|R|G|I|Y R|V|L|R|D|E|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|S6AB33|S6AB33_9PROT GDSY C|A|Y|C|S|R|M|R|R|G|I|Y R|V|A|R|E|N|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|M|N|A|F|F|G|G|R|L|R|T|M|K|P|S|Y|
tr|B7J9K8|B7J9K8_ACIF2 RPSY C|S|F|C|A|R|M|R|R|G|V|L|Y R|C|A|R|R|E|G|Y|Q|V|L|A|L|G|Q|H|L|D|D|F|A|E|S|F|M|S|F|Y|N|G|K|L|R|T|M|K|A|Y|
tr|A0A2N2ADN2|A0A2N2ADN2_9GAMM D.PGFSF C|A|F|C|A|R|M|R|R|G|I|Y S|T|A|R|R|E|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|H|R|G|Q|L|R|T|M|K|A|Y|
tr|A0A1Y1QE10|A0A1Y1QE10_9GAMM NDSY C|A|F|C|S|R|M|R|R|G|I|Y R|T|A|R|E|H|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|K|L|T|M|K|A|Y|
tr|A0A1Y1QFH0|A0A1Y1QFH0_9GAMM NDSY C|A|F|C|S|R|M|R|R|G|I|Y R|T|A|R|E|H|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|K|L|T|M|K|A|Y|
tr|A0A1G5QYX5|A0A1G5QYX5_9GAMM E.KSFSF C|A|F|C|A|R|M|R|R|G|I|Y S|T|A|R|S|E|G|Y|N|V|I|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1I4R3K0|A0A1I4R3K0_ECTMO NHAY C|A|F|C|S|R|M|R|R|G|I|Y A|T|A|R|E|H|G|Y|N|V|V|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|R|L|R|T|M|K|A|Y|
tr|A0A0S8A3Y3|A0A0S8A3Y3_9GAMM KVSY C|S|F|C|S|R|M|R|R|G|I|Y A|T|A|R|E|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1I1V1C9|A0A1I1V1C9_9GAMM GDSF C|S|F|C|S|R|M|R|R|G|I|Y T|A|R|E|G|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|Q|L|R|T|M|Q|A|Y|
tr|A0A2S0KWB3|A0A2S0KWB3_9BACT E.GT C|V|L|C|R|L|R|R|G|Q|L|H G|L|A|A|E|G|C|G|K|I|A|L|G|Q|H|F|D|D|I|A|A|S|F|L|M|S|L|F|R|G|G|L|S|T|M|G|P|N|V|
tr|A0A1W9L8C2|A0A1W9L8C2_9GAMM K.AETSTA H.QSF C|A|F|C|A|R|M|R|R|G|I|Y T|T|A|R|Q|N|Y|T|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|Y|N|G|L|R|T|M|K|A|Y|
tr|A0A0S7ZXH3|A0A0S7ZXH3_9GAMM KLSH C|T|Y|C|A|R|I|K|R|N|I|Y A|T|A|R|R|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|S|F|Y|S|Q|L|R|T|M|K|A|Y|
tr|A0A1F3X099|A0A1F3X099_9PROT KDSY C|A|F|C|S|R|M|R|R|G|I|Y G|C|A|R|R|E|G|Y|K|V|L|A|L|A|Q|H|L|D|D|A|V|E|T|F|L|M|S|A|F|F|G|G|R|L|R|T|M|K|A|Y|
tr|A0A1G0KZY9|A0A1G0KZY9_9GAMM GDSF C|A|Y|C|S|R|M|R|R|G|I|Y R|L|C|R|K|H|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|L|M|S|L|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1W9X6P0|A0A1W9X6P0_9GAMM Q.RK C|A|Y|C|A|R|M|R|R|G|I|Y R|I|A|R|E|Q|D|C|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|T|L|Y|S|G|R|L|R|T|M|K|A|Y|
tr|F6DB14|F6DB14_THICA GDSF C|S|F|C|S|R|H|R|R|G|Q|L|Y T|V|C|R|E|G|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|T|E|S|F|V|M|S|A|F|N|A|G|Q|L|R|T|M|K|A|Y|
tr|A0A1V5UV62|A0A1V5UV62_9BACT ERNP C|M|L|C|R|L|R|R|G|I|Y T|L|A|K|K|L|R|C|N|K|I|A|L|G|Q|H|L|D|D|T|A|V|S|F|L|M|N|L|C|R|G|A|G|L|S|T|M|G|P|N|V|
tr|A0A1T2LC98|A0A1T2LC98_9GAMM GNSF C|A|Y|C|S|R|M|R|R|G|I|Y S|T|C|R|K|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|L|M|S|I|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A2N9YAV2|A0A2N9YAV2_9GAMM RGD C|A|Y|C|S|R|M|R|R|G|I|Y S|T|A|R|K|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|R|L|Q|T|M|K|A|Y|
tr|A0A2H6JDM1|A0A2H6JDM1_9BACT NTSF C|A|F|C|A|R|M|R|R|G|I|Y D|I|A|R|R|E|G|Y|T|V|L|A|L|G|Q|H|L|D|D|A|E|S|F|L|M|S|A|F|H|G|G|R|L|R|T|M|K|A|Y|
tr|A0A1Q4GEE4|A0A1Q4GEE4_9PROT SDSY C|A|Y|C|S|R|M|R|R|G|I|Y R|I|A|R|E|Q|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|T|L|M|S|L|F|G|G|K|L|R|T|M|S|P|H|Y|
tr|A0A257SZR7|A0A257SZR7_9GAMM NDSF C|A|F|C|S|R|M|R|R|G|V|L|Y D|T|A|R|R|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|V|A|E|S|F|L|M|S|A|F|H|G|G|R|L|R|T|M|K|A|Y|
tr|A0A1J4Z8U3|A0A1J4Z8U3_9PROT GDSF C|A|Y|C|S|R|M|R|R|G|I|Y R|T|A|R|Q|Q|G|Y|K|V|L|A|L|A|Q|H|L|D|D|L|A|E|T|F|M|S|A|F|F|G|G|R|L|R|T|M|K|A|Y|
tr|A0A258YXM3|A0A258YXM3_9PROT SDSF C|A|Y|G|S|R|M|R|R|G|I|Y R|I|A|R|E|Q|N|C|N|V|V|A|L|A|Q|H|L|D|D|L|A|E|T|L|M|S|L|F|G|G|K|L|R|T|M|S|P|H|Y|
tr|A0A2G6DJM5|A0A2G6DJM5_9PROT NNSY C|A|F|C|S|R|M|R|R|G|I|Y K|T|A|R|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|K|L|R|T|M|K|A|Y|
tr|A0A2V2ZH125|A0A2V2ZH125_9BACT TATP C|V|L|C|R|L|R|R|G|Q|L|Y G|L|A|R|E|L|A|C|N|K|I|A|L|G|Q|H|F|D|D|I|A|A|S|F|L|M|S|L|C|R|G|Q|L|S|T|M|G|P|N|V|
tr|S6BUZ7|S6BUZ7_9GAMM GDSF C|A|Y|C|A|R|M|R|R|G|I|Y S|T|C|R|R|H|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|P|A|F|H|G|G|R|L|R|T|M|K|A|Y|
tr|A0A1W1LDV63|A0A1W1LDV63_9ZZZZ GDSY C|S|F|C|S|R|I|K|R|G|I|Y K|V|A|R|E|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|S|E|S|M|S|C|H|N|G|K|I|Q|T|M|K|A|Y|
tr|A0A1W1LDVN7|A0A1W1LDVN7_9ZZZZ GDSY C|S|F|C|A|R|I|K|R|G|I|Y K|V|A|R|E|Q|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|L|M|S|M|C|H|N|G|K|I|Q|T|M|K|A|Y|
tr|L0GXD5|L0GXD5_9GAMM GDSF C|A|Y|C|A|R|M|R|R|G|I|Y R|L|C|R|E|Q|G|Y|G|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|L|M|S|I|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1B4V026|A0A1B4V026_9GAMM GDSF C|A|Y|C|A|R|M|R|R|G|I|Y D|V|A|R|R|E|D|Y|N|V|L|V|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|G|Q|L|R|T|M|K|A|Y|
tr|A0A1C2G3X4|A0A1C2G3X4_9GAMM NDSF C|S|Y|C|A|R|M|R|R|G|I|Y R|V|A|R|D|H|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|A|G|T|L|H|T|M|K|A|Y|
tr|A0A1T2L835|A0A1T2L835_9GAMM E.KPFSY C|A|Y|C|S|R|M|R|R|G|I|Y T|T|L|R|N|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|Y|R|G|Q|L|R|T|M|K|A|Y|
tr|A0A1Y0G9Z9|A0A1Y0G9Z9_9PROT GDSF C|A|Y|C|S|R|M|R|R|G|I|Y R|V|A|R|E|N|H|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|T|F|M|S|A|F|F|G|G|R|L|R|T|M|Q|A|Y|
tr|A0A090ADU8|A0A090ADU8_9GAMM HGKSF C|A|Y|C|A|R|M|R|R|G|I|Y S|T|A|R|Q|Q|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|Y|A|H|Q|L|R|T|M|K|A|Y|
tr|A0A0M1JJT8|A0A0M1JJT8_9GAMM GNSY C|A|Y|C|A|R|M|R|R|G|I|Y S|L|C|R|K|H|D|Y|N|V|L|A|L|A|Q|H|F|D|D|T|A|E|S|L|M|S|M|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A2G6C8I0|A0A2G6C8I0_9GAMM GDSY C|S|F|C|S|R|I|K|R|G|I|Y K|I|A|R|N|N|G|Y|N|V|I|A|L|G|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|W0TIV9|W0TIV9_9GAMM GDSF C|A|Y|C|A|R|M|R|R|G|I|Y S|T|C|R|E|Q|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A5CWN0|A5CWN0_VESOH GNSY C|S|F|C|A|R|I|K|R|G|I|Y Q|V|A|R|R|E|G|Y|N|V|L|A|L|G|H|H|L|D|D|L|A|E|S|L|M|S|M|C|H|N|G|K|I|Q|T|M|K|A|Y|
tr|A0A0E9MCP1|A0A0E9MCP1_9PROT GDSF C|A|F|C|A|R|M|R|R|G|I|Y R|T|A|R|E|N|G|Y|N|V|L|A|L|A|Q|H|L|D|D|A|E|T|F|L|M|S|T|F|F|G|G|K|L|R|T|M|Q|A|Y|
tr|V4JHL8|V4JHL8_9GAMM GDSF C|A|Y|C|A|R|M|R|R|G|I|Y R|L|C|R|E|Q|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|L|M|S|F|H|A|G|Q|L|R|T|M|K|A|Y|
tr|A0A1P8UKQ4|A0A1P8UKQ4_9GAMM NDSY C|A|F|C|A|R|M|R|R|G|V|Y S|T|A|R|R|E|G|Y|N|V|I|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|R|L|R|T|M|K|A|Y|
tr|A0A0S8DUY2|A0A0S8DUY2_9GAMM GDSF C|A|Y|C|S|R|M|R|R|G|I|Y T|T|V|R|N|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|F|L|M|S|A|F|H|G|Q|L|R|T|M|K|A|Y|
tr|H8Z182|H8Z182_9GAMM GDSF C|A|Y|C|A|R|M|R|R|G|I|Y R|L|C|R|E|H|G|Y|G|V|L|A|L|G|Q|H|L|D|D|L|E|S|M|S|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1F6TVT2|A0A1F6TVT2_9PROT GDSF C|A|Y|C|S|R|M|R|R|G|I|Y A|T|A|R|A|E|G|Y|N|V|L|V|A|Q|H|L|D|D|V|A|E|S|F|L|M|S|A|F|H|G|S|L|R|T|M|K|A|Y|
tr|A0A1E2UNR3|A0A1E2UNR3_9GAMM GDSF C|A|Y|C|A|R|M|R|R|G|I|Y S|T|C|R|N|Q|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|L|M|S|L|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A2T6NDJ0|A0A2T6NDJ0_9GAMM GNSF C|A|Y|C|A|R|M|R|R|G|I|Y T|T|G|R|E|G|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|S|L|M|S|F|H|G|Q|L|R|T|M|K|A|Y|
tr|A0A1H6M1D9|A0A1H6M1D9_9GAMM GDSY C|S|F|C|A|R|I|K|R|G|I|Y Q|V|A|R|R|E|G|Y|N|V|L|A|L|G|Q|H|L|D|D|L|C|E|S|L|M|S|M|F|H|N|G|K|I|Q|T|M|K|A|Y|
tr|E6QSG6|E6QSG6_9ZZZZ GDSF C|A|F|C|S|R|M|R|R|G|I|Y R|V|A|R|Q|H|D|Y|N|V|L|A|L|A|Q|H|L|D|D|L|A|E|T|F|L|M|S|M|F|F|G|G|R|L|R|T|M|K|A|Y|
tr|A0A1W1CJ00|A0A1W1CJ00_9ZZZZ GDSY C|A|F|C|A|R|M|R|R|G|I|Y K|V|A|R|N|D|Y|N|V|L|A|L|G|Q|H|L|D|D|L|A|E|S|L|M|S|M|C|H|N|G|K|M|K|T|M|K|A|Y|
tr|A0A2N6TKT8|A0A2N6TKT8_FUSU S.PENP C|F|L|C|A|K|M|R|R|G|V|L|Y

| | | | | | | | | | | | | |
|----------------------------------|----------------------------|------------|------|------|-------|-------------|--------|--------|-------|--------|----------|-------|
| tr\|G4D179\|G4D179_9FIRM | S . DGYP | CYMCARMRRG | NLY | . AK | AQEL | CNKALGHHF | DDVIET | IM | LNILF | AGNYKT | MMPKL | |
| tr\|A0A2N1QJ52\|A0A2N1QJ52_9BACT | A . KENP | CYLCARMRRG | LY | . KI | AKAN | CNKALGHHF | DDVIET | TL | LNMFY | AGQFKT | MLPKA | |
| tr\|D0GMS6\|D0GMS6_9FUSO | A . KDYP | CFLCAKMRRG | LY | . KK | VEEL | GYNKLT | LGHFF | DDVIET | TM | INMFY | AGTLKT | MLPKV |
| tr\|A0A0E3Z9Z8\|A0A0E3Z9Z8_9FUSO | D . PKKP | CYMCARLRG | GSLY | . SH | AVEL | CNKALGHHM | DDVDET | TV | MSMFY | MKGFTK | TMLPKL | |
| tr\|A0A094I1J11\|A0A094I1J11_9BACT | G . KNDP | CYMCARLRG | LY | . KM | AQDR | CNKALGHHF | DDVIET | TM | MNLYA | GTFK | TMLPKI | |
| tr\|A0A2N1Q4T2\|A0A2N1Q4T2_9BACT | N . PKAP | CFLCAKMRRG | LY | . QA | KDGL | CNKALGHHF | DDVIET | TL | MNMFY | AGTFK | TMLPKA | |
| tr\|A0A1W9SAA9\|A0A1W9SAA9_9BACT | N . PKAP | CFLCAKMRRG | LY | . QK | AKDL | CNKALGHHF | DDVIET | TL | MNMFY | AGTFK | TMLPKA | |
| tr\|A0A0E3UUB0\|A0A0E3UUB0_9FUSO | A . PDSP | CFLCAKMRRG | LY | . KE | LEKM | GYNKIALGHHF | DDVDET | TL | INMFY | AGTFK | TMLPKV | |
| tr\|A0A2A1ZTD9\|A0A2A1ZTD9_9BACT | A . KDYP | CYLCARMRRG | LY | . NL | AKEK | CNKALGHHF | DDVIET | TL | LNVL | YAGTFK | TMLPKV | |
| tr\|R5FR46\|R5FR46_9FIRM | G . GESF | CYLCARMRRG | LY | . DY | AKEE | CNKALGHHF | DDVIET | TL | LNLI | YAGE | IRTM | MLPKL |
| tr\|U7VDB0\|U7VDB0_9FUSO | S . PDSP | CFLCAKMRRG | LY | . SK | VEEL | GYNKALGHHF | DDLDET | TL | INMFY | AGTTK | TMLPKV | |
| tr\|A0A1T4JV61\|A0A1T4JV61_9FUSO | D . PNNP | CFLCAKMRRG | LY | . NK | VEEL | GYNKALGHHF | DDLDET | AL | INMFY | AGTITK | MLPKV | |
| tr\|A0A1E9ISJ7\|A0A1E9ISJ7_9FUSO | D . PESP | CFLCAKMRRG | LY | . NR | VEEL | GYNKALGHHF | DDVDET | TM | INMFY | AGTITK | MLPKV | |
| tr\|C3WD69\|C3WD69_FUSMR | D . PEGP | CFLCAKMRRG | LY | . NK | VEEL | GYNKALGHHF | DDVDET | TM | INMFY | AGTITK | MLPKV | |
| tr\|A0A017H8K4\|A0A017H8K4_9FUSO | D . PESP | CFLCAKMRRG | LY | . KK | VEEL | CNKALGHHF | DDVIET | TL | INLFY | ASTV | TKT | MLPKV |
| tr\|R5HS15\|R5HS15_9MOLU | T . DNP | CYMCARLRG | LY | . DF | AKKL | CNKALGHHF | DDVIET | VM | LNMLF | TGSF | STMLPKI | |
| tr\|A0A1W9W0E5\|A0A1W9W0E5_9BACT | N . PENP | CFLCAKMRRG | LY | . KK | VEEL | GYNKALGHHF | DDVIET | TM | INMFY | AGTITK | MLPKV | |
| tr\|A0A137SW00\|A0A137SW00_9FIRM | A . GERP | CYMCARMRRG | NLY | . AK | AKEL | CNKALGHHM | DDVDET | IL | LNIF | SANFKT | TMLPKL | |
| tr\|A0A2U1E5L2\|A0A2U1E5L2_9FIRM | A . ADNP | CFLCAKMRRG | LY | . GQ | AEKL | GANKIALGHHM | DDVDET | TL | MNMF | MQGSY | RNMMPIL | |
| tr\|A0A175JJ18\|A0A175JJ18_ENTHI | ED . AD . KNTF | CLNCGNRRAL | LY | . KF | AKEH | GFTSIALGHHM | DDVAET | LL | MNQLF | CGCVAT | IPAQF | |
| tr\|C3WD70\|C3WD70_FUSMR | E . VKNP | CFLCGRIRRG | LY | . RM | MKEQ | YNKIALGHHK | DDIET | FL | MNVFY | QGNM | KTMKPSY | |
| tr\|A0A1W9TJ18\|A0A1W9TJ18_9BACT | S . PQNP | CFLCAKMRRG | LY | . KK | AEEL | CNKALGHHF | DDIET | VL | INMFY | SGNITK | MLPKV | |
| tr\|A0A2G6MQK6\|A0A2G6MQK6_9DELT | HS D . E . NKANP | CFLCSRLRRK | LY | . EL | AREHD | CCKALGHNK | DDIET | LF | INIF | YAGKIT | GMTKPRQ | |
| tr\|A0A1W1BBY5\|A0A1W1BBY5_9ZZZZ | E . NSSF | CSFFSRMRRG | LY | . TY | AENN | GYNKVALGHHF | DDAVES | FF | MNMFY | NGS | IRSLAPIY | |
| tr\|I7H559\|I7H559_9HELI | E . GTIY | CSFCSRMRRG | LY | . SK | ALEY | GYNKIALAHHL | DDAAES | FF | MNLT | YNGAM | RSMPPIY | |
| tr\|V8C7C8\|V8C7C8_9HELI | E . GTIY | CSFCSRMRRG | LY | . TQ | ALQG | GYNKIALGHHL | DDAAES | FF | MNLT | YNGAL | RSMPPIY | |
| tr\|C3XIF2\|C3XIF2_9HELI | E . GTIY | CSFCSRMRRG | LY | . SM | ALER | GYNKIALAHHL | DDAAES | FF | MNLT | YNGAL | RSMPPIY | |
| tr\|A0A1Y1RC03\|A0A1Y1RC03_9PROT | E . NSY | CSFFSRMRRG | LY | . RA | ALEE | GFTTVALGHHL | DDAAES | FF | MNFL | YNGAL | RSMPPLY | |
| tr\|A0A1W1ED80\|A0A1W1ED80_9ZZZZ | E . NSSF | CSYFSRMRRG | LY | . TY | AEKG | GYNKVALGHHF | DDTVES | FF | MNMF | YNGS | MRALAPIY | |
| tr\|A0A1W1CKY4\|A0A1W1CKY4_9ZZZZ | E . NSSF | CSYFSRMRRG | LY | . TF | AEQG | GYNKVALGHHF | DDTVES | FF | MNMFY | NGT | MRALAPIY | |
| tr\|A0A1W9NWV6\|A0A1W9NWV6_9PROT | E . NSSF | CSYFSRMRRG | LY | . TF | AEQG | GYNKVALGHHF | DDTVES | FF | MNMFY | NGT | MRALAPIY | |
| tr\|I2K6H1\|I2K6H1_9PROT | E . NSSF | CSYFSRMRRG | LY | . SF | AEQG | GFTKVALGHHF | DDTVES | FF | MNMFY | NGS | MRALAPIY | |
| tr\|A0A1W1BSJ9\|A0A1W1BSJ9_9ZZZZ | E . NSSF | CSYFSRMRRG | LY | . SF | AEHG | GYNKIALGHHF | DDTVES | FF | MNMFY | NGS | MRALAPIY | |
| tr\|A0A2G2M8Q2\|A0A2G2M8Q2_9PROT | E . NSSF | CSYFSRMRRG | LY | . SF | AEHG | GFTKIALGHHF | DDTVES | FF | MNMFY | NGS | MRALAPIY | |
| tr\|A0A2G2MUF3\|A0A2G2MUF3_9PROT | E . NSSF | CSYFSRMRRG | LY | . SF | AEGN | GFTKVALGHHF | DDTVES | FF | MNMFY | NGS | MRALAPIY | |
| tr\|E6X2C6\|E6X2C6_NITSE | E . GSSF | CSYFSRMRRG | LY | . SF | AEKG | GYNKIALGHHF | DDAVES | FF | MNMFY | NGV | MRSLAPIY | |
| tr\|A0A2G6GA80\|A0A2G6GA80_9BACT | K . DSF | CSFFSRMRRG | LY | . EI | ARRK | GYNKIALGHHL | DDAVES | FF | MGLY | NGK | IRSLAPIY | |
| tr\|A0A0S4PKX8\|A0A0S4PKX8_9HELI | E . GTIY | CSFCSRMRRG | LY | . SK | ALEG | GYNKIALAHHL | DDAAES | FF | MNLT | YNGAM | RSMPPIY | |
| tr\|Q7VFR3\|Q7VFR3_HELHP | E . GTIY | CSFCSRMRRG | LY | . SK | ALEG | GYNKIALAHHL | DDAAES | FF | MNLT | YNGAM | RSMPPIY | |
| tr\|A0A2D3WHB1\|A0A2D3WHB1_9PROT | E . NSY | CSYFSRMRRG | LY | . TF | AEQN | GYNKVALGHHF | DDTVES | FF | MNMFY | NGT | MRALAPIY | |
| tr\|A0A1W1E1A6\|A0A1W1E1A6_9ZZZZ | E . NSSF | CSYFSRMRRG | LY | . SY | AEDN | GYNKVALGHHF | DDTVES | FF | MNMFY | NGT | MRAMAPIY | |
| tr\|A0A1W1CNU7\|A0A1W1CNU7_9ZZZZ | E . NSSF | CSYFSRMRRG | LY | . TY | AEKN | GFDKVALGHHF | DDTVES | FF | MNIF | YNGT | IRAMAPIY | |
| tr\|A0A0C2ZBG5\|A0A0C2ZBG5_9PROT | E . NSSF | CSYFSRMRRG | LY | . TF | AEQG | GYNKVALGHHF | DDAVES | FF | MNMFY | NGT | MRSLAPIY | |
| tr\|A0A0S4XP57\|A0A0S4XP57_9PROT | E . NSSF | CSYFSRMRRG | LY | . TF | AEQG | GFTKIALGHHF | DDAVES | FF | MNMFY | NGS | MRSLAPIY | |
| tr\|A0A099TV95\|A0A099TV95_9HELI | E . GSIY | CSFCSRMRRG | LY | . NI | ALQR | GYNKIALAHHL | DDAAES | FF | MNLT | YNGS | LRSMPPY | |
| tr\|A0A1W1E737\|A0A1W1E737_9ZZZZ | E . NSSF | CSYFSRMRRG | LY | . SF | AEQG | GFTKVALGHHF | DDMVES | FF | MNMFY | NGS | LRSLAPIY | |
| tr\|A0A268TK66\|A0A268TK66_9HELI | E . GSY | CSFCSRMRRG | LY | . SK | ALEY | GYNKVAIAHHL | DDAAES | FF | MNLT | YNGS | LRSLAPIY | |
| tr\|A0A268U7R3\|A0A268U7R3_9HELI | E . GSY | CSFCSRMRRG | LY | . SK | ALEM | GYNKVAIAHHL | DDAAES | FF | MNLT | YNGS | LRSLAPIY | |
| tr\|A0A268TAM2\|A0A268TAM2_9HELI | T . GSY | CSFCSRMRRG | LY | . AK | LEM | GYNKVAIAHHL | DDAAES | FF | MNLT | YNGM | LRSLAPIY | |
| tr\|A0A268TTH0\|A0A268TTH0_9HELI | E . GSY | CSFCSRMRRG | LY | . SK | ALEM | GYNKVAIAHHL | DDAAES | FF | MNLT | YNGAL | LRSMPPY | |
| tr\|V8CIS8\|V8CIS8_9HELI | E . GTIY | CSFCSRMRRG | LY | . TL | ALEG | GYNKIALGHHL | DDAVES | FF | MNLS | YNGAL | LRSMPPY | |
| tr\|A0A1W1CJT9\|A0A1W1CJT9_9ZZZZ | K . NSF | CSFFSRMRRG | LY | . SV | ALEL | GYNKVALGHHL | DDAAES | FF | MNFI | YNGM | LRSLAPKY | |
| tr\|G2HW59\|G2HW59_9PROT | K . NSF | CSFFSRMRRG | LY | . ST | AQEQ | GYNKVALGHHL | DDAMES | FF | MNFI | YNGT | MRSMPPY | |
| tr\|A6DBX7\|A6DBX7_9PROT | P . GSP | CGFCARMRRG | LY | . SK | AKEL | GYNKALGHHF | DDAVET | FF | MSMFY | NGM | KSMPPKY | |
| tr\|A0A099DQ03\|A0A099DQ03_9HELI | E . GTIY | CSFCSRMRRG | LY | . SK | ALEG | GYNKIALAHHL | DDAAES | FF | MNLT | YNGS | LRSMPPY | |
| tr\|A0A1V9VEV7\|A0A1V9VEV7_9PROT | K . NSF | CSFFSRMRRG | LY | . TT | ALEQ | GYNKVALGHHL | DDAMES | FF | MNLF | YNGT | MRTPPIY | |
| tr\|C5ZWI6\|C5ZWI6_9HELI | E . GSVY | CSFCSRMRRG | LY | . SK | ALEG | GYNKIALAHHL | DDAAES | FF | MNLT | YNGAL | LRSMPPY | |
| tr\|A0A099VW01\|A0A099VW01_9HELI | E . GSVY | CSFCSRMRRG | LY | . TK | ALEG | GYNKIALAHHL | DDAAES | FF | MNLT | YNGAL | LRSMPPY | |
| tr\|A0A099TJT3\|A0A099TJT3_9HELI | E . GTIY | CSFCSRMRRG | LY | . SK | ALEG | GYNKIALAHHL | DDAAES | FF | MNLT | YNGAL | LRSMPPY | |
| tr\|A0A259HBH4\|A0A259HBH4_9PROT | P . NSF | CSYFSRMRRG | LY | . SY | AQEG | GYNKVALGHHF | DDAMES | FF | MNMFY | NGT | MRSLAPIY | |
| tr\|Q3OQR3\|Q3OQR3_SULDN | K . NSF | CSFFSRMRRG | LY | . SA | QKY | CYNKVALGHHM | DDAAES | FF | MNFI | YNGQ | LRSLAPKY | |
| tr\|A0A1G3US09\|A0A1G3US09_9HELI | K . NSF | CSFFSRMRRG | LY | . SA | AEKY | CYNKVALGHHM | DDAAES | FF | MNFI | YNGQ | LRSLAPKY | |
| tr\|I3XVB8\|I3XVB8_SULBS | E . NSF | CSFFSRMRRG | LY | . TY | ALEH | GYNKIALAHHL | DDAVES | FF | MNFS | YNGT | LRSMPPKY | |
| tr\|B9L800\|B9L800_NAUPA | P . GSA | CGFCARMRRG | LY | . TK | ALEL | GYNKIALGHHF | DDAVET | FF | MSMFY | NGM | KSMPPKY | |
| tr\|A0A2U8FFP3\|A0A2U8FFP3_9HELI | E . GTIY | CSFCSRMRRG | LY | . SK | AIEG | GYNKIALAHHL | DDAAES | FF | MNLS | YNGAL | LRSMPPY | |
| tr\|A0A2D5P7H2\|A0A2D5P7H2_9PROT | K . NSF | CSFFSRMRRG | LY | . TA | ALEG | GYNKVALGHHL | DDAMES | FF | MNFI | YNGT | MRTPPIY | |
| tr\|A0A268U8R8\|A0A268U8R8_9HELI | E . GSY | CSFCSRMRRG | LY | . AK | AIEG | GYNKVAIAHHL | DDAAES | FF | MNLT | YNGS | LRSMPPY | |
| tr\|A0A1B1U570\|A0A1B1U570_9HELI | E . GTIY | CSFCSRMRRG | LY | . SK | ALEG | GYNKIALAHHL | DDAAES | FF | MNLS | YNGAL | LRSMPPY | |
| tr\|A0A099B6Z7\|A0A099B6Z7_9HELI | Q . GSIY | CSFCSRMRRG | LY | . QI | ALQQ | GYNKVALAHHL | DDAAES | FF | MNLT | YNGS | LRSMPPKY | |
| tr\|A0A0C2ZDN3\|A0A0C2ZDN3_9PROT | E . NSF | CSYFSRMRRG | LY | . NF | AQEH | GFTKVALGHHF | DDTVES | FF | MNMFY | NGS | MRAMAPIY | |
| tr\|A0A292YDX3\|A0A292YDX3_9PROT | P . GSP | CSFCARMRRG | LY | . TK | ALEL | GYNKALGHHF | DDAVET | FF | MGFLY | NGI | MRSMPPKY | |
| tr\|A7H006\|A7H006_CAMC5 | K . NSF | CSFFSRMRRG | LY | . TY | ALNG | GYNKIAIAHHL | DDAAES | FF | MNFI | YNGAL | LRSLAPKY | |
| tr\|U2F8G7\|U2F8G7_9PROT | K . NSF | CSFFSRMRRG | LY | . TY | ALKH | GYNKIAIAHHL | DDAAES | FF | MNFI | YNGAL | LRSLAPKY | |
| tr\|E7G3J2\|E7G3J2_9HELI | E . QSY | CSFCSRMRRG | LY | . NY | ALEH | GYNKIALAHHL | DDAVES | FF | MNFI | YNGS | LRSMPPY | |
| tr\|H5VC43\|H5VC43_HELBI | E . KSY | CSFCSRMRRG | LY | . NY | ALEH | GYNKIAIAHHL | DDAVES | FF | MNFI | YNGS | LRSMPPY | |
| tr\|A0A268U060\|A0A268U060_9HELI | E . NSIY | CSFCSRMRRG | LY | . SY | ALKN | GYNKIALGHHL | DDACES | FF | MNLT | YNGAL | LRSMPPY | |
| tr\|A0A087M8T0\|A0A087M8T0_9PROT | E . NSF | CSFFSRMRRG | LY | . TY | ALEH | GYNKIALAHHL | DDAVES | FF | MNFI | YNGAL | LRSMPPY | |
| tr\|A0A2A2GQP1\|A0A2A2GQP1_9HELI | E . GSVY | CSFCSRMRRG | LY | . TK | ALEG | GYNKIALAHHL | DDAAES | FF | MNLT | YNGAL | LRSMPPKY | |
| tr\|A0A2A6W9V1\|A0A2A6W9V1_HELPX | E . KSF | CSFCSRLRGT | LY | . SK | ALEE | GYNKVAIAHHL | DDAVES | FF | MNFI | YNGS | LRSMPPY | |
| tr\|A0A0C2Z9Q1\|A0A0C2Z9Q1_9PROT | E . NSF | CSYFSRMRRG | LY | . NF | ASEN | GYNKVALGHHH | DDAIES | FF | MNMFY | NGAM | RSMPPIY | |
| tr\|B9CYD9\|B9CYD9_CAMRE | K . NSF | CSFFSRMRRG | LY | . TY | ALEH | GYNKIAIAHHL | DDAVES | FF | MNFI | YNGAL | LRSLAPKY | |
| tr\|A0A2N1J2R6\|A0A2N1J2R6_9PROT | K . NSF | CSFFSRMRRG | LY | . TT | AQEQ | GYNKIALGHHL | DDAMES | FF | MNFI | YNGAL | LRSMPPY | |
| tr\|A0A0K2XDX1\|A0A0K2XDX1_9HELI | E . QSY | CSFCSRMRRG | LY | . NH | ALEN | GYNKIAIAHHL | DDAVES | FF | MNFI | YNGS | LRSMPPY | |
| tr\|A0A1I5SJS5\|A0A1I5SJS5_9PROT | E . NSF | CSYFSRMRRG | LY | . TK | AQEG | GYNKVALGHHL | DDAAES | FF | MNMLY | NGT | LRSMAPIY | |
| tr\|A0A1B3XCA3\|A0A1B3XCA3_CAMCO | E . NSF | CSYFSRMRRG | LY | . TY | ALEK | GYNKIAIAHHL | DDAAES | FF | MNFI | YNGAL | LRSLAPIY | |
| tr\|A0A1B9FAV1\|A0A1B9FAV1_9PROT | K . NSF | CSYFSRMRRG | LY | . TY | ALEK | GYNKIAIAHHL | DDAAES | FF | MNFI | YNGS | LRSMPPY | |
| tr\|A0A2X4PH55\|A0A2X4PH55_HELMT | E . GSY | CSFCSRMRRG | LY | . NK | AKEL | GYNKVAIAHHL | DDAAES | FF | MNLT | YNGS | LRSMPPY | |
| tr\|T1D2B1\|T1D2B1_9HELI | D . GTIY | CSFCSRMRRG | LY | . SQ | ALEG | GYNKIALAHHL | DDATES | FF | MNLT | YNGS | LRSMPPY | |
| tr\|A0A1Y5DTG6\|A0A1Y5DTG6_9PROT | K . NSF | CSFFSRMRRG | LY | . ST | AQEQ | GYNKIALGHHL | DDAIES | FF | MNFI | YNGAL | LRSMPPKY | |
| tr\|A0A1W1CJN1\|A0A1W1CJN1_9ZZZZ | K . NSY | CSFFSRMRRG | LY | . SV | AKEH | CYNKVALGHHM | DDAAES | FF | MNFI | YNGQ | MRSLAPKY | |
| tr\|A0A1W1CXB3\|A0A1W1CXB3_9ZZZZ | K . NSF | CSFFSRMRRG | LY | . SV | AKEH | CYNKVALGHHM | DDAAES | FF | MNFI | YNGQ | MRSLAPKY | |
| tr\|A0A0A8GW05\|A0A0A8GW05_9PROT | R . NSF | CSFFSRMRRG | LY | . TY | ALEN | GYNKIAIAHHL | DDAAES | FF | MNFI | YNGAL | LRSLAPKY | |
| tr\|A0A0A8H088\|A0A0A8H088_9PROT | K . NSF | CSYFSRMRRG | LY | . TY | ALDQ | GYNKIAIAHHL | DDAVES | FF | MNFI | YNGS | LRSLAPKY | |
| tr\|A0A1W1WUK6\|A0A1W1WUK6_9PROT | Q . NSY | CSFFSRMRRG | LY | . TY | ALQN | GYNKVALGHHL | DDAIES | FF | MNMFY | NGT | MRSMPPY | |
| tr\|A0A076FD18\|A0A076FD18_9PROT | K . NSF | CSFFSRMRRG | LY | . TY | ALEH | GYNKIAIAHHL | DDAAES | FF | MNFI | YNGAL | LRSLAPKY | |
| tr\|A0A2G1YNP8\|A0A2G1YNP8_9HELI | K . NSF | CSFFSRMRRG | LY | . GI | AEKH | CNKLSLGHM | DDAAES | FF | MNFI | YNGQ | MRSLAPKY | |
| tr\|A0A071LP71\|A0A071LP71_9PROT | K . NSF | CSFFSRMRRG | LY | . TY | AQKH | GYNKIAIAHHL | DDAAES | FF | MNFI | YNGAL | LRSLAPKY | |
| tr\|A0A1W1BTA3\|A0A1W1BTA3_9ZZZZ | K . NSY | CSFFSRMRRG | LY | . SA | AKFE | CYNKVALGHHL | DDAAES | FF | MNFI | YNGQ | LRSLAPIY | |
| tr\|A6Q4A8\|A6Q4A8_NITSB | T . NSY | CSFFSRMRRG | LY | . TY | ALQN | GYNKIALGHHL | DDAIES | FF | MNMFY | NGAM | RSMPPIY | |
| tr\|A0A0C2ZLF5\|A0A0C2ZLF5_9PROT | E . NSF | CSYFSRMRRG | LY | . SY | AQEH | GYNKIALGHHF | DDAVES | FF | | | | |

tr|E4U1K2|E4U1K2_SULKY Q. NS SF. CSFFSRMRRCALY. SAAKEY G CNKVALGHHLLDDAAESFFMNLIIYNGHMRALAPKPY

tr|A0A2N6GCJ3|A0A2N6GCJ3_9HELI K. NS SF. CSFFSRMRRCGLY. SAAQAH G CNKVALGHHMDDAAESFFMNFIIYNGQLRSLAPKY

tr|A0A2D3W7B7|A0A2D3W7B7_9PROT K. NS SF. CSFFSRMRRCALY. TYALENGYKKNLALAHHLDDAAESFFMNFMYNGAIRSMPPIY

tr|A0A1W1D2X7|A0A1W1D2X7_9ZZZZ K. NS SS. CSFFSRMRRCGLY. SVAKEHNCNKVALGHHMDDAVESFFMNFYNGQLRSLAPKY

tr|A0A2G2ANT9|A0A2G2ANT9_9HELI K. NS SF. CSFFSRMRRCGLY. SAALDNG CNKVALGHHLLDDACESFFMNFIIYNGQMRSLAPY

tr|A0A091AJ11|A0A091AJ11_9HELI Q. NS SF. CSFFSRMRRCGLY. TAAQQFG CNKVALGHHLLDDAAESFFMNLIIYNGHLSRLAPKY

tr|A0A1B8J7N9|A0A1B8J7N9_9HELI E. GTIY. CSFCSRMRRCGLY. SEALKG G CNKVALGHHMDDITESFFMNLIIYNGSLRSMPIY

tr|A0A0B0Q4K1|A0A0B0Q4K1_9PROT S. NS SF. CSFFSRMRRCGLY. TYALNHGYAKLALAHHLDDAAESFFMNFSYNGALRSMPPIY

tr|T0JF06|T0JF06_9HELI K. NS SF. CSFFSRMRRCGLY. GVAEKY G CNKVALGHHMDDAAESFFMNFIIYNGQMRSLAPKY

tr|A0A1J5FJW1|A0A1J5FJW1_9HELI K. NS SF. CSFFSRMRRCGLY. TAAFDHG CNKVALGHHMDDAAESFFMNFIIYNGQMRSLAPKY

tr|A0A2N6G706|A0A2N6G706_9PROT K. NS SF. CSFFSRMRRCGLY. STAEQGYCNKVALGHHLLDDAMESFFMNFYNGALRSMPPIY

tr|A0A2G2HJK9|A0A2G2HJK9_9PROT K. NS SF. CSFFSRMRRCGLY. SAALDQGYCNKVALGHHLLDDAMESFFMNFYSGALRSMPPIY

tr|A0A1W9PM77|A0A1W9PM77_9HELI K. NS SY. CSFFSRMRRCGLY. SAAKKYECNKVALGHHLLDDAAESFFMNLIIYNGQMRSLAPKY

tr|A0A2G6DDV7|A0A2G6DDV7_9PROT K. NS SF. CSFFSRMRRCGLY. TYALENDYKNVAIAHHLDDAAESFFMNFIIYNGALRSAPKY

tr|A0A1J4TTL2|A0A1J4TTL2_9HELI K. NS SF. CSFFSRMRRCGLY. GLAEKLG CNKVALGHHLLDDAVESFFMNFIIYNGQMRSLAPKY

tr|A0A2P8QZA9|A0A2P8QZA9_9PROT K. NT SI. CSFCSRMRRCGLY. TYALENG CNKVALGHHLLDDAAESFFMNFTHNGSLRSLAPKY

tr|E0UQV7|E0UQV7_SULAO K. NS SF. CSFFSRMRRCGLY. SVAKELG CNKVALGHHMDDAAESFFMNFIIYNGQMRSLAPKY

tr|C8FEU9|C8FEU9_9PROT A. NTTF. CSFCSRMRRCGLY. SYALEHGFNKIAIAHHLDDAAESFFMNFTHNGALRTAPKY

tr|Q7MR20|Q7MR20_WOLSU E. NS SY. CSFCSRMRRCGLY. SKALEG G CNKVALGHHLLDDAAESFFMNFSYNGAIRSMPPIY

tr|A0A1X9STM1|A0A1X9STM1_9PROT K. NS SF. CSFFSRMRRCGLY. TYALANG CNKVALGHHLLDDAVESFFMNFIIYNGAIRSLAPKY

tr|A0A128E9T0|A0A128E9T0_9PROT E. NTTF. CSFCSRMRRCGLY. SYALENGFNKIAIAHHLDDAAESFFMNFTHNGALRTAPKY

tr|J0LAR5|J0LAR5_9HELI E. NS SY. CSFFSRMRRCGLY. SATEKLG CNKVALGHHLLDDAVESFFMNFYNGSLRSLAPKY

tr|A0A1T2XPE8|A0A1T2XPE8_9PROT Q. NS SF. CSFFSRMRRCGLY. TYALNNF NKLAIAHHLDDAAESFFMNFYNGALRTAPKY

tr|A0A1V4R692|A0A1V4R692_9PROT K. NS SF. CSFFSRMRRCGLY. SYALKHNFNKIALGHHLLDDAVESFFMNFYNGALRTAPKY

tr|A0A0E9F2V9|A0A0E9F2V9_CHLTH Q. NATI. CSFCARLRRCGLY. TYALKNG CNKVALGHHLLDDAVESFFMNFYNGALRTAPKY

tr|A0A258ZKP3|A0A258ZKP3_9HELI K. NS SF. CSFFSRMRRCGLY. SAALEHG CNKVALGHHLLDDAAESFFMNFIIYNGHMRALAPKY

tr|A0A2G2G5A2|A0A2G2G5A2_9PROT K. NS SF. CSFFSRMRRCGLY. SVAEELG CNKVALGHHLLDDAAESFFMNFIIYNGQMRSLAPY

tr|A0A1G3UGJ6|A0A1G3UGJ6_9HELI K. NS SF. CSFFSRMRRCGLY. SAAEKY G CNKVALGHHMDDACESFFMNFIIYNGQMRSLAPKY

tr|A0A1G3TFQ9|A0A1G3TFQ9_9HELI K. NS SF. CSFFSRMRRCGLY. SVAEKYG CNKVALGHHMDDAAESFFMNFIIYNGQMRSLAPKY

tr|A71189|A71189_CAMHC P. NTTF. CSFCSRMRRCGLY. SYALKNGFNKLAIAHHLDDAAESFFMNLIIYNGALRTAPKY

tr|A0A0C2V6R9|A0A0C2V6R9_9HELI Q. NS SY. CSFFSRMRRCGLY. SAAOHFG CNKVALGHHMDDAVESFFMNFIIYNGALRTAPY

tr|A0A2G2PC84|A0A2G2PC84_9HELI K. NS SF. CSFFSRMRRCGLY. SVAEELG CNKVALGHHLLDDAVESFFMNFIIYNGQMRSLAPY

tr|G4E699|G4E699_9GAMM D. ND SF. CAFCSRMRRCGLY. RTAREHG YQVLAHQHLLDDLAESFFMSAFHGRQLTMKAY

tr|A0A067A0H6|A0A067A0H6_HYDMR K. GN SF. CSFCARQKRCGLY. TVCRREGYNVLAHQHLLDDLAESFFMSAFHGRQLTMKAY

tr|Q31J95|Q31J95_HYDCU K. GD SF. CSFCARHRCRCGLY. TVCRREGYNVLAHQHLLDDLAESFFMSAFHGRQLTMKAY

tr|A0A1A6C120|A0A1A6C120_9GAMM D. ND SF. CAFCARMKRCGLY. SAARREGYNVLAHQHLLDDLAESFFMSAFHGRQLTMKAY

tr|A0A257NW40|A0A257NW40_9GAMM R. GD SY. CAFCARMKRCGLY. KAARREGYTVLALGQHLLDDLAESFFMSAFHGRQLTMKAY

tr|A0A2H6G4E2|A0A2H6G4E2_9BACT R. RD SF. CAYCSRMRRCGLY. STARKN CNKVLVAHQHLLDDLAESFFMSAFHGRQLTMKAY

tr|A0A0X3T6D5|A0A0X3T6D5_9GAMM K. GN SF. CSFCARQKRCGLY. TVCRREGYNVLAHQHLLDDLAESFFMSAFHGRQLTMKAY

tr|A0A1T4X6M8|A0A1T4X6M8_9GAMM D. NN SY. CAFCSRMRRCGLY. KTAREQGYNVLAHQHLLDDLAESFFMSAFHGRQLTMKAY

tr|A0A2I1DYG6|A0A2I1DYG6_9PROT L. RP SY. CSFCARMKRCGLY. RCARREGYNVLAHQHLLDDLAESFFMSAFHGRQLTMKAY

tr|F9ZRE2|F9ZRE2_ACICS G. RP SY. CSFCARMKRCGLY. ACARREGYNVLAHQHLLDDLAESFFMSAFHGRQLTMKAY

| tr|A0A1F6G6B2|A0A1F6G6B2_9PROT | R. GD SF. | CAYCSRMRRCGLY. | ATAREQGYNVLAHQHLLDDLAESFFMSAFHGRQLTMKAY |
| tr|A0A1Z5HNK0|A0A1Z5HNK0_9THEO | N. N. | CSICAHLRRCGLY. | DYAVKDYCNKVALAHYDDAVETFLMSQLYGSLRTPSKT |
| tr|R5AS17|R5AS17_9FIRM | I. EQ SP. | CYLCAARMRCGLY. | SKARELG CNKIALGHHFDDVETVGMGFYGSQLOQAMPKKL |
| tr|A0A2G3E2W8|A0A2G3E2W8_9FIRM | I. KD NP. | CYLCAARMRCGLY. | AKARELG CNKIALGHHFDDVETIVMGMLYGAQIQTMPPKL |
| tr|A0A1I2CQA3|A0A1I2CQA3_9FIRM | E. QN PP. | CYLCAARMRCGLY. | RYAQEAG CNKIALGHHFDDVETIVMSMFGYGEIRTMPPKV |
| tr|R9KLC2|R9KLC2_9FIRM | I. EK SP. | CYLCAARMRCGLY. | HQAGKLG CNKIALGHHFDDVETIVMGMLYGGQIQTMPPKL |
| tr|A0A174X0A0|A0A174X0A0_9CLOT | V. DE SP. | CYLCAARMRCGLY. | AHAKELG CNKIALGHHFDDVETIVLMSMLYGSQVQTMPPKL |
| tr|A0A0D0QQ0Q|A0A0D0QQ0Q_9FIRM | I. EK SP. | CYVCAARMRCGLY. | SEAKRLG CNKIALGHHYDDVETIVLMSMLYGAQIQTMPPKL |
| tr|A0A174KCC2|A0A174KCC2_CLOSY | V. DQ SP. | CYLCAARMRCGLY. | ANAKKLG CNKIALGHHFDDVETIVLMSMLYGAQVNTMPPKL |
| tr|R9L8Q4|R9L8Q4_9FIRM | I. EN SP. | CYLCAARMRCGLY. | SKAHALG CNKIALGHHFDDVETIVLMSMLYGGVQTMPPKL |
| tr|A0A1H5TPC7|A0A1H5TPC7_9FIRM | I. TG SP. | CYLCAARMRCGLY. | SKAKELG CNKIALGHHYDDVETIVLMSMLYGGQIQTMPPKL |
| tr|A0A1G6DDH6|A0A1G6DDH6_9FIRM | I. EQ NP. | CYLCAARMRCGLY. | KTAKDMG CNKIALGHHFDDVETIVLMSMLYGSQVQTMPPKL |
| tr|A0A1G9SUV6|A0A1G9SUV6_9FIRM | I. VE SP. | CYLCAARMRCGLY. | SKAKELG CNKIALGHHFDDVETIVLMSMLYGSQVQTMPPKL |
| tr|R6C5Q7|R6C5Q7_9FIRM | L. DK NP. | CYMCARMRCGLY. | SYAQSLG CNKIALGHHFDDVETIVLMSMLYGGQIQTMPPKL |
| tr|R5WT82|R5WT82_9FIRM | E. ES SP. | CYLCAARMRCGLY. | SKARELG CNKIALGHHYDDVETIVLMSMLYGAQIQTMPPKL |
| tr|A0A1Q6RFH7|A0A1Q6RFH7_9FIRM | V. EK NP. | CYLCAARMRCGLY. | AKAQDLG CNKIALGHHFDDVETIVMGFLFYGSQLOQAMPKKL |
| tr|W0U949|W0U949_9FIRM | T. KR NP. | CYLCAARMRCGLY. | KFAQDLG CNKIALGHHFDDVETIVMSMFGYGSQIQTMPPKL |
| tr|A0A143Y538|A0A143Y538_9LACT | E. EV SP. | CYKCAARMRCGLY. | KNAQDLG CNKIALGHHFDDVETIVLNMNMYGSQIETMPPKL |
| tr|A0A1I5VEX7|A0A1I5VEX7_9FIRM | V. EK NP. | CYLCAARMRCGLY. | SKAQALG CNKIALGHHFDDVETIVLGLFYGAQLOQAMPKKL |
| tr|A0A1K1PC37|A0A1K1PC37_9FIRM | I. EM NP. | CYLCAARMRCGLY. | KTAKDMG CNKIALGHHFDDVETIVLMSMLYGSQVQTMPPKL |
| tr|A0A1G5I8B0|A0A1G5I8B0_9FIRM | L. DK NP. | CYICARMRCGLY. | SNAKALG CNKIALGHHYDDVETIVLMSMLYGAQIQTMPPKL |
| tr|A0A2W7JTA9|A0A2W7JTA9_9BACT | V. VK SP. | CYVCAARMRCGLY. | HMAKDMG CNKIALGHHMDDVETIVMAMFYGAQLOQAMPKKL |
| tr|A0A1G9E946|A0A1G9E946_9CLOT | I. EK SP. | CYLCAARMRCGLY. | RFAREHG CNKIALGHHFDDVETIVLMSMLYGSQYQAMLPKL |
| tr|A0A2M9A852|A0A2M9A852_9BACT | V. EH SP. | CYVCAARMRCGLY. | SOAKRLG CNKIALGHHFDDVETIVMSMFGYASQLOQAMPKL |
| tr|E6UAU2|E6UAU2_RUMA7 | V. DE HP. | CYLCAARMRCGLY. | KTAKELG CNKIALGHHFDDVETIVLMSMLYGSQVQTMPPKL |
| tr|G5HHM3|G5HHM3_9FIRM | V. DQ SP. | CYLCAARMRCGLY. | SHARELG CNKIALGHHFDDVETIVLMSMLYGGQIQTMPPKL |
| tr|A0A1D3TNX5|A0A1D3TNX5_9FIRM | I. DK SP. | CYLCAARMRCGLY. | KHAQDLG CNKIALGHHFDDVETIVLNMNLYSGRIETMPPKL |
| tr|A0A2P6URX3|A0A2P6URX3_9BACT | M. EH SP. | CYICARMRCGLY. | NKAKELG CNKIALGHHFDDVETIVMSMFGYASQLOQAMPKL |
| tr|A0A1M6RMG6|A0A1M6RMG6_9BACT | T. EH SP. | CYLCAARMRCGLY. | AKARELG CNKIALGHHFDDVETIVMSMFGYASQLOQAMPKL |
| tr|A0A1C6I2U3|A0A1C6I2U3_9FIRM | V. EK NP. | CYLCAARMRCGLY. | SKAQELG CNKIALGHHLLDVLETLGLFYGAQLOQAMPKL |
| tr|R9LUH7|R9LUH7_9FIRM | V. EK NP. | CYLCAARMRCGLY. | AQAKLG CNKIALGHHFDDVETIVLGLFYGAQLOQAMPKL |
| tr|J1H3X4|J1H3X4_9CLOT | S. GG NP. | CYLCAARMRCGLY. | AKARELG CNKIALAHHFDDVETIVMSMLYGAQIETMPPKL |
| tr|A0A176U8C8|A0A176U8C8_9FIRM | T. DK SP. | CYLCAARMRCGLY. | NKAKELG CNKIALGHHFDDVETIVLIGMFYASQLOQAMPKL |
| tr|A0A1Q6KUQ8|A0A1Q6KUQ8_9FIRM | V. DK SP. | CYLCAARMRCGLY. | SKARELG CNKIALGHHFDDVETIVLIGMFYASQLOQAMPKL |
| tr|R5ALL4|R5ALL4_9CLOT | R. GQ SP. | CYLCAARMRCGLY. | HAAQERG CNKIALGHHFDDVETIVMGMLYGSQLOQAMPKL |
| tr|A0A1Y4RIL6|A0A1Y4RIL6_9FIRM | V. ED NP. | CYLCAARMRCGLY. | ANAKRLG CNKIALGHHFDDVETIVMGMLYGSQLOQAMPKL |
| tr|E9SA84|E9SA84_RUMAL | V. RN NP. | CYLCAARMRCGLY. | KNAQELG CNKIALGHHFDDVETIVLMSMLYGSQVQTMPPKL |
| tr|R7IB10|R7IB10_9FIRM | A. ER NP. | CYLCAARMRCGLY. | DRAQEMG CNKIALGHHFDDVETIVMSMFGYGAQLOQAMPKL |
| tr|A0A2A7B516|A0A2A7B516_9FIRM | T. DK NP. | CYLCAARMRCGLY. | SKARELG CNKIALGHHFDDVETIVMSMFGYGSQLOQAMPKL |
| tr|A0A1Q6SWI6|A0A1Q6SWI6_9FIRM | S. DK SP. | CYLCAARMRCGLY. | KKAQELG CNKIALGHHFDDVETIVMSMFGYGSQLOQAMPKL |
| tr|R6ZNC4|R6ZNC4_9CLOT | V. DQ SP. | CYLCAARMRCGLY. | ANAKRLG CNKIALGHHFDDVETIVMSMFGYGAQVNTMPPKL |
| tr|COCTY6|COCTY6_9FIRM | V. DQ SP. | CYLCAARMRCGLY. | DRARSLG CNKIALGHHYDDVETIVLMSMLYGSQVNTMPPKL |
| tr|E2NTX2|E2NTX2_CATMR | I. EK NP. | CYLCAARMRCGLY. | NRAQELG CNKIALGHHYDDVETIVLMSMLYGAQIQTMPPKL |
| tr|A0A212JBS4|A0A212JBS4_9FIRM | T. DQ SP. | CYLCAARMRCGLY. | SKARELG CNKIALGHHFDDVETIVLMSMLYGSQLOQAMPKL |
| tr|A0A1C5XK44|A0A1C5XK44_9CLOT | S. EK NP. | CYLCAARMRCGLY. | SKAQELG CNKIALGHHFDDVETIVMSMFGYGAQLOQAMPKL |
| tr|A0A1M2Z8D3|A0A1M2Z8D3_9FIRM | T. DK SP. | CYLCAARMRCGLY. | HQAQKRG CNKIALGHHFDDVETIVLMSMLYGAQIQAMPKL |
| tr|A0A1H2SZG7|A0A1H2SZG7_9FIRM | A. FK QP. | CYFCARMRCGLY. | KHAQSI G CNKIALGHHFDDVETIVLMSMFGYSEIRTMPPKL |
| tr|A9KRA1|A9KRA1_LACP7 | V. DE SP. | CYLCAARMRCGLY. | KNAKAHG CNKIALGHHFDDVETIVLMSMLYGSQIQTMPPKL |
| tr|A0A2J8B726|A0A2J8B726_9FIRM | L. SS NP. | CYLCAARMRCGLY. | RMARELG CNKIALGHHMDDVETIVMAMFYGAQLOQAMPKL |
| tr|A0A252CN16|A0A252CN16_9FIRM | V. DS SP. | CYHCAARMRCGLY. | QKAQELG CNKIALGHHFDDVETIVLNMNMYSGTETMPPKL |
| tr|A0A1I5J0S5|A0A1I5J0S5_9FIRM | V. DD SP. | CYLCAARMRCGLY. | KNAQALG CNKIALGHHFDDVETIVLMSMLYGSQVKGMMPPKL |
| tr|A0A2N3RZR2|A0A2N3RZR2_9BACT | T. EK SP. | CYLCAARMRCGLY. | RMAMDA G CNKIALGHHFDDVETIVLMSMLYGSQLOQAMPKL |
| tr|R9IVG3|R9IVG3_9FIRM | I. EK SP. | CYLCAARMRCGLY. | HQARELG CNKIALGHHYDDVETIVLMSMLYGGQIQTMPPKL |
| tr|EORWJ2|EORWJ2_BUTPB | V. GG SP. | CYLCAARMRCGLY. | SKAQELG CNKIALGHHFDDVETIVMAMFYGGQIQTMPPKL |
| tr|A0A1M6RWL0|A0A1M6RWL0_9BACT | T. ER SP. | CYVCAARMRCGLY. | HKAQDLG CNKIALGHHLLDVLETVMAMFYGSQLOQAMPKL |
| tr|A0A2U1BER2|A0A2U1BER2_9FIRM | S. EK NP. | CYLCAARMRCGLY. | SKAQELG CNKIALGHHFDDVETIVMSMFGYGSQLOQAMPKL |
| tr|A0A1Y4IPQ2|A0A1Y4IPQ2_9FIRM | I. KE NP. | CYLCAARMRCGLY. | AHARELG CNKIALGHHFDDVETIVLMSMLYGGQIQTMPPKL |
| tr|A0A2P8EHL9|A0A2P8EHL9_9FUSO | A. TE HP. | CYLCAARMRCGLY. | KKARELG CNKIALGHHLLDVLETVMAMFYGSQLOQAMPKL |
| tr|A0A2V2F820|A0A2V2F820_9FIRM | T. DK SP. | CYLCAARMRCGLY. | AKARELG CNKIALGHHFDDVETIVMGFLFYGSQLOQAMPKL |
| tr|R7FQ76|R7FQ76_9CLOT | D. KS SP. | CYLCAARMRCGLY. | AFAREMG CNKIALGHHYDDVETIVLNMNLYGSQLOQAMPKL |
| tr|A0A1F2PGJ4|A0A1F2PGJ4_9FIRM | I. DR SP. | CYLCAARMRCGLY. | HHAKELG CNKIALGHHYDDVETIVLMSMLYGGQIQTMPPKL |

| | | | | | | | | | | |
|--------------------------------|-----------------------------------|-------------|-----------------|------------|--------|---------|--------|--------|--------|------------|
| tr\|R5SYF5\|R5SYF5_9CLOT | E . KGSP | CYLCARMRRG | GLY . NKAREL | CNKIALGHHF | DDVIET | TL | LSMIY | GAET | IKTMM | PKL |
| tr\|H1HWV0\|H1HWV0_9FIRM | A . DEHP | CYLCARMRRG | GLY . RKAKDL | CNKIALGHHF | NDVIET | TV | MAMFY | SSQ | LQGM | PKL |
| tr\|A0A1M6GGJ6\|A0A1M6GGJ6_9FIRM | I . EKSP | CYLCARMRRG | GLY . KNAQDL | CNKIALGHHY | DDVIET | IL | MGMMY | GAQ | IQTM | PKL |
| tr\|R5LED2\|R5LED2_9CLOT | I . DDHP | CYLCARMRRG | GLY . RKAKEL | CNKIALGHHF | DDVDET | IL | MGMLY | GAQ | QTM | PKL |
| tr\|R6UGA7\|R6UGA7_9CLOT | I . DDHP | CYLCARMRRG | GLY . QKAKEL | CNKIALGHHF | DDVDET | IL | MGMLY | GAQ | QTM | PKL |
| tr\|G51LG4\|G51LG4_9CLOT | V . DESP | CYLCARMRRG | GLY . AKAKEL | CNKIALGHHF | DDVIET | IL | MSMLY | GAQ | VNTMM | PKL |
| tr\|A0A0X1U6S1\|A0A0X1U6S1_CLOPR | S . BEEP | CYLCARMRRG | GLY . NKAKLL | CNKIALGHHF | NDVIET | TV | MGMFY | GSQ | LQAM | PKL |
| tr\|R6S5S7\|R6S5S7_9CLOT | V . EDSP | CYLCARMRRG | GLY . ANAREL | CNKIALGHHF | DDVIET | IL | MSMLY | GAQ | INTMM | PKL |
| tr\|A0A1H0AG65\|A0A1H0AG65_9FIRM | T . DRSP | CYLCARMRRG | GLY . SKAQEL | CNKIALGHHF | DDVDET | IL | MSMLY | GSE | MRTMM | PKL |
| tr\|A0A1Q6M5X6\|A0A1Q6M5X6_9CLOT | Q . EKNP | CYLCARMRRG | GLY . RIAKEL | CNKIALGHHY | DDVIET | IL | MNMLN | AGS | FQTM | PKL |
| tr\|R7H4I7\|R7H4I7_9FIRM | I . DDSP | CYLCARMRRG | GLY . NHAQSL | CNKIALGHHF | DDVIET | IL | MGMLY | GAQ | VQTM | PKL |
| tr\|A0A0V8QHD3\|A0A0V8QHD3_9FIRM | I . EDNP | CYLCARMRRG | GLY . KEAQSL | CNKIALGHHF | DDVIET | IL | MGMLY | GQF | QTM | PKL |
| tr\|A0A1H8ZVY3\|A0A1H8ZVY3_9FIRM | I . TKSP | CYLCARMRRG | GLY . SKAKEL | CNKIALGHHY | DDVIET | IL | MGLMHA | QAQ | IQTM | PKL |
| tr\|A0A1M4WL46\|A0A1M4WL46_9FIRM | T . EQSP | CYLCARMRRG | GLY . SKAKEL | CNKIALGHHF | DDVIET | TL | MSMLY | SAE | IKTMM | PKL |
| tr\|F2JRP1\|F2JRP1_CELLD | V . EDTP | CYLCARMRRG | GLY . KEAKDL | CNKIALGHHF | DDVIET | IL | MSMLY | GSQ | IKTMM | PKL |
| tr\|R5MTR7\|R5MTR7_9MOLU | D . SKSP | CYLCARMRRG | GLY . NKAKEL | CNKIALGHHF | DDVIET | TL | LSMFY | GSE | VKTMM | PKL |
| tr\|A0A1M7F7H6\|A0A1M7F7H6_9FIRM | I . DKSP | CYLCARMRRG | GLY . AKAKEL | CNKIALGHHM | SDVIET | TL | MGMLY | GSQ | IQGM | PKL |
| tr\|S0JHW1\|S0JHW1_9FIRM | I . EKSP | CYLCARMRRG | GLY . HQAREL | CNKIALGHHY | DDVIET | IL | MGMLY | GQI | IQTM | PKL |
| tr\|A0A1M5TU90\|A0A1M5TU90_9FIRM | T . DRSP | CYLCARMRRG | GLY . SKAREL | CNKIALGHHF | DDVIET | IL | MSMLY | GAE | VKTMM | PKL |
| tr\|M2Q1G3\|M2Q1G3_9FIRM | D . FKNP | CYFCARMRRG | GLY . KQAQSL | CNKIALGHHF | DDVIET | TL | LSMFY | GSE | IKTMM | PKL |
| tr\|R6Y2Q3\|R6Y2Q3_9FIRM | D . DKSP | CYFCARMRRG | GLY . NFAKKM | CNKIALGHHY | DDVIET | TL | MNMLN | AGS | FQTM | PKL |
| tr\|A0A2T3FK21\|A0A2T3FK21_9FIRM | I . EKSP | CYLCARMRRG | GLY . AKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQ | IQTM | PKL |
| tr\|V2Y991\|V2Y991_9FIRM | I . EKSP | CYLCARMRRG | GLY . SKAKEL | CNKIALGHHF | DDAIET | VL | MGMFY | AGK | YETMM | PKL |
| tr\|G4KRV5\|G4KRV5_OSCVS | A . DKNP | CYLCARMRRG | GLY . AKAQEL | CNKIALGHHF | SDVIET | TL | MALLY | GAQ | LQAM | PKL |
| tr\|R5XBM2\|R5XBM2_9FIRM | A . GDSF | CYLCARMRRG | GLY . SKAKEL | CNKIALGHHF | DDVDET | TL | MGMY | GAQ | IQAM | PKL |
| tr\|R7I6Y9\|R7I6Y9_9CLOT | V . EGNP | CYLCARMRRG | GLY . KNAQKL | CNKIALGHHF | DDVIET | IL | MGMMY | GQI | IQTM | PKL |
| tr\|E7GBG2\|E7GBG2_9FIRM | I . EKSP | CYLCARMRRG | GLY . AKAKEL | CNKIALGHHY | DDVDET | IL | MGMFY | GSQ | IQTM | PKL |
| tr\|A0A1Y4SGW6\|A0A1Y4SGW6_9FIRM | I . EKSP | CYLCARMRRG | GLY . AKAKEL | CNKIALGHHF | DDVIET | IL | MGMFY | GSQ | IQTM | PKL |
| tr\|R6MCT4\|R6MCT4_9CLOT | S . FDSF | CYMCARMRRG | GLY . NKAKEL | CNKIALGHHF | NDVIET | TL | LSMFY | GSE | VKTMM | PKL |
| tr\|A0A2K2TPX0\|A0A2K2TPX0_9CLOT | V . DESP | CYLCARMRRG | GLY . ANAKEL | CNKIALGHHF | DDVIET | IL | MSMLY | GAQ | VNTMM | PKL |
| tr\|A0A2G3Q0C6\|A0A2G3Q0C6_9FIRM | V . EETP | CYLCARMRRG | GLY . KEAQAL | CNKIALGHHF | DDVIET | IL | MGMLY | GAQ | IQTM | PKL |
| tr\|A0A1V5S3T7\|A0A1V5S3T7_9FIRM | T . ENNP | CYLCARMRRG | GLY . AKAKEL | CNKIALGHHM | SDVIET | TL | MGMMY | GSQ | LQGM | PKL |
| tr\|R6RUM4\|R6RUM4_9CLOT | T . EKNP | CYLCARMRRG | GLY . SQAKKL | CNKIALGHHF | NDVIET | TL | LMGFY | GSQ | LQAM | PKL |
| tr\|R5W094\|R5W094_9FIRM | D . SKSP | CYLCARMRRG | GLY . NKAKEL | CNKIALGHHF | DDVIET | TL | LSMFY | GAET | IKTMM | PKL |
| tr\|R5L3B5\|R5L3B5_9CLOT | A . GGNP | CYLCARMRRG | GLY . AKAQEL | CNKIALGHHF | SDVIET | TL | LMGFY | GSQ | LQAM | PKL |
| tr\|R7FE98\|R7FE98_9FIRM | I . DDSP | CYLCARMRRG | GLY . QNAKAL | CNKIALGHHF | DDVIET | IL | MGMLY | GAQ | VQTM | PKL |
| tr\|R6YEJ3\|R6YEJ3_9CLOT | I . GQGP | CYLCARMRRG | GLY . TKAKEL | CNKIALGHHF | DDVIET | IL | NLMFY | GST | VKSMM | PKL |
| tr\|A0A1I6KMM6\|A0A1I6KMM6_9FIRM | I . EDSP | CYLCARMRRG | GLY . KNAQAL | CNKIALGHHF | DDVIET | TL | MSMLY | SGQ | FKTMM | PKL |
| tr\|R6H344\|R6H344_9FIRM | D . SKSP | CYLCARMRRG | GLY . NKAKEI | CNKIALGHHF | DDVIET | TL | LSMFY | GAET | IKTMM | PKL |
| tr\|A0A1I0PPQ4\|A0A1I0PPQ4_9FIRM | V . ENT | CYLCARMRRG | GLY . SNAQRL | CNKIALGHHF | DDVIET | IL | MGMFY | GK | YETMM | PKL |
| tr\|W6RY21\|W6RY21_9CLOT | I . DESP | CYLCARMRRG | GLY . KHAQRL | CNKIALGHHF | DDVIET | IL | MSMLY | NGQ | LRTMM | PKL |
| tr\|R7IG73\|R7IG73_9FIRM | N . EKSP | CYMCARMRRG | GLY . NKAKEL | CNKIALGHHF | DDVIET | TL | LSMFY | GSE | VKTMM | PKL |
| tr\|A0A2N2CP79\|A0A2N2CP79_9FIRM | T . DRSP | CYLCARMRRG | GLY . SHAKEL | CNKIALGHHF | DDVIET | IL | MSMFY | GAE | YSMM | PKL |
| tr\|A0A143XLN2\|A0A143XLN2_9FIRM | V . HDSP | CYLCARMRRG | GLY . AYAKEL | CNKIALGHHF | DDVIET | TL | MSMLY | SGQ | KMSMM | PKL |
| tr\|A0A1H6QCX8\|A0A1H6QCX8_9LACO | D . FKNP | CYFCARMRRG | GLY . KQAKQL | CNKIALGHHM | DDVIET | TL | LSMFY | GAE | VKTMM | PKL |
| tr\|A0A1C0BW61\|A0A1C0BW61_9FIRM | I . EKNP | CYLCARMRRG | GLY . RYAKDL | CNKIALGHHY | DDVIET | TL | MNLFY | AGE | VKTMM | PKL |
| tr\|A0A2D5QQY5\|A0A2D5QQY5_9DELT | P . GQIP | CAVCGRLRG | GLN . QWCADH | FNKIALGHHL | DDAIET | FM | LNLF | FRRI | DP | LKPLT |
| tr\|A0A2F0AQ31\|A0A2F0AQ31_9DELT | P . GQIP | CSICSRMRG | GLN . HWCABH | FNKIALGHHL | DDAIET | FF | LNLF | FRRI | DP | LKAIT |
| tr\|A0A2E7ZQY1\|A0A2E7ZQY1_9DELT | P . NQTP | CALCSRMRG | GLN . QWCASQ | FNKIALGHHL | DDAVET | FF | LNLF | GRR | LQPM | KATT |
| tr\|A0A2D4BV86\|A0A2D4BV86_PYTIN | G NSL | LAYTSRMRG | GLY . TCCRKN | KNKLVLGHHL | DDVAES | FF | MSAMHN | Q | LRTM | RAKY |
| tr\|X6FPF3\|X6FPF3_RETFI | DEKKS | CSFCSRMRG | GLY . EVORTH | GNVNLAMG | QHL | DDL | ESF | MSAFF | NGQ | VQTM |
| tr\|F0ZRB4\|F0ZRB4_DICPU | E GNKE | CAFCSRMRG | GLY . NTCRKE | GNVNLALG | QHL | DDL | ESF | MSALYN | G | LSTMKVNY |
| tr\|A9V248\|A9V248_MONBE | Q PPSI | CSWCSRMRG | GLY . SCILRR | GNVNLALG | QHL | DDL | ESF | MSFHN | G | LRTMKAHY |
| tr\|D8MAU8\|D8MAU8_BLAHO | N GSI | CSWCSRMRG | GLY . STMRRE | GNVNLVLA | QHL | DDL | ESF | MSVFHN | G | LRTMKACY |
| tr\|A0A2R5G6L3\|A0A2R5G6L3_9STRA | G TSI | CSFCSRMRG | GLY . GCAREH | GNKLVLA | QHL | DDL | SAET | LM | GLFHNG | IARAMANY |
| tr\|A0A196SC40\|A0A196SC40_BLAHN | N GSI | CSWCSRMRG | GLY . STILRR | GNVNLVLA | QHL | DDL | ESF | MSVFHN | G | LRTMKACY |
| tr\|R1G128\|R1G128_EMIHU | GNRV | CSFCSRMRG | GLY . ATARRE | GNVNLAMA | QHL | DDL | ESF | MSALHN | G | LRTSMKTHY |
| tr\|K3WC28\|K3WC28_PYTUL | G DSL | CSFCSRMRG | GLY . TCORTQ | GNKLVLA | QHL | DDL | ESF | MSAMHN | G | LRTMKAKY |
| tr\|A0A225V7N4\|A0A225V7N4_9STRA | G DSL | CSYCSRMRG | GLY . SCCKRY | GNKLVLA | QHL | DDL | ESF | MSAMHN | G | LRTMKAKY |
| tr\|L1IU52\|L1IU52_GUITH | SLQKNS | CSFCSRMRG | GLY . SVCKER | GNVNLALG | QHL | DDL | QAES | FL | MSAFHN | GQ |
| tr\|A0A067BZA0\|A0A067BZA0_SAPPC | G DSL | CAYCSRMRG | GLY . TCCRKN | GNKLVLA | QHL | DDL | ESF | MSAMYN | G | QVRTMKAKY |
| tr\|W4GX72\|W4GX72_9STRA | G DSL | CAYCSRMRG | GLY . SCCRTH | FNKLLLA | QHL | DDL | ESF | MSAMYN | G | QVRTMKAKY |
| tr\|A0A0M0J3A1\|A0A0M0J3A1_9EUKA | GNRV | CSFCSRMRG | GLY . ATARRE | GNVNLAMA | QHL | DDL | ESF | MSAMHN | G | LRTSMKACY |
| tr\|A0A1R2BZ72\|A0A1R2BZ72_9CILI | K KLSL | CAFCSRMRG | GLY . SCARRE | GNVNLALG | QHL | DDL | ESF | MSIFNN | G | LRTMKANY |
| tr\|A0A0G4ITX6\|A0A0G4ITX6_PLABS | RVGSNNRV | CSFCSRMRG | GLY . HTARRE | GNVNLAMG | QHL | DDL | ESF | MSAFHN | G | VCTMKAHY |
| tr\|A2DFU7\|A2DFU7_TRIVA | V YLENDH | CHCSRFRRA | GLM . ELARVF | CSNKLTLG | HHL | DDIVAT | IL | MNNT | THH | GRFSMAVKL |
| tr\|A2FBY7\|A2FBY7_TRIVA | V YLENDH | CHCSRFRRA | GLM . ELARVF | CSNKLTLG | HHL | DDIVAT | IL | MNNT | THH | GRFAGMAVKL |
| tr\|A0A0S8JSR5\|A0A0S8JSR5_9BACE | TVDPKKAP | CFICSWNRKR | GLY . ELISKEL | CNKVALGHH | KDDAI | QTVLNMN | I | FHGS | ISL | LPQKL |
| tr\|R5INZ9\|R5INZ9_9BACT | TDTRKSP | CFILCSWYRKA | GLY . DIAKEYN | CNKIALGHH | QDDIL | QTL | LMNMTH | Q | GAFTG | IMPPFL |
| tr\|A0A2P8XLW5\|A0A2P8XLW5_BLAG | RGCKSV | CSFCSRMRG | GLY . AAARGH | GNVNLALG | QHL | DDL | ESF | MSVFHN | G | LRTMKAHY |
| tr\|A0A1D2NEM1\|A0A1D2NEM1_ORCCI | PENVSI | CSFCSRMRG | GLY . ACARTN | GNVNLALG | QHL | DDL | ESF | MSVFHN | G | LRTMKAAY |
| tr\|A0A0L8G5Z7\|A0A0L8G5Z7_OCTEM | YKCSI | CSFCSRMRG | GLY . MCARRE | GNVNLALG | QHL | DDL | ESF | MSFHN | G | IMRTMKANY |
| tr\|A0A1E7F863\|A0A1E7F863_9STRA | G QOASL | CAFCSRMRG | GLY . ACARKNN | CNKLVLA | QHL | DDL | ESF | MSVMHN | G | LRTMKANY |
| tr\|D7FR81\|D7FR81_ECTSI | QGDSL | CAFCSRMRG | GLY . ACCREQ | GNKLVLA | QHL | DDL | ESF | MSALHN | G | QVRTMKANY |
| tr\|W4YEI7\|W4YEI7_STRPU | DGCA | CSFCSRMRG | GLY . ACARRE | GNVNLAMG | QHL | DDL | ESF | MSVFHN | G | LRTMKANY |
| tr\|A0A1S3HZF4\|A0A1S3HZF4_LINUN | YECASI | CSFCSRMRG | GLY . HCARRE | GNVNLALG | QHL | DDL | ESF | MSIFHN | G | LRTMKANY |
| tr\|Q5AGN1\|Q5AGN1_DICDI | REGIENKA | CAYCSRMRG | GLY . DICRRE | GNVNLALG | QHL | DDL | ESF | MSAFYN | G | MLSTMVNY |
| tr\|A0A068W8K2\|A0A068W8K2_ECHGR | G DSI | CAFCSRMRG | GLY . SCCRKY | GNKLVLA | QHL | DDL | CVES | FL | MSMYNG | V |
| tr\|D3BIK4\|D3BIK4_POLPP | NQCS | CSFCSRMRG | GLY . AVALRH | GNVNLALG | QHL | DDL | ESF | MSCFHN | G | SMNTMKANY |
| tr\|F2U6G2\|F2U6G2_SALR5 | KEGSSRA | CAFCSRMRG | GLY . NVCRQNN | FTLLALG | QHL | DDL | ESF | MSAFYN | G | KLSSMKVNY |
| tr\|A0A068XG12\|A0A068XG12_HYMMI | EQCS | CSFCSRMRG | GLY . AAALKH | GNVNLALG | QHL | DDL | ESF | MSCFHN | G | AMNTMKANY |
| tr\|V4AD74\|V4AD74_LOTGI | YECASI | CSFCSRMRG | GLY . ACARRE | GNVNLALG | QHL | DDL | ESF | MSFHN | G | LRTMKACY |
| tr\|K1QLCO\|K1QLCO_CRAGI | ENCA | CSFCSRMRG | GLY . ACARKNN | GNVNLALG | QHL | DDL | ESF | MSFHN | G | LRTMKAHY |
| tr\|A7RG26\|A7RG26_NEMVE | TPEKH | KIAFASTKC | GLY . RKFI | LISWKKR | T | KKIRT | GNFYK | G | ITLFI | MSVFHN |
| tr\|A9V7P3\|A9V7P3_MONBE | ENLASI | CSFCSRMRG | GLY . ACARRE | GNVNLAMG | QHL | DDL | MAES | LM | MSLFHN | G |
| tr\|A0A1W0WVL6\|A0A1W0WVL6_HYPDU | KDVHSI | CSFCSRMRG | GLY . SCARRE | GNVNLAF | QHL | DDL | ESF | MSFHN | G | LRTMKACY |
| tr\|A0A1D1W406\|A0A1D1W406_RAMVA | EELNSI | CSFCSRMRG | GLY . ACARRN | GNVNLAF | QHL | DDL | ESF | MSVFHN | G | LRTMKASY |
| tr\|A0A0T6A0X9\|A0A0T6A0X9_9BACT | H . G . . . | CDVCSRHRRL | GLY . RIAAEQE | CTVLA | LGH | TAD | CAE | ALL | RN | LFNGRIASLP |
| tr\|A0A2N9N1R3\|A0A2N9N1R3_9BACT | H . G . . . | CDVCSRFRRA | GLY . EIAHN | GNVLA | F | AGHTA | DD | CE | ALL | RN |
| tr\|A0A2V8TFL7\|A0A2V8TFL7_9BACT | H . G . . . | CDLCSRFRRA | GLY . QIVRAL | GANVLA | F | AGHTA | DD | CE | ALL | RN |
| tr\|A0A1F7P5T9\|A0A1F7P5T9_9BACT | H . G . . . | CDVCSRHRRL | GLY . QAAQDL | CSVLA | LGH | TAD | CAE | ALL | RN | LFNGRIASLP |
| tr\|A0A1F7N3C9\|A0A1F7N3C9_9BACT | R . H . G . . . | CDVCSRHRRL | GLY . QAAQDL | CSVLA | LGH | TAD | CAE | ALL | RN | LFNGRIASLP |
| tr\|A0A2V2GQB9\|A0A2V2GQB9_9FIRM | RK ENP | CSLCAKMRG | GLY . L . DA | IA | EA | EA | EA | EA | EA | EA |
| tr\|B1I340\|B1I340_DESAP | KE GMPN | CRKGLKGLA | GLY . L . QALSL | GANVLA | LGH | L | DD | VIET | Y | LN |
| tr\|B7ASR1\|B7ASR1_9FIRM | I . EKSP | CYLCARMRRG | GLY . SYAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQ | IQTM | PKL |
| tr\|A0A1S9BX99\|A0A1S9BX99_9FIRM | I . PKSP | CYVCARMRRG | GLY . KEAQKL | CNKIALGHHF | DDVIET | IL | MGMLY | GAQ | YETMM | PKL |
| tr\|A0A174CU43\|A0A174CU43_ANAHA | I . EKSP | CYLCARMRRG | GLY . SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQ | VQTM | PKL |
| tr\|A0A1C5WY74\|A0A1C5WY74_9CLOT | V . DKSP | CYLCARMRRG | GLY . SHAKEL | CNKIALGHHF | DDVIET | TL | MGMLY | GAQ | VETMM | PKL |
| tr\|A0A1H9ZZ08\|A0A1H9ZZ08_9FIRM | I . PKSP | CYLCARMRRG | GLY . SRAKEL | CNKIALGHHF | DDVDET | VL | MGMLY | FAK | G | YETMM |
| tr\|R7E959\|R7E959_9FIRM | V . DQSP | CYLCARMRRG | GLY . HKAQEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQ | VQTM | PKL |
| tr\|A0A1G5EN24\|A0A1G5EN24_9FIRM | V . TDSP | CYLCARMRRG | GLY . KKAQEM | CNKIALGHHY | DDVIET | IL | MGMLY | GAQ | VQTM | PKL |
| tr\|R6QSU6\|R6QSU6_9FIRM | V . EKSP | CYLCARMRRG | GLY . NKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQ | VQTM | PKL |

| | | | | | | | | | | | | |
|--------------------------------|-----------|-----------|-------------|-----|--------|------------|--------|----|-------|------|--------|---|
| tr\|D5HJ18\|D5HJ18_9FIRM | | . V. EKSP | CYLCARMRRG | HL | SYAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQM | QTMMPK | L |
| tr\|A0A1C5QB90\|A0A1C5QB90_9FIRM | | . I. DRNP | CYLCARMRRG | LY | AKAKEL | CNKIALGHHF | DDVIET | IL | MGMLY | SGKV | ETMMPK | L |
| tr\|A0A1H9TDF0\|A0A1H9TDF0_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SYAQKL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr\|A0A1C5KP23\|A0A1C5KP23_9CLOT | | . I. DKNP | CYLCARMRRG | LY | SHAKEL | CNKIALGHHF | DDVIET | IL | MGMLY | GAKI | ETMMPK | L |
| tr\|R5C7F1\|R5C7F1_9FIRM | | . I. KSP | CYLCARMRRG | HL | KKAKEL | CNKIALGHHY | DDVIET | AF | MGMLY | SGQW | EAMLPK | L |
| tr\|R6LWZ2\|R6LWZ2_9FIRM | | . V. EKSP | CYLCARMRRG | LY | SYAKKL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr\|R5R1U1\|R5R1U1_9FIRM | | . I. EKSP | CYLCARMRRG | HL | SFAKEM | CNKIALGHHF | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|C9KJ69\|C9KJ69_9FIRM | | . V. EESS | CYLCARMRRG | LY | RKARAL | CNKIALGHHF | DDVIET | NL | MSMLY | SGAI | RTMMPK | V |
| tr\|R6WDB5\|R6WDB5_9FIRM | | . V. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQM | QTMMPK | L |
| tr\|R7BJZ6\|R7BJZ6_9FIRM | | . V. EKSP | CYLCARMRRG | HL | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQM | QTMMPK | L |
| tr\|A0A2S6HN32\|A0A2S6HN32_9BACE | | . V. EKSP | CYLCARMRRG | HL | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQM | QTMMPK | L |
| tr\|A0A1H5UR13\|A0A1H5UR13_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SNAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQI | QTMMPK | L |
| tr\|B5CL75\|B5CL75_9FIRM | | . V. EKSP | CYLCARMRRG | LY | SHAQKM | CNKIALGHHY | DDVIET | IL | MGMLY | SAQF | QTMMPK | L |
| tr\|A0A1Q9JUJ6\|A0A1Q9JUJ6_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A0A1I6X423\|A0A1I6X423_9FIRM | | . I. ENSP | CYLCARMRRG | HL | AKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R7R0R4\|R7R0R4_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A0A1T4PUK5\|A0A1T4PUK5_9FIRM | | . I. DKSP | CYLCARMRRG | LY | SNAKEL | CNKIALGHHY | DDVIET | IL | MGVLY | GGQV | QTMMPK | L |
| tr\|A0A174N7L5\|A0A174N7L5_9FIRM | | . I. ENNP | CYLCARMRRG | LY | SHAKEL | CNKIALGHHF | DDVIET | IL | MGMLY | SGKV | ETMMPK | L |
| tr\|A0A1C5VPX6\|A0A1C5VPX6_9FIRM | | . I. DKNP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHF | DDVIET | IL | MGMLY | SAKI | ETMMPK | L |
| tr\|U2EG64\|U2EG64_9FIRM | | . V. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1T4LYU6\|A0A1T4LYU6_9FIRM | | . V. EKSP | CYLCARMRRG | LY | SNAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|C2KWR4\|C2KWR4_9FIRM | | . I. DSSP | CYVCAARMRRG | HL | SKAKEL | CNKIALGHHF | DDVIET | VL | MGMLY | SGQF | QAMMPK | L |
| tr\|A0A1Q6S6R3\|A0A1Q6S6R3_9FIRM | | . I. EDS | CYLCARMRRG | LY | SHAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A0A1M6E180\|A0A1M6E180_9FIRM | | . V. EKSP | CYLCARMRRG | HL | NKAKEL | CNKIALGHHY | DDVIET | IM | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A2N5P2N9\|A0A2N5P2N9_RUMGN | | . V. EKSP | CYLCARMRRG | HL | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R6YU83\|R6YU83_9FIRM | | . I. EKNP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHF | DDVIET | IL | MGMLY | SGKV | ETMMPK | L |
| tr\|A0A1C6GY75\|A0A1C6GY75_9FIRM | | . I. EKSP | CYLCARMRRG | LY | NFAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr\|R2RKU5\|R2RKU5_ACIFV | | . I. EDS | CYLCARMRRG | LY | RKAREL | CNKIALGHHF | DDVIET | NL | MSMLY | SGAI | RTMPLR | L |
| tr\|A0A1I0BL00\|A0A1I0BL00_9FIRM | | . V. DKNP | CYLCARMRRG | HL | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr\|B0G358\|B0G358_9FIRM | | . I. DKNP | CYLCARMRRG | LY | SHAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | SGKI | ETMMPK | L |
| tr\|A0A1H9G440\|A0A1H9G440_9FIRM | | . K. AGSP | CYLCARMRRG | ALY | QKAREL | CNKIALGHHY | DDVIET | IL | MGMLY | SGQV | QTMMPK | L |
| tr\|D4RZP6\|D4RZP6_9FIRM | | . V. KQSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R7AKW6\|R7AKW6_9CLOT | | . I. EQNP | CYLCARMRRG | HL | AQAKAL | CNKIALGHHF | DDVIET | IL | MGMLY | SGKI | ETMMPK | L |
| tr\|R6M6V2\|R6M6V2_9CLOT | | . I. EKSP | CYLCARMRRG | LY | NKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A0A1D3TT13\|A0A1D3TT13_9FIRM | | . V. EKSP | CYLCARMRRG | HL | SRAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R5UY37\|R5UY37_9FIRM | | . V. ENNP | CYLCARMRRG | HL | HOAEVL | CNKIALGHHF | DDVIET | IL | MSMIY | GGQV | ETMMPK | L |
| tr\|EORVNT\|EORVNT_BUTTON | | . S. KGSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IF | MGMTY | GGQV | ETMMPK | L |
| tr\|A0A1I5XQ88\|A0A1I5XQ88_9FIRM | | . V. SGSP | CYLCARMRRG | ALY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQI | QTMMPK | L |
| tr\|A0A1H3X4G1\|A0A1H3X4G1_9FIRM | | . I. TSSP | CYLCARMRRG | LY | KKAKEL | CNKIALGHHF | DDVIET | AF | MGMMY | SGQW | EAMLPK | L |
| tr\|A0A1Q9K6P3\|A0A1Q9K6P3_9FIRM | | . I. EKNP | CYLCARMRRG | LY | SRAKSL | CNKIALGHHF | DDVIET | IL | MGMLY | SGKV | ETMMPK | L |
| tr\|U2U9W4\|U2U9W4_9FIRM | | . I. EKSP | CYVCAARMRRG | WLY | RRAREL | CNKIALGHHY | DDVIET | VL | MGMLY | SGQF | QAMMPK | L |
| tr\|R6NFY6\|R6NFY6_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr\|A0A1H3ZB04\|A0A1H3ZB04_9FIRM | | . I. EKSP | CYLCARMRRG | HL | NAAKER | CNKIALGHHF | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A0A1C5LN34\|A0A1C5LN34_9FIRM | | . I. ENSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A7VHD7\|A7VHD7_9CLOT | | . V. EKSP | CYLCARMRRG | HL | HFAQEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1H2XL03\|A0A1H2XL03_9FIRM | | . I. DKNP | CYLCARMRRG | HL | AKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R6URH0\|R6URH0_9CLOT | | . V. KYPY | CYLCARMRRG | LY | KKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|R7IV15\|R7IV15_9FIRM | | . V. EKSP | CYLCARMRRG | HL | NKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A6BDB1\|A6BDB1_9FIRM | | . I. DKNP | CYLCARMRRG | LY | SHAKEL | CNKIALGHHF | DDVIET | IL | MGMFY | GGKV | ETMMPK | L |
| tr\|A0A239RF45\|A0A239RF45_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHF | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1I4FSK7\|A0A1I4FSK7_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SNAKKL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr\|A0A2N0UJ41\|A0A2N0UJ41_9FIRM | | . V. DKYP | CYLCARMRRG | LY | KKAKQL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A5ZUM5\|A5ZUM5_9FIRM | | . B. EQSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1Q9J6X5\|A0A1Q9J6X5_9FIRM | | . I. EKNP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R6QH64\|R6QH64_9FIRM | | . I. DKNP | CYLCARMRRG | LY | SHAKEL | CNKIALGHHF | DDVIET | IL | MGMLY | SGKI | ETMMPK | L |
| tr\|A0A255IAE4\|A0A255IAE4_9FIRM | | . I. EKSP | CYLCARMRRG | HL | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr\|R5D646\|R5D646_9FIRM | | . V. EKSP | CYLCARMRRG | HL | HFAKDM | CNKIALGHHY | DDVIET | IL | MGMLY | SGQI | QTMMPK | L |
| tr\|A0A1C5SCE2\|A0A1C5SCE2_9CLOT | | . I. DRNP | CYLCARMRRG | NLY | AEAKAL | CNKIALGHHF | DDVIET | IL | MGMLY | SGKI | ETMMPK | L |
| tr\|G9WU95\|G9WU95_9FIRM | | . I. ESSP | CYVCAARMRRG | HL | SKAKEL | CNKIALGHHF | DDVIET | VL | MGMLY | SGQF | QAMMPK | L |
| tr\|D4J5M7\|D4J5M7_9FIRM | | . I. QKSP | CYLCARMRRG | HL | NKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1M7SFL4\|A0A1M7SFL4_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHF | DDVIET | VL | MGMLY | GGQI | QTMMPK | L |
| tr\|A0A1C5PQ80\|A0A1C5PQ80_9CLOT | | . I. EKSP | CYLCARMRRG | HL | SYAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1T4MVX1\|A0A1T4MVX1_9FIRM | | . I. EKSP | CYLCARMRRG | LY | NKAKEL | CNKIALGHHY | DDVIET | VL | MGMLY | GGQV | QTMMPK | L |
| tr\|R5JHV4\|R5JHV4_9FIRM | | . V. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A0U5NQ66\|A0A0U5NQ66_9CLOT | | . V. EKSP | CYLCARMRRG | LY | SHAKEL | CNKIALGHHF | DDVIET | TL | MGMFY | SGKV | ETMMPK | L |
| tr\|R7BIC3\|R7BIC3_9FIRM | | . I. EKSP | CYLCARMRRG | HL | NKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|R5EBZ7\|R5EBZ7_9CLOT | | . I. GGSP | CYLCARMRRG | HL | SQAQKL | CNKIALGHHF | DDVIET | IV | MGMLY | GGQI | QTMMPK | L |
| tr\|A0A1G5AAM6\|A0A1G5AAM6_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQI | QTMMPK | L |
| tr\|A0A1C5QDL9\|A0A1C5QDL9_9CLOT | | . I. ENSP | CYLCARMRRG | HL | AYAKEL | CNKIALGHHY | DDVVE | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A0A1Q9JZU8\|A0A1Q9JZU8_9FIRM | | . I. EKSP | CYLCARMRRG | HL | NKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|WOFHG5\|WOFHG5_9BACT | | . I. KKNP | CYLCARMRRG | LY | SRAKTL | CNKIALGHHY | DDVIET | VL | MGMLY | SGQF | RTMMPK | L |
| tr\|A0A1T4V7R0\|A0A1T4V7R0_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MSMIH | GAQI | QTMMPK | L |
| tr\|U2LSI7\|U2LSI7_9FIRM | | . V. QNNP | CYLCARMRRG | HL | NKAKEL | CNKIALGHHF | DDVIET | IL | MSMIY | GGQV | ETMMPK | L |
| tr\|R7C751\|R7C751_9CLOT | | . I. EKSP | CYLCARMRRG | HL | NFAREL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1H5X7G0\|A0A1H5X7G0_9FIRM | | . I. DKSP | CYLCARMRRG | HL | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQI | QTMMPK | L |
| tr\|R5NVSO\|R5NVSO_9CLOT | | . V. EKSP | CYLCARMRRG | HL | SOAKAL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1G6A4R8\|A0A1G6A4R8_EUBOX | | . A. KKNP | CYLCARMRRG | HL | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A1G5YA12\|A0A1G5YA12_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SRAKEL | CNKIALGHHY | DDVIET | IL | MGMIH | GAQI | QTMMPK | L |
| tr\|R6ED63\|R6ED63_9CLOT | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A0A1I4A1G1\|A0A1I4A1G1_9FIRM | | . I. EKSP | CYLCARMRRG | LY | NYARDL | CNKIALGHHF | DDVIET | IL | MSMLY | GGQV | QTMMPK | L |
| tr\|A0A1C5WQ42\|A0A1C5WQ42_9FIRM | | . I. EKSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHF | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|A0A0J1GF21\|A0A0J1GF21_9FIRM | | . V. DDSP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHY | DDVIET | IL | MGMMY | GGQI | ETMMPK | L |
| tr\|B7CBL3\|B7CBL3_9FIRM | | . I. EKNP | CYLCARMRRG | LY | NYAKNL | CNKIALGHHY | DDVIET | IL | MSMLY | GGQI | QTMMPK | L |
| tr\|R5ZIH2\|R5ZIH2_9FIRM | | . I. KKNP | CYLCARMRRG | HL | NYAKQL | CNKIALGHHY | DDVIET | IL | MSMLY | GGQI | QTMMPK | L |
| tr\|A0A2Y9B607\|A0A2Y9B607_RUMFL | | . I. EKNP | CYLCARMRRG | LY | SHAKAL | CNKIALGHHF | DDVIET | IL | MGMLY | GGQV | QTMMPK | L |
| tr\|B0MNV3\|B0MNV3_9FIRM | | . I. EKSP | CYLCARMRRG | HL | NYAKSL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr\|D4JJE1\|D4JJE1_9FIRM | | . I. EKSP | CYLCARMRRG | HL | AFAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|A0A173SBL1\|A0A173SBL1_9FIRM | | . I. EKSP | CYLCARMRRG | LY | NFAQQM | CNKIALGHHY | DDVIET | IL | MGMLY | SAQV | QTMMPK | L |
| tr\|R5GI28\|R5GI28_9FIRM | | . V. QNNP | CYLCARMRRG | HL | NKAKEL | CNKIALGHHF | DDVIET | IL | MSMIY | GGQV | ETMMPK | L |
| tr\|R5NQZ4\|R5NQZ4_9FIRM | | . I. EKSP | CYLCARMRRG | HL | SYAREM | CNKIALGHHY | DDVIET | IL | MGMLY | GAQM | QTMMPK | L |
| tr\|A0A1C6BHH6\|A0A1C6BHH6_9FIRM | | . V. ENNP | CYLCARMRRG | LY | SKAKEL | CNKIALGHHF | DDVIET | IL | MGMIY | GGQV | QTMMPK | L |
| tr\|R6NBF8\|R6NBF8_9FIRM | | . V. EKSP | CYLCARMRRG | LY | KFAKDM | CNKIALGHHY | DDVIET | IL | MGMLY | SGQV | QTMMPK | L |
| tr\|A5Z569\|A5Z569_9FIRM | | . V. EKSP | CYLCARMRRG | HL | SFAKEM | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R61848\|R61848_9FIRM | | . V. KKSP | CYLCARMRRG | LY | KFAQEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R5VV47\|R5VV47_9CLOT | | . V. DKSP | CYLCARMRRG | HL | NYAKEL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R7HSQ4\|R7HSQ4_9CLOT | | . I. EKSP | CYLCARMRRG | HL | NFAQQL | CNKIALGHHF | DDVIET | IL | MGMLY | GAQV | QTMMPK | L |
| tr\|R5SK03\|R5SK03_9CLOT | | . V. EKSP | CYLCARMRRG | HL | TYAKSM | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QTMMPK | L |
| tr R7N692 R7N692_9FIRM | | . V. EKSP | CYLCARMRRG | LY | AFAREL | CNKIALGHHY | DDVIET | IL | MGMLY | GAQI | QSMMPK | L |
| tr R5IGR7 R5IGR7_9CLOT | . . | | | | | | | | | | | |

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|----------------------------------|--------------------|------------|----|----|----------|---|------------|---------|----|--------|---|-----|---|---|---|---|---|---|---|---|---|
| tr R5KSL8 R5KSL8_9FIRM | I . EKSP | CYICARMRRG | HL | Y | NKAKEL | G | CNKIALGHHY | DDVIET | IL | MGMLY | G | SQV | Q | T | M | P | K | L | | | |
| tr\|W0U2V4\|W0U2V4_9FIRM | V . EKNP | CYLCARMRRG | H | LY | SKAQEL | G | CNKIALGHHY | DDVIET | IL | MSMLY | G | QQ | I | Q | T | M | P | K | L | | |
| tr\|A0A11IAHH3\|A0A11IAHH3_9FIRM | I . EKSP | CYICARMRRG | HL | Y | NEAKEL | G | CNKIALGHHY | DDVIET | IL | MGMLY | G | QQV | Q | T | M | P | K | L | | | |
| tr\|A0A132NXP9\|A0A132NXP9_GIATN | Q . TSN | CSFCARMRRG | T | LY | THCQKL | G | INKLALGHH | EDVNES | LL | MSLFFN | G | K | L | W | T | Q | G | P | I | | |
| tr\|A0A146K8R2\|A0A146K8R2_9EUKA | P . GTSA | CSFCARMRRG | A | LY | TFCLEKKI | N | KLALGHH | ADDAIES | ML | MSQQFN | G | N | G | T | L | W | T | Q | C | P | V |
| tr\|B1R6Y8\|B1R6Y8_CLOPF | K . DYP | CYLCARMRRG | S | LY | GKAKEL | G | CNKIALGHHF | NDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A1M6D282\|A0A1M6D282_9CLOT | K . DYP | CYLCARMRRG | S | LY | SKAKEL | G | CNKIALGHHF | NDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A173YDX8\|A0A173YDX8_CLOVE | K . DYP | CYLCARMRRG | S | LY | AKAREL | G | CNKIALGHHF | NDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A1G5RQX6\|A0A1G5RQX6_9FIRM | A . DYP | CYLCARMRRG | I | LY | KKAQEL | G | CNKVALGHH | DDVIET | TL | LNLF | F | G | T | F | T | M | P | K | L | | |
| tr\|D8GMF1\|D8GMF1_CLOLD | K . DYP | CYLCARMRRG | A | LY | SKAKEL | G | CNKIALGHHF | NDVIET | TL | LNLF | Y | S | G | S | F | K | T | M | P | K | L |
| tr\|A0A134AAP6\|A0A134AAP6_9FIRM | G . DYP | CYLCARMRRG | S | LY | AKAKEL | G | CNKIALGHHF | NDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A210N1A5\|A0A210N1A5_9CLOT | K . EYP | CYLCARMRRG | H | LY | HMAERER | G | CNKIALGHHF | DDVIET | VM | LNVL | V | H | G | T | F | Q | A | M | P | K | L |
| tr\|A0A1S1VCE7\|A0A1S1VCE7_9FIRM | S . DYP | CYLCARMRRG | A | LY | SRAQEL | G | CNKISLGHH | NDVIET | TM | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|W8U9H6\|W8U9H6_PEPAC | K . DYP | CYLCARMRRG | A | LY | SKAKEL | G | CNKIALGHHY | NDVIET | TL | LNML | Y | A | G | S | F | K | T | M | P | K | L |
| tr\|A0A1I4WPJ0\|A0A1I4WPJ0_9FIRM | S . DYP | CYLCARMRRG | A | LY | GKAEEL | G | CNKIALGHHF | DDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|ASN1X3\|ASN1X3_CLOK5 | K . DYP | CYICARMRRG | A | LY | SKAQEL | G | SKLALGHHF | NDVIET | TL | LNLF | Y | G | S | F | K | T | M | P | K | L | |
| tr\|A0A1M6J810\|A0A1M6J810_9FIRM | K . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKIALGHHF | NDVIET | TL | LNMF | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A2T0BP99\|A0A2T0BP99_9CLOT | R . DYP | CYLCARMRRG | A | LY | TKAREL | G | CNKIALGHHF | NDVIET | TL | LNLF | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A1I5A132\|A0A1I5A132_9CLOT | Q . DYP | CYLCARMRRG | S | LY | EYAQSL | G | CNKIALGHHF | NDVIET | VM | LNVL | Y | G | T | F | K | S | M | P | K | L | |
| tr\|A0A0X8JSV6\|A0A0X8JSV6_9FUSO | K . DYP | CYLCARMRRG | A | LY | TKAVSL | G | CNKIALGHHF | DDVET | TL | MSMF | Y | M | G | K | F | E | T | M | P | K | L |
| tr\|A0A101WQZ2\|A0A101WQZ2_9FIRM | K . DYP | CYLCARMRRG | A | LY | SKAMEL | G | CNKIALGHHF | NDVIET | TM | LNLF | Y | T | G | S | F | K | T | M | P | K | L |
| tr\|K0B3S7\|K0B3S7_CLOA9 | K . DYP | CYLCARMRRG | S | LY | AKASEL | G | CNKIALGHHF | NDVIET | TM | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A0P8VR55\|A0A0P8VR55_9CLOT | Q . DYP | CYLCARMRRG | A | LY | NKAQEL | G | CNKIALGHHF | NDVIET | TL | LNLF | Y | A | G | C | F | K | T | M | P | K | L |
| tr\|A0A069R172\|A0A069R172_PELI | K . DYP | CYLCARMRRG | A | LY | SKAKEL | G | CNKIALGHHF | NDVIET | TL | LNMF | Y | A | G | S | F | K | T | M | P | K | L |
| tr\|A0A1M6RYX4\|A0A1M6RYX4_9CLOT | S . ENP | CYLCARMRRG | A | LY | SKAKEL | G | CNKIALGHHF | NDVIET | TL | LNLF | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A095XS5V5\|A0A095XS5V5_9FIRM | S . DYP | CYLCARMRRG | A | LY | GKAEEL | G | CNKIALGHHF | DDVIET | TM | MNLC | S | G | N | F | K | T | M | P | K | L | |
| tr\|A0A1V4SXM9\|A0A1V4SXM9_9CLOT | R . EYP | CYLCARMRRG | S | LY | AKAQEL | G | CNKIALGHHY | NDVIET | TL | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|D0GJU2\|D0GJU2_9FUSO | K . DYP | CYLCARMRRG | S | LY | TKAASY | G | CNKIALGHH | DDVIET | TL | MSIFYM | G | K | F | E | T | M | P | K | L | | |
| tr\|A0A1U7M2L2\|A0A1U7M2L2_TISCR | G . DYP | CYLCARMRRG | S | LY | AKAQEL | G | CNKIALGHHF | NDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A099RUP9\|A0A099RUP9_9CLOT | R . DYP | CYLCARMRRG | S | LY | NKAQEL | G | CNKIALGHHF | NDVIET | TL | LNLF | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A0L0W9M4\|A0A0L0W9M4_CLOPU | K . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKIALGHHF | NDVIET | TL | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A1F8TXJ0\|A0A1F8TXJ0_9FIRM | K . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKIALGHHF | NDVIET | TM | LNIA | T | G | C | F | K | T | M | P | K | L | |
| tr\|U2SSC1\|U2SSC1_9FUSO | K . DYP | CYLCARMRRG | S | LY | TKATSL | G | CNKIALGHHF | DDVET | TL | MSMF | Y | M | G | K | F | E | T | M | P | K | L |
| tr\|A0A1G4FP35\|A0A1G4FP35_9FIRM | K . DYP | CYLCARMRRG | A | LY | RRASEL | G | CNKIALGHHF | NDVIET | IM | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|U4KQE2\|U4KQE2_9MOLU | S . DNP | CYLCARMRRG | F | LY | NAAKEL | G | CNKIALGHHY | NDVIET | TM | LNVL | Y | G | G | F | K | T | M | P | K | L | |
| tr\|V7I162\|V7I162_9CLOT | Q . DYP | CYLCARMRRG | S | LY | EKAKAL | G | CNKIALGHHF | NDVIET | AL | LNVI | Y | G | T | F | K | A | M | L | P | K | L |
| tr\|A0A1H3AQW8\|A0A1H3AQW8_9FIRM | E . DYP | CYLCARMRRG | A | LY | GKAQEL | G | CNKIALGHHF | NDVIET | TL | LNLC | S | G | N | F | K | T | M | P | K | L | |
| tr\|F9VJ52\|F9VJ52_ARTSS | R . DYP | CYLCARMRRG | F | LY | AKAKEL | N | KNLALGHHF | NDVIET | TL | LNVI | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A084J8N3\|A0A084J8N3_9CLOT | K . DYP | CYLCARMRRG | A | LY | SEAEEL | G | CNKIALGHHF | NDVIET | TM | LNVL | Y | G | T | F | K | T | M | P | K | L | |
| tr\|A0A1T4XT21\|A0A1T4XT21_9CLOT | K . DYP | CFMCARMRRG | A | LY | SKAKEL | G | CNKIALGHHF | DDVIET | VL | LNIFYT | G | C | F | K | T | M | P | K | L | | |
| tr\|A0A1M6CD68\|A0A1M6CD68_9CLOT | K . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKIALGHHF | NDIET | TM | MNLYT | G | S | F | K | T | M | P | K | L | | |
| tr\|E3PXH3\|E3PXH3_ACESD | Q . DYP | CYLCARMRRG | A | LY | NKTEEL | G | CNKIALGHHF | NDVIET | TM | LNMLY | T | G | A | F | K | T | M | P | K | L | |
| tr\|A0A1D8GNY9\|A0A1D8GNY9_9CLOT | K . DYP | CYLCARMRRG | A | LY | KRAQAL | G | CNKIALGHHF | NDVIET | TM | LNMLY | T | G | S | F | K | T | M | P | K | L | |
| tr\|L1QHD2\|L1QHD2_9CLOT | K . EYP | CYLCARMRRG | S | LY | NKAREL | G | CNKIALGHHY | NDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A0E3JQG2\|A0A0E3JQG2_CLOSL | Q . KYP | CYLCARMRRG | A | LY | TKAKEL | G | CNKIALGHHF | NDVIET | TL | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A2N1PGX0\|A0A2N1PGX0_9BACT | S . DNP | CYLCARMRRG | F | LY | NAAQEM | G | CNKIALGHHF | DDVIET | TM | LNVL | Y | G | G | F | K | T | M | P | K | L | |
| tr\|D9SL09\|D9SL09_CLOC7 | Q . DYP | CYLCARMRRG | V | LY | SKAQEL | G | CNKIALGHHY | NDVIET | TM | LNLF | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A239JSI7\|A0A239JSI7_9FIRM | K . DYP | CYLCARMRRG | A | LY | RKTQEL | G | CNKIALGHHF | NDVIET | TM | LNLF | Y | T | G | K | V | S | T | M | P | K | L |
| tr\|A0A2N2EED3\|A0A2N2EED3_9FIRM | N . DYP | CYLCARMRRG | F | LY | AKAQEL | N | KNLALGHHF | NDVIET | TL | MNLY | Y | A | G | S | F | K | T | M | P | K | L |
| tr\|A0A2N2B2N9\|A0A2N2B2N9_9FIRM | K . DYP | CYLCARMRRG | A | LY | AKAQEL | K | CNKIALGHHF | NDVIET | TL | MNLY | Y | A | G | S | F | K | T | M | P | K | L |
| tr\|A0A1M6R9N3\|A0A1M6R9N3_9CLOT | Q . DYP | CYLCARMRRG | A | LY | NKAQEL | G | CNKVALGHHF | NDVIET | TL | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A1I3QLZ5\|A0A1I3QLZ5_9FIRM | S . DYP | CYLCARMRRG | A | LY | NKAEEL | G | CNKIALGHHF | DDVIET | TM | LNLC | A | G | N | F | K | T | M | P | K | L | |
| tr\|A0A1V1HZ83\|A0A1V1HZ83_9FIRM | K . DYP | CYLCARMRRG | A | LY | SKAEEL | G | CNKIALGHHY | DDVIET | TM | LNLC | A | G | N | F | K | T | M | P | K | L | |
| tr\|A0A0R3JYX8\|A0A0R3JYX8_9CLOT | K . DYP | CYLCARMRRG | A | LY | SKAKEL | G | CNKIALGHHY | NDVIET | TL | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A1M4T9L7\|A0A1M4T9L7_9FIRM | N . DYP | CYLCARMRRG | S | LY | GKAKEL | G | CNKIALGHHF | NDVIET | TM | LNLC | A | G | S | F | K | T | M | P | K | L | |
| tr\|A0A1C6BDC9\|A0A1C6BDC9_9CLOT | K . EYP | CYLCARMRRG | S | LY | AKAREL | G | CNKIALGHHY | NDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|R7RQE1\|R7RQE1_9CLOT | K . DYP | CYLCARMRRG | A | LY | SKAKEL | G | CNKIALGHHF | NDVIET | IM | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A1I2P6D5\|A0A1I2P6D5_9CLOT | Q . EYP | CYLCARMRRG | F | LY | AKAKEL | G | CNKIALGHHF | NDVIET | TM | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A1V4IHV8\|A0A1V4IHV8_9CLOT | S . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKVALGHHY | NDVIET | VL | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A1M5UPJ6\|A0A1M5UPJ6_9CLOT | K . DYP | CYLCARMRRG | F | LY | SKALEL | G | CNKIALGHHF | DDVIET | TM | LNVL | Y | S | G | S | F | K | T | M | P | K | L |
| tr\|A0A1M4VWP2\|A0A1M4VWP2_9CLOT | K . DYP | CYLCARMRRG | A | LY | SKAKEL | G | CNKIALGHHY | NDVIET | TM | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|M1Z6M0\|M1Z6M0_9FIRM | E . DYP | CYLCARMRRG | A | LY | GKAQEL | G | CNKIALGHHF | NDVIET | TL | LNLC | S | G | N | F | K | T | M | P | K | L | |
| tr\|A0A0P8YVR7\|A0A0P8YVR7_9CLOT | G . DYP | CFMCARMRRG | A | LY | SRAQEL | G | CNKIALGHHF | NDVIET | VL | LNLFY | T | G | S | F | K | S | M | P | K | L | |
| tr\|A0A1I7IFT5\|A0A1I7IFT5_9CLOT | K . DYP | CYLCARMRRG | S | LY | SKAQEL | G | CNKIALGHHY | NDVIET | TM | LNVL | Y | G | N | F | K | T | M | P | K | L | |
| tr\|A0A1V4IEB9\|A0A1V4IEB9_9CLOT | K . DYP | CYLCARMRRG | S | LY | AKAEFF | G | CNKIALGHHY | NDVIET | TM | LNLF | Y | G | N | F | K | T | M | P | K | L | |
| tr\|A0A1S8TRH4\|A0A1S8TRH4_9CLOT | K . EYP | CYLCARMRRG | S | LY | AKAEFF | G | CNKIALGHHY | NDVIET | TM | LNLF | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A0L6ZAD3\|A0A0L6ZAD3_9CLOT | K . DYP | CYLCARMRRG | F | LY | SKAKEL | G | CNKLSLGH | NDVIET | TL | LNLF | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A150FSS8\|A0A150FSS8_CLOPD | S . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKIALGHHF | NDVIET | TM | LNLF | Y | A | G | S | F | K | T | M | P | K | L |
| tr\|A0A2I4P454\|A0A2I4P454_CLOBO | K . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKIALGHHF | NDVIET | IL | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A1T4W6M5\|A0A1T4W6M5_9CLOT | K . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKIALGHHF | NDVIET | TL | LNVL | Y | T | G | N | F | K | T | M | P | K | L |
| tr\|A0A1W1XPH3\|A0A1W1XPH3_9CLOT | K . DYP | CYLCARMRRG | A | LY | SKAKEL | G | CNKIALGHHF | NDIET | TM | LNVL | Y | S | G | N | F | K | T | M | P | K | L |
| tr\|A0A0C1U2P7\|A0A0C1U2P7_9CLOT | K . DYP | CYLCARMRRG | A | LY | SKAQEL | G | CNKIALGHHF | NDVIET | TL | LNVL | Y | A | G | N | F | K | T | M | P | K | L |
| tr\|A0A1G9ECK5\|A0A1G9ECK5_9CLOT | Q . EYP | CFMCARMRRG | A | LY | KKAQEL | G | CNKIALGHHF | NDVIET | VM | LNLFY | T | G | N | F | K | T | M | P | K | L | |
| tr\|A0A1I0GJZ8\|A0A1I0GJZ8_9CLOT | R . EYP | CYLCARMRRG | A | LY | KKTQEL | G | CNKIALGHHF | NDVIET | TM | LNLFY | T | G | N | F | K | T | M | P | K | L | |
| tr A0A1D7XIC3 A0A1D7XIC3_9CLOT | K . DYP | CYLCARMRRG | S | LY | NKAQDL | G | CNKIALGHHY | NDVIET | TL | LNLF | Y | A | G | N | F | K | T | M | P | K | L |
| tr A0A0F2Q1L1 A0A0F2Q1L1_9CLOT | | | | | | | | | | | | | | | | | | | | | |

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|----------------------------------|-----------------------|------|----------|--------|----|-------|-------|--------|--------|--------|--------|------|--------|------|-----|-----|------|-----|-------|-------|------|------|-----|-----|----|---|-----|---|-----|-----|-----|
| tr A0A174A4G3 A0A174A4G3_9CLOT | QDYP | CYL | CARMRRG | LY | EK | AKEL | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|A6TTE5\|A6TTE5_ALKMQ | KEYP | CFM | CAKMRRG | LY | QK | AQEL | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|U4KLZ0\|U4KLZ0_ACHP3 | KENP | CYL | CAKMRRG | LY | QK | AKEL | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|A0A0J8DD49\|A0A0J8DD49_CLOCY | KDYP | CYMC | ARMRRG | LY | SK | AKEL | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|I7LJ37\|I7LJ37_9CLOT | KDYP | CYMC | ARMRRG | LY | NK | AKEL | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|A0A2N1Q0A1\|A0A2N1Q0A1_9BACT | KENP | CYMC | ARMRRG | LY | QK | AKEL | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|A0A2X2L491\|A0A2X2L491_9FUSO | KDYP | CYMC | AKMRRG | LY | SK | ATEL | CNK | LALGH | HY | DDVVET | TM | MS | MFY | MG | GK | FET | ML | PKL | | | | | | | | | | | | | |
| tr\|A0A1M4M946\|A0A1M4M946_9FIRM | QDYP | CYMC | ARMRRG | LY | NK | TKE | L | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | |
| tr\|A0A1H3RJ2V2\|A0A1H3RJ2V2_9FIRM | KDYP | CYMC | ARMRRG | LY | GK | TKE | L | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | |
| tr\|J4UUAU8\|J4UUAU8_9FIRM | GDYP | CYMC | AKMRRG | LY | NI | AEL | K | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | |
| tr\|A8MG47\|A8MG47_ALKOO | KEYP | CFM | CAKMRRG | LY | QK | AQEL | CNK | LALGH | HY | NDVVET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|J6H3Q8\|J6H3Q8_9FIRM | GDYP | CYMC | AKMRRG | LY | NI | ARSL | D | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | |
| tr\|A0A1H5WXD0\|A0A1H5WXD0_9CLOT | KDYP | CYMC | ARMRRG | LY | NK | AKEL | CNK | LALGH | HY | NDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|A0A1F8UHH3\|A0A1F8UHH3_9FIRM | SDYP | CYL | CARMRRG | LY | LK | AKEL | CNK | LALGH | HY | DDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | | |
| tr\|D1AIH2\|D1AIH2_SEBTE | KDYP | CYMC | AKMRRG | LY | TK | AVSL | G | CNK | LALGH | HY | DDVAET | TM | LM | SMF | QMS | KY | ET | ML | PKL | | | | | | | | | | | | |
| tr\|A0A1COADV0\|A0A1COADV0_9FIRM | SDYP | CYMC | AKMRRG | LY | NI | ATSL | N | CNK | LALGH | HY | DDVIET | TM | LN | LY | AG | GN | FKT | ML | PKL | | | | | | | | | | | | |
| tr\|A0A1K1NPP9\|A0A1K1NPP9_9BACT | ASAPVPAVSTAGAIAGSKKPA | CFL | CSWQRK | QF | NL | AQEL | N | CTK | IAFGHH | QD | I | HTAL | MN | LT | FQ | G | H | F | T | MPAKL | | | | | | | | | | | |
| tr\|A0A1H8CKM7\|A0A1H8CKM7_9BACT | ..LAEQSSIKRKQ | QF | ..LAEQ | EL | G | CNK | LALGH | HY | QD | I | HTAL | MN | LT | FQ | G | H | F | T | MPAKL | | | | | | | | | | | | |
| tr\|X8GV28\|X8GV28_9FIRM | ..E.IENP | CYL | CARMRRG | LY | AK | AREL | CNK | LALGH | HY | DDVIET | TM | LM | GM | LY | GQ | I | Q | T | M | PKV | | | | | | | | | | | |
| tr\|A0A173V180\|A0A173V180_9FIRM | ..V.DKNP | CYL | CARMRRG | LY | SK | AKEL | CNK | LALGH | HY | DDVIET | TM | LM | GM | LY | GQ | I | Q | T | M | PKV | | | | | | | | | | | |
| tr\|R5VBQ7\|R5VBQ7_9FIRM | ..I.TDSP | CYL | CARMRRG | LY | SK | AREL | CNK | LALGH | HY | DDVIET | TM | LM | GM | LY | GQ | I | Q | T | M | PKV | | | | | | | | | | | |
| tr\|A0A1Y4HTK3\|A0A1Y4HTK3_9FIRM | ..A.EKSP | CYL | CARMRRG | LY | KH | ARAL | CNK | LALGH | HY | DDVIET | TM | LM | SM | LY | GA | E | M | T | M | PKV | | | | | | | | | | | |
| tr\|A0A0J0TV39\|A0A0J0TV39_PAESO | ..R.K..EKNP | CSL | CANLRRG | ALN | DN | AKEL | CNK | VALGHH | K | DDAVET | FL | MS | MFY | EG | RS | CF | S | P | K | T | | | | | | | | | | | |
| tr\|R9T2S6\|R9T2S6_9FIRM | ..ENSP | CYL | CARMRRG | LY | SK | AREL | CNK | LALGH | HY | DDVIET | TM | LM | GM | LY | GA | Q | V | T | M | PKV | | | | | | | | | | | |
| tr\|A0A2U0UGL2\|A0A2U0UGL2_9BACE | ..TESP | CYL | CARMRRG | LY | SK | AREL | CNK | LALGH | HY | DDVIET | TM | LM | GM | LY | GA | Q | V | T | M | PKV | | | | | | | | | | | |
| tr\|A0A2P4V576\|A0A2P4V576_CAERE | ..PGLRSI | CAF | CSRMKRG | LA | AA | AQYHN | N | V | LAMGQH | L | DDLAES | FF | IA | AF | QNG | N | L | S | T | M | KAQY | | | | | | | | | | |
| tr\|A0A158QJP7\|A0A158QJP7_HAEP | ..NNVRSI | CAF | CSRMKRG | LA | AA | AQYHN | N | V | LAMGQH | L | DDLAES | FF | IA | AF | QNG | N | L | S | T | M | KAQY | | | | | | | | | | |
| tr\|A0A0N5AD38\|A0A0N5AD38_9BILA | ..PKCRSI | CGY | CSRMKRG | LA | AA | AQYHN | N | V | LAMGQH | L | DDLAES | FF | IA | AF | QNG | N | L | S | T | M | KAQY | | | | | | | | | | |
| tr\|A0A1I7ZGR2\|A0A1I7ZGR2_9BILA | ..KECRSI | CGF | CSRMKRG | LA | AA | AQYHN | N | V | LAMGQH | L | DDLAES | FF | IA | AF | QNG | N | L | S | T | M | KAQY | | | | | | | | | | |
| tr\|H3FCD7\|H3FCD7_PRIPA | ..KNLRSI | CAF | CSRMKRG | LA | AA | AQYHN | N | V | LAMGQH | L | DDLAES | FF | IA | AF | QNG | N | L | S | T | M | KAQY | | | | | | | | | | |
| tr\|A0A0R3SHK2\|A0A0R3SHK2_HYMDI | ..DQCSSI | CSF | CSRMKRG | RIY | AA | ALKH | G | N | V | I | ALGQH | L | DDLAES | FF | MS | CF | H | N | G | L | M | KAHY | | | | | | | | | |
| tr\|A0A1E1XBM3\|A0A1E1XBM3_9ACAR | ..PECTSI | CSF | CSRMKRG | RIY | AC | AREL | G | N | V | I | ALGQH | L | DDLAES | FF | MS | CF | H | N | G | L | M | KAHY | | | | | | | | | |
| tr\|R6Z006\|R6Z006_9FIRM | ..H.MK..GDQLP | CS | CSRMKKA | AIN | RV | ANEL | G | F | K | V | I | FAHN | DD | DAET | LI | MN | TH | GR | L | A | T | F | S | PKM | | | | | | | |
| tr\|A0A1V5UJ98\|A0A1V5UJ98_9BACT | ..Q.KEKQNLPLPL | CS | CSRMKKA | AIN | EV | AKKI | G | A | N | K | V | A | F | A | H | DD | DAET | LI | MN | TH | GR | L | A | T | F | S | PKM | | | | |
| tr\|A0A1V6IJD5\|A0A1V6IJD5_9BACT | ..Q.KEKQGLPLPL | CS | CSRMKKA | AIN | EV | ANKL | G | A | N | K | V | A | F | A | H | DD | DAET | LI | MN | TH | GR | L | A | T | F | S | PKM | | | | |
| tr\|A0A1V6FCC4\|A0A1V6FCC4_9BACT | ..Q.QTKQGLAKPL | CS | CSRMKKA | AIN | EV | AKKI | G | A | N | K | V | A | F | A | H | DD | DAET | LI | MN | TH | GR | L | A | T | F | S | PKM | | | | |
| tr\|A0A1V5HTP1\|A0A1V5HTP1_9BACT | ..H.QK..GKHIP | CS | CSRMKKA | AMN | SV | AHRL | G | A | N | K | V | A | F | A | H | DD | DAET | LI | MN | TH | GR | L | A | T | F | S | PKM | | | | |
| tr\|R7DSC3\|R7DSC3_9FIRM | ..H.KK..DKLP | CS | CSRMKKA | AIN | LS | AHQH | G | A | N | K | V | A | F | A | H | DD | DAET | LI | MN | TH | GR | L | A | T | F | S | PKM | | | | |
| tr\|A0A1Y2CT79\|A0A1Y2CT79_9FUNG | ..PNQP | CFM | CAKMRRG | LY | RK | AKEL | CNK | LALGH | HY | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | | | | | | | | |
| tr\|W8JGB0\|W8JGB0_9CHLA | ..PEVLE | CYT | CSQVRRRL | LF | QA | AEI | G | A | S | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | | |
| tr\|G4NP34\|G4NP34_CHLT4 | ..TENPE | CYT | CSRI | RRRL | LF | DT | AKAV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A2A4YC14\|A0A2A4YC14_9BACT | ..IDTLE | CYT | CSRI | RRRL | LF | AA | AKKL | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A0C1H3W6\|A0A0C1H3W6_9BACT | ..LEKLE | CYS | CSRRER | RL | LF | EA | AKSL | G | I | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A0C1CA75\|A0A0C1CA75_9BACT | ..LESLE | CY | G | CSRRER | RL | LF | EA | AKSL | G | I | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV |
| tr\|Q5L5X2\|Q5L5X2_CHLAB | ..PEVPE | CYS | CSQVRR | RL | LF | QA | AKDV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A1F8JPS7\|A0A1F8JPS7_9BACT | ..REDLE | CYS | CSRRER | RL | LF | NA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A090D241\|A0A090D241_9BACT | ..LEGLE | CY | G | CSRRER | RL | LF | NA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV |
| tr\|A0A2A4X7F6\|A0A2A4X7F6_9BACT | ..EDQLE | CYR | CSRRER | RL | LF | NA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A212KNQ6\|A0A212KNQ6_9CHLA | ..REKLE | CYR | CSRRER | RL | LF | NA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A2HOVXW5\|A0A2HOVXW5_9BACT | ..LEDLE | CYR | CSRRER | KL | IF | DA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A1F8J4G6\|A0A1F8J4G6_9BACT | ..KDTLE | CYR | CSRRER | KL | IF | DA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A0C1HRT1\|A0A0C1HRT1_9BACT | ..LETLE | CYS | CSRRER | SL | LF | EA | AKSV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A2E3LYW0\|A0A2E3LYW0_9BACT | ..LDTLE | CYS | CSRRER | KL | IF | DA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A078LBF5\|A0A078LBF5_9CHLA | ..LETLE | CYS | CSRRER | SL | LF | EA | AKSV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A1F8JX30\|A0A1F8JX30_9BACT | ..IKKTN | CYS | CSRRER | KL | IF | EA | AKSV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A2HOVVF5\|A0A2HOVVF5_9BACT | ..LEDLE | CYS | CSRRER | KL | IF | DA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|T5K7U9\|T5K7U9_9CHLA | ..PETPE | CYS | CSQVRR | RL | LF | QA | AKDV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A2H9SVY0\|A0A2H9SVY0_9BACT | ..LESLE | CYS | CSRRER | RL | LF | DA | AKSV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|V8TPD5\|V8TPD5_9CHLA | ..PETPE | CYS | CSQARR | RL | LF | QA | AKDV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|Q254M9\|Q254M9_CHLFF | ..PEVPE | CYS | CSQVRR | RL | LF | QA | AKDV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A173E038\|A0A173E038_9CHLA | ..PEVLE | CYS | CSQVRR | RL | LF | QA | AKDV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A1A9HVJ8\|A0A1A9HVJ8_9CHLA | ..PDTPE | CYP | CSQVRR | RL | LF | QA | AKDV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|F8L6X1\|F8L6X1_SIMNZ | ..RETLS | CYR | CSRRER | KL | IF | EA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A0U5JAB3\|A0A0U5JAB3_9BACT | ..LETLE | CYS | CSRRER | RL | LF | DA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A1F8JQJ4\|A0A1F8JQJ4_9BACT | ..EGGLE | CYR | CSRRER | KL | IF | EA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|Q9Z8S7\|Q9Z8S7_CHLNP | ..PETPE | CYP | CSQARR | RL | LF | QA | AKDV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A2R8FAY6\|A0A2R8FAY6_9CHLA | ..SETPE | CYP | CSQARR | RL | LF | QA | AKDV | G | A | T | A | V | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|D6VXT5\|D6VXT5_WADWC | ..LETLE | CYS | CSRRER | KL | IF | EA | AKKV | G | A | T | T | A | F | G | H | HH | DD | I | ET | TM | LN | IF | Y | AG | C | Y | K | T | M | PKV | |
| tr\|A0A1M3CQO7\|A0A1M3CQO7_9CHLA | ..LDTLE | CYS | CSRRER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--------------------------------|---|
| tr\|A0A256YLA3\|A0A256YLA3_9CREN | R . E K . K L . P Y L P . C S Y C G V F R R Y L L N . K V A R E M G T V L A T A H N L D D I I Q T Y M M N I I K N S W D K V A R L A P |
| tr\|A0A2D6R8H3\|A0A2D6R8H3_9ARCH | N . K . . G T . K K K P . C N V C G V W R R Y S L N . K Y A R K F G A T K V V T G H N L D D E A Q V I L M N I F K A N T K L A G R I G P |
| tr V9IMM0 V9IMM0_APICE | D . R G G E G V D A S G A C S F C D R A T R A Q L Y . A I A K R H N Y N V L A V G Q H L D D L T E G F L V S V F H G K L R T M K A H Y |

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tr|A0A2P8VLK6|A0A2P8VLK6_9ENTR
tr|A0A0H3I9P2|A0A0H3I9P2_PECSS
tr|A0A2X2A3V8|A0A2X2A3V8_9GAMM
tr|A0A1K1LJ61|A0A1K1LJ61_9PROT
tr|A0A154U724|A0A154U724_NEIFL
tr|A0A1V2DX27|A0A1V2DX27_9ALTE
tr|W0HXP0|W0HXP0_9GAMM
tr|A0A265QRM6|A0A265QRM6_AGGAC
tr|A0A1B6B2J0|A0A1B6B2J0_ALCFA
tr|A0A2U8FW74|A0A2U8FW74_9BURK
tr|A0A246J2Z4|A0A246J2Z4_9BURK
tr|A0A0U3KA27|A0A0U3KA27_9BURK
tr|A0A099LFJ1|A0A099LFJ1_9GAMM
tr|A0A2N4XR11|A0A2N4XR11_9RHO
tr|C6X8M4|C6X8M4_METGS
tr|A0A1I2G6V5|A0A1I2G6V5_9BURK
tr|F7RWZ5|F7RWZ5_9GAMM
tr|A0A1C6LTR8|A0A1C6LTR8_9NEIS
tr|A0A1F4M1Z4|A0A1F4M1Z4_9BURK
tr|A0A1D8J3B6|A0A1D8J3B6_9BURK
tr|A0A2A2AP57|A0A2A2AP57_9BURK
tr|A0A0K6GZP4|A0A0K6GZP4_9NEIS
tr|A0A0S9F0W6|A0A0S9F0W6_9BURK
tr|A0A1N7A9F0|A0A1N7A9F0_9GAMM
tr|A0A1F4G480|A0A1F4G480_9BURK
tr|A0A2S0P7B7|A0A2S0P7B7_9NEIS
tr|K2BEF1|K2BEF1_9ZZZZ
tr|A0A1D9GWF3|A0A1D9GWF3_9BURK
tr|A0A163C6B3|A0A163C6B3_9NEIS
tr|D2TZ97|D2TZ97_9GAMM
tr|A0A0P0MIV0|A0A0P0MIV0_9BURK
tr|L2EN66|L2EN66_9BURK
tr|A0A0P1D2N2|A0A0P1D2N2_9NEIS
sp|Q12N51|TTCA_SHEDO
tr|A0A1U9JN14|A0A1U9JN14_9NEIS
tr|A0A1Y5D1A3|A0A1Y5D1A3_9GAMM
tr|A0A1L8MBV1|A0A1L8MBV1_9ALTE
tr|A0A080K7B7|A0A080K7B7_9NEIS
tr|A0A2N9X7G9|A0A2N9X7G9_9NEIS
tr|A0A248LMP6|A0A248LMP6_9NEIS
tr|G2IW96|G2IW96_PSEUL
tr|A0A136H2U1|A0A136H2U1_9GAMM
tr|A0A0M2V1O9|A0A0M2V1O9_9GAMM
tr|A0A0T9PB77|A0A0T9PB77_9GAMM
tr|A0A1I7MJA6|A0A1I7MJA6_9GAMM
sp|B1KFY6|TTCA_SHEWM
tr|A0A1H8PUT2|A0A1H8PUT2_9BURK
sp|Q15U56|TTCA_PSEAG
sp|A1VJK9|TTCA_POLNA
tr|A0A1X0W1Y8|A0A1X0W1Y8_9GAMM
tr|A0A0A3BCC4|A0A0A3BCC4_9PAST
tr|A0A0C3QY96|A0A0C3QY96_9GAMM
tr|A0A1Z9XC69|A0A1Z9XC69_9ALTE
tr|A0A2D7GR50|A0A2D7GR50_ALTSX
tr|A0A1F4GZB8|A0A1F4GZB8_9BURK
tr|A0A2M8RY88|A0A2M8RY88_9PAST
tr|A0A1X3DH74|A0A1X3DH74_9NEIS
tr|A0A1R4IF13|A0A1R4IF13_9VIBR
tr|A0A0H4HWD6|A0A0H4HWD6_HAEDC
sp|A8FVF7|TTCA_SHESH
tr|A0A1B3LJ13|A0A1B3LJ13_9PROT
tr|H0PWW8|H0PWW8_9RHO
tr|A0A2G3K5C5|A0A2G3K5C5_9BURK
tr|ROE3E6|ROE3E6_RALPI
tr|A0A2S0N4V1|A0A2S0N4V1_9BURK
tr|A0A167IKV2|A0A167IKV2_9BURK
tr|N6Y5V6|N6Y5V6_9RHO
tr|A0A151JF95|A0A151JF95_9VIBR
tr|A0A0F4PF88|A0A0F4PF88_9VIBR
tr|A0A2I5T7N7|A0A2I5T7N7_SER53
tr|A0A2M8S5Q1|A0A2M8S5Q1_9PAST
tr|A0A1D9BE07|A0A1D9BE07_9NEIS
tr|A0A0L7T4H2|A0A0L7T4H2_9GAMM
tr|A0A1B7L7X3|A0A1B7L7X3_9ENTR
sp|Q013K3|TTCA_HAES1
tr|A0A257CR00|A0A257CR00_9BURK
tr|W0Q2T6|W0Q2T6_9PAST
tr|A0A1B7UI15|A0A1B7UI15_9GAMM
tr|A0A0N0GL12|A0A0N0GL12_9NEIS
tr|A0A2E3M490|A0A2E3M490_9RICK
tr|A0A011NQM2|A0A011NQM2_9PROT
tr|A0A109RUW1|A0A109RUW1_9BURK
tr|A0A1S8YQ17|A0A1S8YQ17_9ENTR
tr|A0A068Z3J7|A0A068Z3J7_9GAMM
tr|A0A085GT12|A0A085GT12_HAFAL
tr|A0A1X3RLS0|A0A1X3RLS0_9GAMM
tr|A0A2U0SNX6|A0A2U0SNX6_9PAST
tr|A0A1A9AYD0|A0A1A9AYD0_PLESH
tr|A0A2T7SXT3|A0A2T7SXT3_9BURK
tr|I3DD15|I3DD15_HAEPH
tr|A0A2D9KIY0|A0A2D9KIY0_9ALTE
sp|Q65TL6|TTCA_MANSN
tr|A0A2H9TAV4|A0A2H9TAV4_9ZZZZ
tr|A0A1E7ZF70|A0A1E7ZF70_9ALTE
tr|A0A2G8EIK3|A0A2G8EIK3_9GAMM
tr|A0A2G8C3Z3|A0A2G8C3Z3_9GAMM
tr|A0A285J8N9|A0A285J8N9_9GAMM
tr|E0LVH6|E0LVH6_9GAMM
tr|A0A2J9E917|A0A2J9E917_9GAMM
tr|I3DI62|I3DI62_9PAST
tr|A0A0H3DTH0|A0A0H3DTH0_EDWTF
tr|A0A0U5L641|A0A0U5L641_9GAMM

180 190 200 210
MSD...D...GKHI...VIRPLAY...CR...EKDI...QR...FADAK...AF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FSQAK...GF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FSEAR...QY...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FAEAK...GF...PII...P...N...L...CGSQ...
VSD...D...GRHI...VIRPLAY...CK...EKDL...EAYARME...DF...PII...P...N...L...CGSQ...
VSD...N...GEHI...VIRPLAY...VK...EKDL...IKYAE...LK...QF...PII...P...N...L...CGSQ...
HSD...D...GRNT...VIRPLVY...AR...EKDI...AR...YAALR...RF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...AR...FAQAR...QF...PII...P...N...L...CGSQ...
ISD...D...GKQI...LIRPLAY...CK...EKDI...EKYAVAK...AF...PII...P...N...L...CGSQ...
MSD...N...GEHI...VIRPLAY...VP...EKDL...IAYAKLK...EF...PII...P...N...L...CGSQ...
VTD...N...GEHV...VIRPMAY...CR...EKDL...AKYAEHR...EF...PII...P...N...L...CGSQ...
VSD...D...GKNV...VIRPLAY...VK...EKDL...ERWAEHR...AF...PII...P...N...L...CGSQ...
IAD...D...GENV...VIRPLAY...VR...PD...KKYAAAM...QF...PII...P...N...L...CGSQ...
VSD...N...GEHV...VIRPLAY...CK...EKQI...KQYAKLK...QF...PII...P...N...L...CGSQ...
LSD...D...GQHM...VIRPLAY...CA...EKDV...AKYARAM...DF...PII...P...N...L...CGSQ...
STN...R...GEFM...VIRPLAY...CA...EKDI...AA...YARGM...EF...PII...P...D...L...CGSQ...
VSD...D...GRHV...VIRPLAY...VP...EKD...TARWAQHR...QF...PII...P...N...L...CGSQ...
VSD...N...GEHV...VIRPLAY...AR...EKDI...EQYSGSM...NY...PII...P...N...L...CGSQ...
VSD...D...GKHI...VIRPLAY...CR...EKDI...ERYATLR...EF...PII...P...N...L...CGSQ...
VSD...D...GGHI...VIRPLNVA...EKDL...TRWAHR...EF...PII...P...S...L...CGSQ...
VSD...D...GKHV...VIRPLCYVP...EKDT...VRWAQYQ...NF...PII...P...N...L...CGSQ...
VSD...D...GKHV...VIRPLAY...IP...EKDT...RQWAEYQ...QF...PII...P...N...L...CGSQ...
VSD...N...GKHI...VIRPLAY...CR...EKDL...ER...YARLR...AF...PII...P...N...L...CGSQ...
VSD...D...GRHV...VIRPLAY...VA...EKDT...ARWSAHR...DF...PII...P...N...L...CGSQ...
LSD...D...GANV...VIRPMAY...CR...EKDL...EAYANLK...EF...PII...P...N...L...CGSQ...
VTD...N...GEHV...VIRPLAY...CR...EKDL...AR...YAEHR...EF...PII...P...N...L...CGSQ...
ISD...D...RRHI...VIRPLAY...CR...EKDL...IR...YAEQK...AF...PII...P...N...L...CGSQ...
LSD...N...KKHI...VIRPLTYCQ...EKDI...AL...FSKEM...SF...PVT...P...T...L...CGSQ...
ATD...D...GQHI...VIRPLAY...CP...EKDI...AA...YARAM...EF...PII...P...N...L...CGSQ...
VSD...D...GRHM...VIRPLAY...CR...EKDL...ER...YAAIK...AF...PII...P...N...L...CGSQ...
MSD...N...GKHI...VIRPLAY...CR...EKDI...AHYAKIK...EF...PII...P...N...L...CGSQ...
LSD...N...GEFM...VIRPLAHVA...EADL...TRWAEHR...QF...PII...P...T...L...CGSQ...
ATD...D...GQHI...VIRPLAY...CA...EKDI...AS...YARAM...AF...PII...P...N...L...CGSQ...
VSD...N...GEHI...VIRPLAY...VK...EKDL...IKYAE...LK...EF...PII...P...N...L...CGSQ...
LSD...D...GANM...VIRPLAY...CR...EKDI...AEYAKFK...EF...PII...P...N...L...CGSQ...
LSD...D...GKHM...VIRPLAY...CR...EKDL...ER...YAEQR...EF...PII...P...N...L...CGSQ...
VSD...N...GEHV...VIRPLAFCK...EALL...IQYAE...LK...QF...PII...P...N...L...CDSQ...
VSD...N...GEHI...VIRPLAY...CT...EKDI...EKYSQAA...EF...PII...P...N...L...CGSQ...
LSD...N...GEHI...IIRPLAY...VK...EKDL...IR...YAQML...EF...PII...P...N...L...CGSQ...
LSD...N...GEHI...IIRPLAY...VK...EKDL...IR...FAQTQ...NF...PII...P...N...L...CGSQ...
LSD...N...GKHV...VIRPLAY...CR...EKDI...ER...YAGLR...EF...PII...P...N...L...CGSQ...
VSD...D...GKHM...VIRPLAY...CR...EKDL...ER...YATLR...EF...PII...P...N...L...CGSQ...
VSD...D...GKNT...VIRPLAY...AR...EKDI...EAYAE...LK...GF...PII...P...N...L...CGSQ...
ISD...N...GEHI...VIRPLAY...CK...EKDI...EKYQAR...QF...PII...P...N...L...CGSQ...
MSD...D...GKHV...VIRPLAY...CR...EKDI...ER...FAVIR...EY...PII...P...N...L...CGSQ...
VSD...N...GKHV...IIRPLAY...TR...EKDI...VKYSDHM...DF...PII...P...N...L...CGSQ...
LSD...D...GANM...VIRPLAY...AR...EKDI...AEYAE...LK...GF...PII...P...N...L...CGSQ...
TAD...D...GENV...VIRPLAY...CR...EQDI...EKYAGKM...GF...PII...P...N...L...CGSQ...
TSD...D...GENV...VIRPLAY...CA...EQDI...ADYSILS...GF...PII...P...N...L...CGSQ...
VSD...D...GKNI...VIRPMAY...VT...EKDL...TRWAQVQ...DF...PII...P...T...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FAIAR...GY...PII...P...N...L...CGSQ...
ISD...D...GKQI...VIRPLAY...CK...EKDI...EKYAVAK...QF...PII...P...N...L...CGSQ...
LSD...D...GANV...VIRPLAY...SR...EKDI...AEYAE...LK...AF...PII...P...N...L...CGSQ...
VSD...N...GEHI...VIRPLAY...CT...ESDI...QYESTLS...DF...PII...P...N...L...CGSQ...
VSD...N...GEHI...VIRPLAY...CT...ENDI...KVYSEAS...DF...PII...P...N...L...CGSQ...
VSD...D...GRHV...VIRPLAFVS...EKDT...TRWAAQR...NF...PII...P...N...L...CGSQ...
MSD...D...GKQI...VIRPLAY...CK...EKDI...EKYAAAK...EF...PII...P...N...L...CGSQ...
VSD...N...GEHI...VIRPLAY...VK...EKDL...QR...YAE...LK...QF...PII...P...N...L...CGSQ...
VSD...N...GEHV...VIRPLAY...CR...EKDI...IKFSAMR...EY...PII...P...N...L...CGSQ...
ISD...D...AKHI...VIRPLAY...CK...EKDI...EKYAEAK...QF...PII...P...N...L...CGSQ...
LSD...D...GANM...VIRPLAY...SR...EKDI...AEYAE...LK...AF...PII...P...N...L...CGSQ...
VSD...D...GRHI...VIRPLAY...CT...ERDI...ERFARVM...AY...PII...P...N...L...CGSQ...
VSD...N...GEHV...VIRPLAY...CT...ENDI...ARFARTM...EF...PII...P...N...L...CGSQ...
VSD...D...GKHM...VIRPLAY...CR...EKDI...ER...YAGMR...QF...PII...P...T...L...CGSQ...
ATD...N...GDHI...VIRPLAY...CA...EKDI...AS...YARAM...EF...PII...P...N...L...CGSQ...
VSD...D...GKHV...VIRPLAFVT...EKDT...ARWAAQR...NF...PII...P...N...L...CGSQ...
VSD...D...GKNV...VIRPMAY...VA...EKDL...SRWAEIR...EY...PII...P...T...L...CGSQ...
VSD...D...GNHV...VIRPLAY...CT...EADI...ARFARM...DF...PII...P...N...L...CGSQ...
VSD...N...GEHV...VIRPLAY...CR...EKDI...IKYADMV...GY...PII...P...N...L...CGSQ...
VSD...N...GEHV...VIRPLAY...CR...EKDI...IKFSDMR...SY...PII...P...N...L...CGSQ...
MSD...D...GKHV...VIRPLAY...CR...EKDI...ER...FADAR...QF...PII...P...N...L...CGSQ...
LSD...D...GKQI...VIRPLAY...CK...EKDI...EKYSIAK...EF...PII...P...N...L...CGSQ...
VSD...D...GKHV...VIRPLAY...CR...EKDI...VRYSEAK...GF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FAIAR...EY...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FSTAK...AF...PII...P...N...L...CGSQ...
ISD...D...GKQI...VIRPLAY...CK...EKDI...EKYAVAK...QF...PII...P...N...L...CGSQ...
TSD...N...GEFV...VIRPLAY...VA...EKDL...IRWAAHR...EF...PII...P...S...L...CGSQ...
ISD...D...GKQI...VIRPLAY...CK...EKDI...IKYAEAK...QF...PII...P...N...L...CGSQ...
QSD...N...GEHI...VIRPLAY...CR...EKDI...EKYSTAK...GF...PII...P...N...L...CGSQ...
VSD...D...GRHV...VIRPLAY...CR...EKDI...IKYSEAR...GF...PII...P...N...L...CGSQ...
VSD...N...GEHI...VIRPLAY...CT...EKDI...QRYS...DAV...EF...PII...P...N...L...CGSQ...
VTD...D...GAHV...VIRPLSYCA...EADI...ARFARM...AY...PII...P...N...L...CGAQ...
VSD...N...GKHV...VIRPLAY...CK...EKDI...VRYAEAR...EF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FATAR...QF...PII...P...N...L...CGSQ...
MSD...D...GKHV...VIRPLAY...CR...EKDI...ER...FAIAK...AF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FAEAR...AF...PII...P...N...L...CGSQ...
MSD...D...GKHV...VIRPLAY...CR...EKDI...ER...FAEAK...HF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CK...EKDI...EKYAMAK...AF...PII...P...N...L...CGSQ...
VSD...D...GKHV...VIRPLAY...CR...EKDI...ER...FAEIR...EF...PII...P...N...L...CGSQ...
VSD...N...GEFM...VIRPLAY...VA...EKDL...IRWAAHR...QF...PII...P...T...L...CGSQ...
ISD...D...GKQI...VIRPLAY...CK...EKDI...EKYAEAK...QF...PII...P...N...L...CGSQ...
VSD...D...GKHV...VIRPLAY...CN...EKDI...EKYAAV...EF...PII...P...N...L...CGSQ...
VSD...D...GKQI...VIRPLAY...CK...EKDI...EKYAVAK...QF...PII...P...N...L...CGSQ...
VSD...D...GQHM...VIRPLAY...CR...EKDI...ALYAKLM...DF...PII...P...N...L...CGSQ...
VSD...N...GEHI...VIRPLAY...CS...EKDI...QKYS...DA...SF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...ER...FATAR...QF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...IRFSEAK...QF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...IRF...AEAR...QY...PII...P...N...L...CGSQ...
MSD...D...GKQI...VIRPLAY...CR...EKDI...IRFSDAR...QF...PII...P...N...L...CGSQ...
MSD...D...GKHI...VIRPLAY...CR...EKDI...VRSEAR...KF...PII...P...N...L...CGSQ...
ISD...D...GKQV...VIRPLAY...CK...EKDI...EKYAIK...QF...PII...P...N...L...CGSQ...
MSD...D...GQHI...VIRPLAY...CR...EKDI...ER...FAAAK...AF...PII...P...N...L...CGSQ...
MSD...D...GKQI...VIRPLAY...CR...EKDI...IRF...AEAR...QF...PII...P...N...L...CGSQ...

tr|A0A2N5EAD2|A0A2N5EAD2_9GAMM
tr|A0A1X1MR97|A0A1X1MR97_9VIBR
tr|A0A0U4V2L4|A0A0U4V2L4_9GAMM
tr|D2TAQ3|D2TAQ3_ERWP6
tr|A0A1H7QGZ9|A0A1H7QGZ9_9GAMM
tr|A0A1V3ITW9|A0A1V3ITW9_9PAST
tr|A0A1E5BFJ6|A0A1E5BFJ6_9VIBR
tr|A0A1J5KWL8|A0A1J5KWL8_9VIBR
tr|A0A2S0UY9|A0A2S0UY9_9GAMM
tr|A0A2T3I6F0|A0A2T3I6F0_9GAMM
tr|A0A1V3I034|A0A1V3I034_9GAMM
sp|A1SWS4|TTCA_PSYIN
tr|A0A066RUR5|A0A066RUR5_9GAMM
tr|A0A090IGU5|A0A090IGU5_9GAMM
tr|A0A2N1A2J9|A0A2N1A2J9_9GAMM
tr|MAU6L5|MAU6L5_9GAMM
tr|A0A2T4IDK9|A0A2T4IDK9_9RHO
tr|A0A290ZQX4|A0A290ZQX4_9RHO
sp|A1K2P7|TTCA_AZOSB
tr|A0A1E5C9L7|A0A1E5C9L7_9GAMM
tr|D0IAC9|D0IAC9_GRIHO
tr|A0A2X1V8W5|A0A2X1V8W5_MORMO
tr|V5FDB5|V5FDB5_9VIBR
tr|A0A2N7DID8|A0A2N7DID8_9VIBR
tr|A0A1Z9YRK8|A0A1Z9YRK8_9ALTE
tr|A0A1H3QM02|A0A1H3QM02_9PROT
tr|A0A1H7TXE2|A0A1H7TXE2_9PAST
tr|COB433|COB433_9GAMM
tr|A0A1V3K8E7|A0A1V3K8E7_9PAST
tr|A0A0M0M226|A0A0M0M226_9GAMM
tr|A0A0G3CN87|A0A0G3CN87_9GAMM
tr|A0A085HJV6|A0A085HJV6_9GAMM
tr|S9ZRS6|S9ZRS6_9RHO
tr|A0A1Y0CWR3|A0A1Y0CWR3_9GAMM
sp|Q7N3Y7|TTCA_PHOLL
tr|A0A2S7JNG9|A0A2S7JNG9_9BURK
tr|A0A2M6V2D8|A0A2M6V2D8_9BURK
tr|A0A2G1BBN6|A0A2G1BBN6_9GAMM
tr|A0A1D2U9X7|A0A1D2U9X7_9BURK
tr|A0A081NFN6|A0A081NFN6_9GAMM
tr|A0A235CJ05|A0A235CJ05_9GAMM
tr|A0A2S0IK97|A0A2S0IK97_9GAMM
tr|A0A1G7NVH8|A0A1G7NVH8_9GAMM
tr|A0A2S0R041|A0A2S0R041_9RHO
tr|K8X231|K8X231_9GAMM
tr|L8D9A5|L8D9A5_9GAMM
tr|A0A0N0Z7B8|A0A0N0Z7B8_9GAMM
tr|A0A136A1P4|A0A136A1P4_9ALTE
tr|A0A2L0PJ66|A0A2L0PJ66_VITS1
tr|A0A2D5T2E5|A0A2D5T2E5_PSEAS
tr|A0A1C3K517|A0A1C3K517_9BURK
tr|A0A2T5IVY9|A0A2T5IVY9_9PROT
tr|A0A080LSU8|A0A080LSU8_9PROT
tr|D5BYI6|D5BYI6_NITHN
tr|A0A1H9YRA9|A0A1H9YRA9_THASX
tr|A0A0A7RYE8|A0A0A7RYE8_9GAMM
sp|Q5QZ01|TTCA_IDILO
tr|A0A2N0WME8|A0A2N0WME8_9GAMM
tr|A0A263HFI4|A0A263HFI4_9PAST
tr|A0A2R5EA30|A0A2R5EA30_9RHO
tr|A0A1J5QX57|A0A1J5QX57_9ZZZZ
tr|A0A1A9NK07|A0A1A9NK07_9PROT
tr|A0A1J5N3D9|A0A1J5N3D9_9GAMM
tr|A0A2C9XW01|A0A2C9XW01_9GAMM
tr|A0A1B9JZL1|A0A1B9JZL1_9GAMM
tr|A0A0Q7XMZ3|A0A0Q7XMZ3_9BURK
tr|A0A1A8XDZ4|A0A1A8XDZ4_9PROT
tr|A0A1G7V576|A0A1G7V576_9RHO
tr|A0A011PPX3|A0A011PPX3_9PROT
tr|C7RJR3|C7RJR3_ACCPU
tr|A0A1R1IDI8|A0A1R1IDI8_9RHO
tr|A0A2N2V785|A0A2N2V785_9PROT
tr|K2F263|K2F263_9ZZZZ
tr|A0A2N2RIX8|A0A2N2RIX8_9PROT
tr|A0A2X0VAX3|A0A2X0VAX3_9GAMM
tr|E8LKN7|E8LKN7_SUCHY
tr|A0A151QE56|A0A151QE56_9BURK
tr|R5EJY6|R5EJY6_9GAMM
tr|A0A1T4UZE7|A0A1T4UZE7_9GAMM
tr|A0A1Y0D130|A0A1Y0D130_9GAMM
tr|A0A2X0SHK5|A0A2X0SHK5_9PROT
tr|A0A258ZH96|A0A258ZH96_9PROT
tr|A0A126ZC97|A0A126ZC97_9BURK
tr|A0A2V8QMU4|A0A2V8QMU4_9BACT
tr|A0A2E0ZWB7|A0A2E0ZWB7_9GAMM
tr|A0A2G6I698|A0A2G6I698_SORCE
tr|A0A2N2QBG9|A0A2N2QBG9_9PROT
tr|A0A069AXH0|A0A069AXH0_BURPE
tr|I9BZE8|I9BZE8_9RALS
tr|A0A1F4HJD3|A0A1F4HJD3_9BURK
sp|B1Y629|TTCA_LEPCP
tr|J2WAQ6|J2WAQ6_9BURK
tr|G8M9T7|G8M9T7_9BURK
tr|A0A0E3U9G9|A0A0E3U9G9_9BURK
tr|A0A2N0HW99|A0A2N0HW99_9BURK
tr|A0A158GN4|A0A158GN4_9BURK
tr|A0A1H7ISU8|A0A1H7ISU8_9BURK
tr|A0A257CJ84|A0A257CJ84_9BURK
tr|A0A1E4PQ02|A0A1E4PQ02_9BURK
tr|A0A0N0JTX0|A0A0N0JTX0_9PROT
sp|A4G9W3|TTCA_HERAR
tr|A0A0Q6W856|A0A0Q6W856_9BURK
tr|A0A0U2W252|A0A0U2W252_9BURK

MSD..D..GKHV|VIRPLAY|CR|EKDI|ER|FSEAR..GF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|IKY|ADLK..QY|PII|PC|.N...|L|CGSQ
ISD..N..GEHI|VIRPLAY|CR|EKDI|EKY|ATAR..EF|PII|PC|.N...|L|CGSQ
MSD..D..GQHI|VIRPLAY|CR|EKDI|QR|FAIAR..QY|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAF|CKE|EL|LQY|AQLK..QF|PII|PC|.N...|L|CGTQ
ISD..D..GKHI|VIRPLAY|CKE|E|EKY|ALAK..GF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|IKY|SMC..DY|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|IKY|SNQC..DY|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAF|CKE|EL|QY|AALK..QF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|ER|FAELK..EF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|ER|YSEK..AF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CKE|E|EAY|AKLK..EY|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|ER|YSEMK..AF|PII|PC|.N...|L|CGSQ
ISD..D..KRNI|VIRPLAY|CR|EAD|IKY|SAFK..AF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CKE|EKDI|ERY|AILK..NY|PII|PC|.N...|L|CGTQ
VSD..N..GEHV|IIRPLAY|CKE|E|EAY|ARLK..KY|PII|PC|.N...|L|CGSQ
VSD..D..GQHV|VIRPLAY|CTEN|DI|AR|FARM..EY|PII|PC|.N...|L|CGSQ
VSD..D..GRHV|VIRPLAY|CAEN|DI|AR|FARM..EY|PII|PC|.N...|L|CGSQ
VSD..D..GQHV|VIRPLAY|CTEN|DI|ER|FARGM..DF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|ERY|AQTA..EF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|ERY|AEAA..AF|PII|PC|.N...|L|CGSQ
MSD..D..GKHV|VIRPLAY|CR|EKDI|ER|FAEAK..GF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|IK|FADMR..DY|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|CR|EKDI|IKY|SSMC..DY|PII|PC|.N...|L|CGSQ
VSD..D..GKHV|VIRPLAY|CTER|DI|EKY|ATTV..EF|PII|PC|.N...|L|CGSQ
VSD..D..GHHI|VIRPLAY|CKE|DL|AA|YAEIE..NF|PII|PC|.N...|L|CGSQ
MSD..D..GKQI|VIRPLAY|CKE|EKDI|IKY|SDAK..QF|PII|PC|.N...|L|CGSQ
MSD..D..GKQI|VIRPLAY|AR|EKDI|ER|FAQAK..QF|PII|PC|.N...|L|CGSQ
ISD..D..AQHI|VIRPLAY|CR|EKDI|EKY|AQAK..DF|PII|PC|.N...|L|CGSQ
ISD..N..GEHI|VIRPLAY|CR|EKDI|EKY|SVAR..QF|PII|PC|.N...|L|CGSQ
MSD..D..GKHI|VIRPLAY|CR|EKDI|ERY|AEAK..AF|PII|PC|.N...|L|CGSQ
ISD..D..GKHI|VIRPLAY|CR|EKDI|ERY|ADAK..AF|PII|PC|.N...|L|CGSQ
VSD..D..GKHV|VIRPLAY|CTEAD|I|TR|FACTM..AF|PII|PC|.N...|L|CGSQ
VSD..N..GQHV|VIRPLAY|CKE|EKDI|IE|FAHAK..AF|PII|PC|.N...|L|CGSQ
MSD..D..GKHI|VIRPLAY|CR|EKDI|ERY|ATAK..AF|PII|PC|.N...|L|CGSQ
VSD..G..GDHM|VIRPLAY|VAEK|DL|ER|WSKVVR..QF|PII|PC|.T...|L|CGSQ
VSD..G..GDHM|VIRPMAY|VSEK|DL|VR|WAAHR..EF|PII|PC|.T...|L|CGSQ
MSD..N..GEHM|VIRPLAY|CKEAD|IEQY|AIHQ..AY|PII|PC|.N...|L|CGSQ
VSD..D..GRHV|VIRPLCY|VT|EKDI|MR|WAQVR..EF|PII|PC|.N...|L|CGSQ
VSD..D..GQHT|VIRPLAF|CR|EKDI|VR|FSESK..AF|PII|PC|.N...|L|CGSQ
VSD..D..GKHV|VIRPLAY|AK|EKDL|VQ|FAEAR..EF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAF|CR|EKDI|AR|YAEAM..AF|PII|PC|.N...|L|CGSQ
ASD..N..GEHI|VIRPLAY|NKEKDI|EQY|SQAM..EF|PII|PC|.N...|L|CGSQ
VSD..D..GQHV|VIRPLAY|CAHDI|ER|FARM..AY|PII|PC|.N...|L|CGSQ
MSD..D..GKHI|VIRPLAY|CR|EKDI|ERY|SEAK..EF|PII|PC|.N...|L|CGSQ
MSD..D..GKHI|VIRPLAY|VKEAD|IEKY|STAQ..NF|PII|PC|.N...|L|CGSQ
MSD..D..GQHM|VIRPLAY|CR|EKDI|ER|FAQAK..AF|PII|PC|.N...|L|CGSQ
VSD..D..GQHI|VIRPLAY|CS|EKDI|SQY|SAVM..EF|PII|PC|.N...|L|CGSQ
VSD..N..GEHI|VIRPLAY|VKEKDL|VR|FAQIR..EF|PII|PC|.N...|L|CGSQ
MSD..D..GQHM|VIRPLAY|CKEAD|IEQY|ATAQ..AF|PII|PC|.N...|L|CGSQ
ATD..D..GAHV|VIRPLAY|CS|ESDI|AR|YAADM..AY|PII|PC|.N...|L|CGSQ
VSD..N..GKHI|VIRPLAY|CKE|DL|AA|YAEIS..DF|PII|PC|.N...|L|CGSQ
VTD..D..GVHV|VIRPLAY|CGEAD|IAR|FARGM..DY|PII|PC|.N...|L|CGSQ
LSD..D..GKHV|VIRPLAY|CR|EKDI|EVY|AKIK..AF|PII|PC|.N...|L|CGSQ
VTD..D..GKHI|VIRPLAY|CR|EKDI|AKY|AAGK..NY|PII|PC|.N...|L|CGSQ
MND..T..GEHI|VIRPLAY|CKE|DI|AKY|AEFK..QF|PII|PC|.N...|L|CGSQ
ASD..N..GEHV|VIRPLAY|AR|EKDI|EQY|SAAM..EF|PII|PC|.N...|L|CGSQ
GSD..N..GEHI|IIRPLAY|CV|ESDI|AKF|AQLK..QF|PII|PC|.N...|L|CGSQ
MSD..D..GKHI|VIRPLA|CR|EKDI|EKY|AAAK..QF|PII|PC|.N...|L|CGSQ
VTD..D..GAHV|VIRPLAY|CA|ESDI|AR|YSRGM..EF|PII|PC|.N...|L|CGSQ
ATD..Q..GEFV|VIRPLAY|CAEK|DI|AS|YARGM..EF|PII|PC|.D...|L|CGSQ
ATD..K..GEFV|VIRPLAY|CAEK|DI|AA|YARGM..EF|PII|PC|.D...|L|CGSQ
GSD..D..GKHI|IIRPLAY|CV|ESDI|SE|FATLK..EF|PII|PC|.N...|L|CGSQ
MND..S..GEHI|IIRPLAY|CKE|DI|AKY|AEIK..QF|PII|PC|.N...|L|CGSQ
MND..S..GEHI|IIRPLAY|CKE|DI|TKY|AEFK..QF|PII|PC|.N...|L|CGSQ
LAD..D..GENI|VIRPLAY|CR|EAD|IKY|YAAAM..GF|PII|PC|.N...|L|CGSQ
VTD..D..GSHV|VIRPLAY|CS|ESDI|AR|FARGM..AY|PII|PC|.N...|L|CGSQ
LTD..D..GAHV|VIRPLAY|CS|HDI|AR|YARGM..AF|PII|PC|.N...|L|CGSQ
LTD..D..GAHV|VIRPLAY|CS|EKDI|AR|FARGM..AY|PII|PC|.N...|L|CGSQ
RTD..D..GCHV|VIRPLAY|CR|ESDI|AR|FARGM..EY|PII|PC|.N...|L|CGSQ
VTD..D..KAHV|VIRPLAY|CS|EAD|IAR|FARGM..DF|PII|PC|.N...|L|CGSQ
VTD..D..GAHV|VIRPLAY|CP|ESDI|AKF|FARGM..EF|PII|PC|.N...|L|CGSQ
VTD..D..KAHV|VIRPLAY|CA|ESDI|AKF|FARGM..AF|PII|PC|.N...|L|CGSQ
VTD..D..KAHV|VIRPLAY|CA|EAD|IAK|FARGM..EF|PII|PC|.N...|L|CGSQ
RTD..D..DTLT|VIRPLAY|CKE|DL|ITL|SKLK..EY|PVLPK|.G...|L|CGY
RTD..D..DTLT|LIRPLAY|CR|ERDL|NIL|SKLK..DY|PVLPK|.G...|L|CGY
VSD..N..GDLT|VIRPLAY|CR|ERDL|AR|YAEER..NF|PII|PC|.N...|L|CGSQ
RND..K..DDLT|VIRPLIY|CR|EKDI|VSI|SKIK..EY|PVLPK|.G...|L|CGW
RND..K..DDLT|VIRPLIY|CR|ERDL|IAL|SKLK..EY|PVLPK|.G...|L|CGW
VSD..N..GQHV|VIRPLAY|CKE|DI|IAF|AKAK..EF|PII|PC|.N...|L|CGSQ
VTD..K..GEHI|VIRPLAY|CAEK|DI|AY|FARM..KF|PII|PC|.N...|L|CGSQ
VTD..K..GDHV|VIRPLAY|CAEK|DI|AS|FARM..EF|PII|PC|.N...|L|CGSQ
KSD..D..GRNV|VIRPLAY|CKE|DI|KR|HANAK..MY|PII|PC|.T...|L|CGSQ
RSN..D..GRNI|VIRPLSY|CW|ERDI|SEY|AAQRM..EF|PII|PC|.D...|L|CGSQ
LSD..D..KRNI|VIRPLSY|CKE|LE|DR|YAKLM..NF|PII|PC|.D...|L|CGSQ
VSD..D..GKHV|VIRPLIY|CAEDV|IQS|FSLAC..KF|PVLPK|.G...|L|CGTQ
VSD..N..GEFM|VIRPLAY|VP|EKDL|IR|WAEVR..QF|PII|PC|.T...|L|CGSQ
QSD..D..GKNI|VIRPLAY|AKET|DL|EKY|AELR..EF|PII|PC|.N...|L|CGSQ
QSD..D..GRNV|VIRPLAY|VR|ERDL|ER|YAEVK..GF|PII|PC|.N...|L|CGSQ
VSD..D..GRHT|VIRPLAY|VA|HDL|GT|WAAHR..QF|PII|PC|.T...|L|CGSQ
VSD..D..GRHT|VIRPLAY|VA|ETDL|ER|WAEHR..AF|PII|PC|.T...|L|CGTQ
QSD..D..GRQI|VIRPLAY|VKE|DL|IRY|AEIK..QF|PII|PC|.D...|L|CGSQ
QSD..D..GKNV|VIRPLAY|VKE|DL|EKY|AELR..EF|PII|PC|.N...|L|CGSQ
QSD..D..GKNV|VIRPLAY|VR|EPDL|ER|YAEYK..QF|PII|PC|.T...|L|CGSQ
QSD..D..GKHI|VIRPMAY|VKEED|TQR|YAEYK..GF|PII|PC|.D...|L|CGSQ
QSD..D..GKNI|VIRPLAY|VKE|DL|EKY|AELR..EF|PII|PC|.N...|L|CGSQ
VSD..D..GKNV|VIRPLAY|VR|ESDL|QRW|AEHR..EF|PII|PC|.N...|L|CGSQ
VSD..N..GEHV|VIRPLAY|VA|ETDL|EKW|AVHR..EF|PII|PC|.S...|L|CGSQ
VSD..D..GRNV|VIRPLAY|VT|ETDL|ER|WAGHR..QF|PII|PC|.T...|L|CGSQ
VSD..D..GRNI|VIRPLAY|VA|ESDL|IRN|AEIK..QY|PII|PC|.N...|L|CGSQ
QSD..D..GKHI|VIRPLAY|VKEAD|T|RYAQ|IK..NF|PII|PC|.D...|L|CGSQ
VSD..D..GKNV|VIRPLAY|VKEPDL|VRW|AEHR..EF|PII|PC|.N...|L|CGSQ
VSD..T..GQHV|VIRPLAY|VA|EPDL|VRW|AEHR..EF|PII|PC|.N...|L|CGSQ

tr|A0A257D8X1|A0A257D8X1_9BURK
tr|A0A2S5T0L8|A0A2S5T0L8_9BURK
tr|A0A0G3EQ23|A0A0G3EQ23_9BURK
tr|A0A2N2TCB9|A0A2N2TCB9_9PROT
tr|A0A0Q4NX11|A0A0Q4NX11_9BURK
tr|IOHLE1|IOHLE1_RUBGI
tr|A0A0C2BG76|A0A0C2BG76_9BURK
tr|A0A085FQK3|A0A085FQK3_9BURK
tr|A0A0R0MBG2|A0A0R0MBG2_9BURK
tr|A0A2P5K8F8|A0A2P5K8F8_9BURK
tr|A0A0Q6LK70|A0A0Q6LK70_9BURK
tr|A0A1Y2Q832|A0A1Y2Q832_9BURK
tr|A0A0L6TAQ8|A0A0L6TAQ8_9BURK
tr|A0A2U1DUA6|A0A2U1DUA6_9BURK
tr|A0A1Y0ES54|A0A1Y0ES54_9BURK
tr|A0A060NJ81|A0A060NJ81_9BURK
tr|A0A2M8EE54|A0A2M8EE54_9BURK
tr|A0A221KEA4|A0A221KEA4_VITFI
tr|A0A1S8FRQ0|A0A1S8FRQ0_9BURK
tr|A0A0Q4GYK6|A0A0Q4GYK6_9BURK
tr|A0A016XGF4|A0A016XGF4_9BURK
tr|A0A2W5QR70|A0A2W5QR70_VARPD
tr|A0A258NZQ2|A0A258NZQ2_9BURK
tr|A0A2R4F9B5|A0A2R4F9B5_9BURK
tr|A0A1Q3R2G4|A0A1Q3R2G4_9BURK
tr|A0A0Q8T160|A0A0Q8T160_9BURK
tr|A0A2N2RMC2|A0A2N2RMC2_9PROT
tr|A0A2S5SVE7|A0A2S5SVE7_9BURK
tr|A0A1H9S6W8|A0A1H9S6W8_9BURK
tr|A0A1Q8YGB2|A0A1Q8YGB2_9BURK
tr|A0A0K1NE84|A0A0K1NE84_9BURK
tr|A0A2E2K941|A0A2E2K941_9GAMM
tr|S6HH18|S6HH18_9GAMM
tr|S6GEA2|S6GEA2_9GAMM
tr|A0A2G6L769|A0A2G6L769_9GAMM
tr|A0A1Y5D7E5|A0A1Y5D7E5_9GAMM
tr|A0A162JZM0|A0A162JZM0_9GAMM
tr|I2JK26|I2JK26_9GAMM
tr|A0A1T4LA54|A0A1T4LA54_9GAMM
tr|A0A2P6AQM6|A0A2P6AQM6_9GAMM
tr|A0A2D6C0C1|A0A2D6C0C1_9PROT
tr|A0A2E6MC67|A0A2E6MC67_9GAMM
tr|A0A0Q9YQ77|A0A0Q9YQ77_9COXI
tr|R4YM77|R4YM77_9GAMM
tr|A0A2D8IV68|A0A2D8IV68_9GAMM
tr|A0A0M3BW87|A0A0M3BW87_ACIP1
tr|A0A2A5GDH7|A0A2A5GDH7_9GAMM
tr|A0A2R4IZ02|A0A2R4IZ02_9GAMM
tr|Q1N675|Q1N675_9GAMM
tr|A0A2V1MRG8|A0A2V1MRG8_9GAMM
tr|A0A2G6JPB4|A0A2G6JPB4_NEPCE
tr|A0A1D8RZY8|A0A1D8RZY8_9GAMM
tr|A0A2S6H7K9|A0A2S6H7K9_9GAMM
tr|A0A1Y6EYI4|A0A1Y6EYI4_9GAMM
tr|A0A1G9S8A4|A0A1G9S8A4_9BURK
tr|A0A2T5IWQ3|A0A2T5IWQ3_9LACT
tr|A0A0Q6BL24|A0A0Q6BL24_9PROT
tr|A0A1M4ZGN9|A0A1M4ZGN9_9GAMM
tr|A0A1G6A7Y4|A0A1G6A7Y4_9GAMM
tr|A0A1H2UJU7|A0A1H2UJU7_9ALTE
tr|A0A255QCR2|A0A255QCR2_9BURK
tr|A0A1I7GPK9|A0A1I7GPK9_9BURK
tr|A0A2E3CTL6|A0A2E3CTL6_9GAMM
tr|A0A2G2GZK4|A0A2G2GZK4_9GAMM
tr|D4ZKD3|D4ZKD3_SHEVD
tr|A0A2E4Z906|A0A2E4Z906_9GAMM
tr|A0A2E2XIK0|A0A2E2XIK0_9GAMM
tr|A0A160N2I8|A0A160N2I8_9GAMM
tr|A0A1E4L069|A0A1E4L069_9GAMM
tr|A0A2T4D6Z5|A0A2T4D6Z5_9GAMM
tr|A0A085U7Q6|A0A085U7Q6_YERRU
sp|Q47ZU5|TTCA_COLP3
tr|A0A1I0AQ21|A0A1I0AQ21_9PROT
tr|A0A1H4G6R6|A0A1H4G6R6_9BURK
tr|A0A2K9LR78|A0A2K9LR78_9GAMM
tr|A0A2M7LUW5|A0A2M7LUW5_9GAMM
tr|A0A246KYX3|A0A246KYX3_9GAMM
tr|A0A2D8RAF4|A0A2D8RAF4_9GAMM
tr|A0A0R0DYI3|A0A0R0DYI3_9GAMM
tr|A0A0R0ATI2|A0A0R0ATI2_STEMA
tr|A0A2E6LUI9|A0A2E6LUI9_9GAMM
tr|A0A094LT70|A0A094LT70_9GAMM
tr|A0A1I6YH43|A0A1I6YH43_9GAMM
tr|W7R3R4|W7R3R4_9ALTE
sp|ASH4Q7|TTCA_SHEPA
tr|A0A2W4XNW8|A0A2W4XNW8_9CYAN
tr|A0A0W1SMG6|A0A0W1SMG6_9GAMM
tr|A0A2C9ERR4|A0A2C9ERR4_PSEPH
tr|A0A0J6I3B3|A0A0J6I3B3_9PSED
tr|A0A0F9MHE3|A0A0F9MHE3_ZZZZ
tr|W6M5Z2|W6M5Z2_9GAMM
tr|A0A2N7DVF7|A0A2N7DVF7_9GAMM
tr|A0A0R0CDH7|A0A0R0CDH7_9GAMM
tr|A0A2A6ASR9|A0A2A6ASR9_9ALTE
tr|E1ST69|E1ST69_FERBD
tr|A0A1X7AIN8|A0A1X7AIN8_9GAMM
tr|A0A2S7XCU8|A0A2S7XCU8_9GAMM
tr|A0A0Q7Q6A4|A0A0Q7Q6A4_9GAMM
tr|A0A2W5DV11|A0A2W5DV11_9BURK
tr|A0Z1R6|A0Z1R6_9GAMM
tr|A0A269PKF3|A0A269PKF3_9GAMM
sp|Q21IJ4|TTCA_SACD2
tr|A0A1I1P8I7|A0A1I1P8I7_9GAMM

VS|D|.D|.D|.GKNI|VIRPLAY|VA|ETD|L|E|W|A|E|H|R|.QF|PII|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GRHV|VIRPLAY|VN|E|D|L|E|W|A|E|F|R|.QF|PII|P|C|.S|.L|CGSQ
QS|D|.D|.D|.GRHI|VIRPLAY|VK|E|R|D|L|E|H|Y|A|E|F|K|.AF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GQHV|VIRPMAY|VA|E|K|D|L|A|R|W|A|E|L|R|.QF|PII|P|C|.T|.L|CGSQ
MS|D|.D|.D|.GKHM|VIRPLAY|VK|E|E|T|E|R|Y|A|E|V|K|.GF|PII|P|C|.D|.L|CGSQ
VS|D|.D|.D|.GRHV|VIRPLAY|VA|E|D|L|E|R|W|A|E|H|R|.AF|PII|P|C|.S|.L|CGNQ
QS|D|.D|.D|.GKHM|VIRPLAY|VK|E|A|D|M|E|R|Y|A|E|V|K|.QF|PII|P|C|.D|.L|CGSQ
VS|D|.D|.D|.GKHM|VIRPLAY|VK|E|A|D|M|E|R|Y|A|E|V|K|.GF|PII|P|C|.D|.L|CGSQ
TS|D|.N|.D|.GEFI|VIRPMAY|VV|E|K|D|L|I|R|W|A|E|H|K|.AF|PII|P|C|.T|.L|CGSQ
QS|D|.D|.D|.GKHI|VIRPLAY|VK|E|N|D|L|E|K|Y|A|Q|L|R|.EF|PII|P|C|.N|.L|CGSQ
IS|D|.D|.D|.GKNI|VIRPLAY|VA|E|T|D|L|E|R|W|A|A|H|R|.QF|PII|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GRHV|VIRPMAY|VA|E|K|D|L|I|R|W|A|E|I|R|.QF|PII|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GRHI|VIRPLAY|VA|E|A|D|L|E|R|W|A|R|H|R|.QF|PII|P|C|.T|.L|CGNQ
QS|D|.R|.D|.GDHL|IIRPLAY|VA|E|D|D|L|T|R|W|A|E|I|R|.NF|PII|P|C|.T|.L|CGSQ
NS|D|.N|.D|.GEFI|VIRPMAY|VY|E|R|D|L|V|R|W|A|E|H|R|.EF|PII|P|C|.T|.L|CGSQ
VS|D|.N|.D|.GEFM|VIRPLAY|VA|E|P|D|L|I|R|W|A|E|V|R|.QF|PLI|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GGHI|VIRPLAY|VA|E|K|D|L|T|A|W|A|A|H|R|.QF|PII|P|C|.S|.L|CGSQ
VS|D|.N|.D|.GEFV|VIRPLAY|VA|E|P|D|L|E|K|W|A|A|H|R|.EF|PII|P|C|.S|.L|CGSQ
VS|D|.D|.D|.GRHV|VIRPLAF|VA|E|K|D|A|Q|R|W|S|Q|H|R|.DF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GKHI|VIRPLAY|VA|E|K|D|L|V|R|W|A|A|H|R|.QF|PLI|P|C|.T|.L|CGSQ
VS|D|.N|.D|.GEFI|VIRPLAY|VA|E|K|D|L|I|R|W|A|A|H|R|.QY|PII|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GRHV|VIRPLAY|VP|E|K|D|L|V|R|W|A|Q|H|R|.QF|PII|P|C|.T|.L|CGSQ
VS|D|.T|.D|.GKHV|VIRPMAY|VP|E|K|D|L|I|K|W|A|Q|V|R|.DF|PII|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GRHV|VIRPLAY|VT|E|K|D|T|R|W|A|Q|Q|Q|.QF|PII|P|C|.N|.L|CGSQ
TS|D|.N|.D|.GEFI|VIRPLAY|VA|E|S|D|L|V|R|W|A|E|H|R|.QF|PII|P|C|.N|.L|CGSQ
QS|D|.R|.D|.GDHV|IIRPLAY|VA|E|A|D|L|T|R|W|A|E|L|R|.EF|PII|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GRHI|VIRPLAY|VA|E|K|D|L|T|R|W|A|E|H|R|.QF|PII|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GKHI|VIRPLAY|VP|E|H|D|L|A|A|W|A|E|H|R|.QF|PII|P|C|.D|.L|CGSQ
VS|D|.R|.D|.GDHI|VIRPLAY|HVA|E|A|D|L|R|W|A|E|L|R|.AF|PII|P|C|.T|.L|CGSQ
VS|D|.D|.D|.GGHI|VIRPLTNVA|E|K|D|L|A|W|A|K|H|R|.EF|PLI|P|C|.S|.L|CGSQ
TS|D|.N|.D|.GEFI|VIRPLAY|VA|E|N|D|L|I|R|W|A|E|H|R|.QF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.KRNI|IIRPLAY|CR|E|A|D|I|E|K|F|S|A|Y|K|.QF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.KRNI|VIRPLAY|AR|E|K|D|I|E|Y|A|S|F|K|.QF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GRNI|VIRPLAY|AR|E|A|D|I|E|F|A|G|Y|K|.NF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.NRNI|VIRPLAY|CR|E|R|D|I|K|R|F|A|E|I|K|.GF|PVV|P|C|.G|.L|CGSQ
LS|D|.D|.D|.KRNV|VIRPLAY|CK|E|D|E|I|E|A|F|S|K|F|K|.SY|PVI|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GRNI|VIRPLAY|CR|E|K|D|L|K|F|A|D|I|M|.EY|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.KRNI|VIRPLAY|CR|E|S|D|I|E|A|F|S|Q|Y|K|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GKNI|VIRPLAY|CT|E|K|D|I|E|A|F|A|E|L|K|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GKNV|LIRPLAY|CK|E|K|D|I|A|E|Y|A|R|L|K|.GF|PII|P|C|.N|.L|CGSQ
LT|D|.D|.D|.RRHV|VIRPLAY|CA|E|A|H|I|A|K|F|A|R|G|M|.EY|PII|P|C|.T|.L|CGTQ
RS|D|.D|.D|.GRNI|LIRPLY|CR|E|S|L|I|S|R|W|S|E|F|Q|.QH|PII|P|C|.N|.L|CGSQ
LT|D|.D|.D|.KSL|VIRPLVY|VQ|E|R|D|I|A|E|F|A|Y|L|S|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.KRNI|VIRPLAY|CK|E|T|D|I|A|E|F|A|R|L|K|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GRNV|VIRPLAY|CR|E|S|D|L|V|A|Y|A|D|Y|K|.AF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.KRNI|LIRPLAY|VE|K|D|I|K|Y|A|E|I|R|.QF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.KRNI|VIRPLAY|CK|E|D|D|L|E|Y|A|E|L|K|.XF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.QRHI|VIRPLAY|CR|E|S|D|I|E|A|Y|S|N|A|R|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.KRNI|VIRPMAY|CK|E|S|D|I|A|A|F|S|E|Y|K|.QF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GANM|VIRPLAY|CR|E|K|D|I|A|E|Y|A|K|L|K|.AF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GKNM|VIRPLAY|SR|E|K|D|I|A|A|F|A|E|L|K|.QF|PII|P|C|.N|.L|CGSQ
VS|D|.N|.D|.GEHV|VIRPLAF|CK|E|A|E|L|I|Q|Y|A|Q|L|R|.AF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.KRNI|IIRPLAY|TR|E|K|D|I|E|R|L|A|A|F|K|.NY|PII|P|C|.N|.L|CGSQ
VS|D|.N|.D|.GEHV|VIRPLAY|VR|E|K|D|I|Q|S|Y|D|K|K|.AF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GKHV|VIRPLCY|VP|E|K|D|T|A|R|W|A|Q|Y|Q|.EF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GENI|LIRPLAY|CE|K|D|I|E|Y|A|R|Y|K|.AF|PII|P|C|.N|.L|CGSQ
AT|N|.R|.D|.GEFM|VIRPLAY|CA|E|K|D|I|A|A|Y|R|G|M|.QF|PII|P|C|.D|.L|CGSQ
LS|D|.D|.D|.GKHV|VIRPLAY|VR|E|A|D|I|A|A|Y|R|M|R|.GF|PII|P|C|.N|.L|CGSQ
VS|D|.N|.D|.GKHV|VIRPLVY|CR|E|K|D|I|A|K|Y|S|E|H|M|.QF|PII|P|C|.N|.L|CGSQ
HS|D|.D|.D|.GRNT|VIRPLAY|CR|E|K|D|I|A|E|Y|A|G|L|R|.QF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GRHM|VIRPLCY|VP|E|K|D|T|A|R|W|A|Q|Y|Q|.QF|PII|P|C|.N|.L|CGSQ
AS|D|.N|.D|.GKHV|VIRPLAY|VP|E|K|D|T|A|R|W|A|Q|Y|Q|.NF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GRNI|VIRPLS|Y|CR|E|K|D|I|A|F|A|N|F|K|.EF|PII|P|C|.N|.L|CGSQ
VS|D|.N|.D|.GKHV|VIRPLAY|TR|E|K|D|I|A|K|Y|A|E|H|M|.NF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GANM|VIRPLAY|SR|E|K|D|I|A|E|Y|A|E|L|K|.SF|PII|P|C|.N|.L|CGSQ
VS|D|.N|.D|.GEHV|VIRPLAY|VR|E|K|D|I|E|R|Y|A|E|Y|Q|.QF|PII|P|C|.N|.L|CGSQ
RS|D|.D|.D|.QRNV|VIRPLAY|CR|E|A|D|I|A|Y|A|D|H|K|.QF|PII|P|C|.N|.L|CGSQ
RS|D|.D|.D|.GRHV|VIRPLAY|CR|E|S|D|I|A|E|Y|A|A|Q|R|.AF|PII|P|C|.N|.L|CGSQ
RS|D|.D|.D|.GRHI|VIRPLAY|VA|E|A|D|I|A|R|Y|A|E|A|K|.GF|PII|P|C|.N|.L|CGSQ
VS|D|.N|.D|.GQHV|VIRPLAY|AR|E|K|D|I|A|K|Y|S|E|A|C|.EF|PII|P|C|.N|.L|CGSQ
RS|D|.D|.D|.GRNV|VIRPLAY|CR|E|K|D|I|E|Y|A|E|H|K|.DF|PII|P|C|.N|.L|CGSQ
VS|D|.N|.D|.GEHV|VIRPLAF|CK|E|S|E|L|I|Q|Y|S|E|L|K|.HF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GKHI|VIRPLAY|CK|E|K|D|L|A|A|Y|A|E|M|.NF|PII|P|C|.N|.L|CGSQ
AT|D|.D|.D|.GAHI|VIRPLAY|CK|E|S|D|I|A|T|Y|A|R|A|M|.EY|PII|P|C|.D|.L|CGSQ
LS|D|.D|.D|.GRNI|VIRPMAY|CR|E|K|D|L|V|R|F|A|D|C|K|.GF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GANI|VIRPLAY|CR|E|K|D|I|Q|E|Y|S|T|L|K|.SF|PII|P|C|.N|.L|CGSQ
RS|D|.D|.D|.GRHV|VIRPLAY|VR|E|S|D|I|V|E|Y|A|Q|R|.RF|PII|P|C|.N|.L|CGSQ
KS|D|.D|.D|.GRNV|VIRPLAY|CA|E|K|D|L|S|K|F|A|D|L|K|.AF|PII|P|C|.N|.L|CGSQ
RS|D|.D|.D|.GRHV|VIRPLVY|VR|E|S|D|I|E|Y|A|N|V|R|.RF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GKHV|VIRPLAY|VR|E|A|D|I|E|Y|A|A|R|.RF|PII|P|C|.N|.L|CGSQ
KS|D|.D|.D|.GKHI|LIRPLAY|CR|E|Q|D|I|E|R|Y|S|E|M|K|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GANV|VIRPLAY|CR|E|K|D|I|E|E|Y|A|T|L|K|.DF|PII|P|C|.N|.L|CGSQ
MS|D|.N|.D|.GEHM|VIRPLAY|CK|E|A|D|I|S|K|Y|A|F|S|Q|.GY|PII|P|C|.N|.L|CGSQ
IS|D|.N|.D|.KEHI|VIRPLAY|CR|E|K|D|I|S|K|Y|S|V|I|K|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GANM|VIRPLAY|AR|E|K|D|I|A|E|Y|A|A|L|K|.GF|PII|P|C|.N|.L|CGSQ
LT|D|.D|.D|.RRHI|VIRPLAY|CP|E|V|D|I|A|R|Y|A|R|Y|R|.EF|PII|P|C|.T|.L|CGSQ
LS|D|.D|.D|.GKNI|VIRPLAY|CK|E|A|D|I|A|E|F|S|R|L|M|.EF|PII|P|C|.N|.L|CGSQ
LAD|.D|.D|.GRNV|VIRPLAY|CS|E|K|D|I|Q|A|Y|S|D|L|K|.QF|PII|P|C|.N|.L|CGSQ
RS|D|.D|.D|.GRNV|VIRPLAY|CN|E|K|D|I|Q|A|Y|S|D|L|Q|.QF|PII|P|C|.N|.L|CGSQ
HS|D|.D|.D|.GRNT|VIRPLAY|SR|E|K|D|L|R|Y|A|E|L|R|.QF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GQHV|VIRPLAY|CK|E|H|D|L|T|T|Y|A|A|R|.QF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GANM|VIRPLAY|CK|E|K|D|I|A|E|Y|A|E|L|K|.QF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GKHV|VIRPLAY|VS|E|S|D|I|D|Y|A|V|A|C|.NF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GQNI|VIRPLAY|CS|E|K|D|I|E|K|Y|S|N|A|A|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.GANM|VIRPMAY|CR|E|K|D|I|S|E|Y|A|D|L|K|.AF|PII|P|C|.N|.L|CGSQ
RS|D|.D|.D|.GRNV|IIRPLAF|CR|E|K|D|L|A|K|F|A|E|L|M|.EF|PII|P|C|.N|.L|CGSQ
VS|D|.N|.D|.GEHV|VIRPLAY|CR|E|K|D|I|K|Y|A|D|M|A|.DY|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.DRHV|IIRPLAY|VR|E|D|D|I|A|A|Y|A|E|A|K|.RF|PII|P|C|.N|.L|CGSQ
VS|D|.D|.D|.GKNV|VIRPLAY|VK|E|P|D|L|V|R|W|A|E|H|R|.EF|PII|P|C|.N|.L|CGSQ
LS|D|.D|.D|.RKNV|VIRPMAY|CK|E|A|D|I|Q|A|Y|A|K|A|K|.AF|PII|P|C|.N|.L|CGSQ
AS|D|.N|.D|.GEHM|VIRPLAY|CK|E|E|E|I|T|Q|Y|A|K|L|K|.EF|PII|P|C|.N|.L|CGSQ
LAD|.D|.D|.KRNI|IIRPLAY|CV|E|A|D|L|E|E|F|A|K|Q|K|.AF|PII|P|C|.N|.L|CGSQ
AS|D|.N|.D|.GEHM|VIRPLAY|CK|E|D|E|I|A|Q|Y|A|Q|L|K|.AF|PII|P|C|.N|.L|CGSQ

tr|A0A1W9JDH2|A0A1W9JDH2_9PROT
tr|A0A1M5BF43|A0A1M5BF43_9BURK
tr|A0A2E7TF27|A0A2E7TF27_9GAMM
tr|A4BCL14|A4BCL14_9GAMM
tr|A0A2V1GX35|A0A2V1GX35_9FLAO
tr|A0A142BEY8|A0A142BEY8_9GAMM
tr|A0A0J8GW65|A0A0J8GW65_9ALTE
tr|A0A1M5FZ26|A0A1M5FZ26_9GAMM
tr|A0A257U9D9|A0A257U9D9_9PROT
tr|A0A2E9D1E6|A0A2E9D1E6_9GAMM
tr|A0A126NMK7|A0A126NMK7_9GAMM
tr|K6ZRA0|K6ZRA0_9ALTE
tr|A0A2N0WY52|A0A2N0WY52_9GAMM
tr|A0A1D2QPG0|A0A1D2QPG0_9GAMM
tr|A0A0Q9ESH6|A0A0Q9ESH6_9GAMM
tr|A0A1V4CCB4|A0A1V4CCB4_9BURK
tr|A0A1G8SDV5|A0A1G8SDV5_9GAMM
tr|A0A0A2XGJ5|A0A0A2XGJ5_9PAST
tr|A0A1N6Q9N0|A0A1N6Q9N0_9GAMM
tr|A0A2I9CXW9|A0A2I9CXW9_9DEIO
tr|A0A1Z8A689|A0A1Z8A689_9GAMM
tr|K4KEMO|K4KEMO_STMAS
tr|A0A2EOHL83|A0A2EOHL83_9GAMM
tr|A0A2E6UBI3|A0A2E6UBI3_9GAMM
tr|A0A2TOVN17|A0A2TOVN17_9GAMM
tr|C7RA21|C7RA21_KANKD
tr|A0A0A2WH96|A0A0A2WH96_9GAMM
tr|A0A1B3BC99|A0A1B3BC99_9GAMM
tr|A0A2SOVTT1|A0A2SOVTT1_9ALTE
tr|A0A1M7HXG8|A0A1M7HXG8_9GAMM
tr|A0A1H4FYD6|A0A1H4FYD6_ALKAM
tr|A0A1N6RTY4|A0A1N6RTY4_9GAMM
tr|E6WX66|E6WX66_PSEUU
tr|A0A1A9F5J5|A0A1A9F5J5_9GAMM
tr|A0A0Q8EDG6|A0A0Q8EDG6_9GAMM
tr|A0A2E7ZPW4|A0A2E7ZPW4_9DELT
tr|A0A1W1V8N1|A0A1W1V8N1_9DEIO
tr|A0A2D9SQE6|A0A2D9SQE6_9GAMM
tr|A0A2G2JE37|A0A2G2JE37_9GAMM
tr|H3ZAK4|H3ZAK4_9ALTE
tr|A0A258V319|A0A258V319_9PROT
tr|A0A1E7Q6F9|A0A1E7Q6F9_9GAMM
tr|A0A1W9KKP7|A0A1W9KKP7_9PROT
tr|K2JNE8|K2JNE8_9GAMM
tr|A0A2A5HUD4|A0A2A5HUD4_9ALTE
tr|A0A2U2ADCO|A0A2U2ADCO_9GAMM
tr|A0A2G6EIJ4|A0A2G6EIJ4_9GAMM
tr|A4CAS6|A4CAS6_9GAMM
tr|A0A2R5F7M4|A0A2R5F7M4_9PROT
tr|M1FGK9|M1FGK9_9ALTE
tr|A0A1D2X618|A0A1D2X618_9GAMM
tr|A0A2E9JUF8|A0A2E9JUF8_9GAMM
tr|A0A081KEH3|A0A081KEH3_9GAMM
tr|A0A1N7KE69|A0A1N7KE69_9GAMM
tr|A0A0U2ZN38|A0A0U2ZN38_9ALTE
tr|A0A2S7UWA8|A0A2S7UWA8_9GAMM
tr|A0A0E2Z2P9|A0A0E2Z2P9_9GAMM
tr|A0A290TR64|A0A290TR64_PSEO7
tr|A0A172YKH4|A0A172YKH4_9GAMM
tr|A0A2N2SFH7|A0A2N2SFH7_9PROT
tr|A0A2N2RWE8|A0A2N2RWE8_9PROT
tr|A0A0S8AA06|A0A0S8AA06_9GAMM
tr|A0A1H9YSB8|A0A1H9YSB8_9ALTE
tr|K2LB06|K2LB06_9GAMM
tr|A0A1I0HCR0|A0A1I0HCR0_THASX
tr|A0A2A5CH30|A0A2A5CH30_9GAMM
tr|A0A2N2VG94|A0A2N2VG94_9PROT
tr|A0A0F4Q4B8|A0A0F4Q4B8_9GAMM
tr|A0A246HHM2|A0A246HHM2_STEMA
tr|A0A2K1Q139|A0A2K1Q139_9GAMM
tr|A0A2D8KYB7|A0A2D8KYB7_9GAMM
tr|A0A238Z6E0|A0A238Z6E0_9PROT
tr|K6Z7L1|K6Z7L1_9ALTE
tr|A0A1Q5U4V8|A0A1Q5U4V8_9GAMM
tr|A0A1D2S491|A0A1D2S491_9BURK
tr|A0A1E7PZD4|A0A1E7PZD4_9ALTE
tr|I3ICA1|I3ICA1_9GAMM
tr|A0A244CVN1|A0A244CVN1_9GAMM
tr|A0A291THA3|A0A291THA3_9GAMM
tr|A0A2I6S9K3|A0A2I6S9K3_9RHOO
tr|A0A2M7Y3H3|A0A2M7Y3H3_9RHOO
tr|A0A2G2IH67|A0A2G2IH67_COLSX
tr|A0A261U141|A0A261U141_9BORD
sp|C5BRQ7|TTCA_TERTT
tr|A0A1N6F753|A0A1N6F753_9PROT
tr|A0A2E2BJH1|A0A2E2BJH1_9GAMM
tr|A0A2W5I668|A0A2W5I668_9GAMM
sp|C4L8F7|TTCA_TOLAT
tr|B8KS81|B8KS81_9GAMM
tr|Z5XT64|Z5XT64_9GAMM
tr|A0A0P6YKA9|A0A0P6YKA9_VIBSP
tr|R5E7W5|R5E7W5_9BURK
tr|A0A2S5KXJ5|A0A2S5KXJ5_9PROT
tr|Z9JMS5|Z9JMS5_9GAMM
tr|A0A2S2E3Y6|A0A2S2E3Y6_9ALTE
tr|A0A165SBD0|A0A165SBD0_9GAMM
tr|A0A2M9ECT5|A0A2M9ECT5_9GAMM
tr|A0A1A6KZA3|A0A1A6KZA3_9VIBR
tr|A0A2P6M725|A0A2P6M725_9GAMM
tr|A0A1Z9SXF6|A0A1Z9SXF6_9GAMM
tr|K6Y991|K6Y991_9ALTE
tr|H8L0D3|H8L0D3_FRAAD
tr|A0A2T3L8L6|A0A2T3L8L6_9GAMM

ATN...D...KQNVVIRPLAYCAEKDIASVARQM...EFPIIIPC...D...L...CGSQ
VSD...D...GKHVVIRPLAYIPKEDTVQWAQYQ...QFPIIIPC...N...L...CGSQ
LSD...N...GYNIVIRPLAYCRVDDIKKYATLRL...GFPIIIPC...N...L...CGSQ
LSD...S...KSNILIRPLAYCRESDIEEFARLKL...NYPIIIPC...N...L...CGSQ
LSD...D...KQNVVIRPLAYCKEEDLIRFADYK...QFPIIIPC...N...L...CGSQ
RSD...D...GRNVVIRPLAYCREKDISRFAEIQ...NYPIIIPC...N...L...CGSQ
ISD...N...NEHIVIRPLAYCRKDIVKVFSEVK...EFPIIIPC...N...L...CGSQ
RAD...D...GRNIVIRPLAYCREEDIRYAEHK...AFPIIIPC...N...L...CGSQ
VSD...D...GHHVVIRPLAYSRKDIARAYAKHR...QFPIIIPC...D...L...CGSQ
RSD...D...GRNIVIRPMAYCCERDISKYARIR...DFPIIIPC...N...L...CGSQ
RSD...D...GKHVVIRPLAYVRADITEYADAR...QFPIIIPC...N...L...CGSQ
TSD...D...GKNVVIRPLAYCREQDIADYAQHK...GFPIIIPC...N...L...CGSQ
VSD...N...GEHVVIRPLAYCKEKETEYATLTK...GYPIIIPC...N...L...CGSQ
LSD...D...QRNIVIRPLAFCRQEIAKYTEYK...QFPIIIPC...N...L...CGSQ
LSD...D...GKHVVIRPLAYVRADDIAQYAAQR...EFPIIIPC...N...L...CGSQ
VSD...N...GEFMOVIRPLAYVPEKDLIRWAEHR...QFPIIIPC...T...L...CGSQ
RSD...D...GANVVIRPLAYARKDIAEYASMK...AFPIIIPC...N...L...CGSQ
ISD...D...GKQIVIRPLAYCRKDIARAYAEAK...KFPIIIPC...N...L...CGSQ
VSD...D...GKNMVIRPLAYARKDIAEYAEELR...EFPIIIPC...N...L...CGSQ
QSD...D...GTNVVIRPLAYLAREDIRYAVAK...GFPIIIPC...N...L...CGSQ
LSD...D...KRNVIRPLAYCRESLITFADYK...QFPIIIPC...N...L...CGSQ
RAS...D...GRNIVIRPLAYCKESDLIAYAKAK...QFPIIIPC...N...L...CGSQ
LSD...D...GRNIVIRPLAYCREKDIAAFAFGFK...QFPIIIPC...N...L...CGSQ
VSD...N...GEHVVIRPLAFCRKDIARVSEAM...AFPIIIPC...N...L...CGSQ
LSD...D...GRNMVIRPLAYCREADIADFARLM...EFPIIIPC...N...L...CGSQ
KSD...D...GKHIVIRPLAYCKEKDIAKFAKLK...EFPIIIPC...N...L...CGSQ
RSD...D...GKHVVIRPLAYVRESIDIASYAEVR...GFPIIIPC...N...L...CGSQ
KSD...D...GKHIVIRPLAYCKEKDIAEFKAKK...EFPIIIPC...N...L...CGSQ
VTD...N...GEHIVIRPLAYCREKDIAYAVAR...EYPIIIPC...N...L...CGSQ
LSD...D...AKNIVIRPLAYCKEADIAEFYSRQM...AYPIIIPC...N...L...CGSQ
LSD...N...GEHVVIRPLAYCREKDIARAYAEAK...AFPIIIPC...N...L...CGSQ
LSD...D...GKHVVIRPLAYVRADDIEQYAEIK...DFPIIIPC...N...L...CGSQ
LSD...D...GRHVVIRPLAYVREEDIVQYAAAR...QFPIIIPC...N...L...CGSQ
LSD...D...GKNMVIRPLAYARKDIAYAYSELRL...QFPIIIPC...N...L...CGSQ
LSD...N...GKHVVIRPLAYVREDDIAAYADAK...GFPIIIPC...N...L...CGSQ
ISD...D...GKNTVIRPLSYVPEEMIVHFAKHK...QWPLIIPC...S...L...CGSRQ
QSD...D...GTNVVIRPLAYLAREDIRYAAAK...GFPIIIPC...N...L...CGSQ
LSD...D...GANIVIRPLXYCKEVXLIIXYAELO...AFPIIIPC...N...L...CGSQ
LSD...D...KKHIVIRPLAYCKEKDIEAFSKAK...EYPIIIPC...N...L...CGSQ
ISD...N...GEHIVIRPLAYCKEKDIEKYSVAK...GFPIIIPC...N...L...CGSQ
ATN...R...GQFMVIRPLAYCSKDIASVARQM...EFPIIIPC...D...L...CGSQ
VSD...N...GEHVVIRPLVYCKEKDIEQYSIAK...GFPIIIPC...N...L...CGSQ
VSD...D...GKHIVIRPLAYCKEKDLAAAYAMA...DFPIIIPC...N...L...CGSQ
VSD...D...GKHMVIRPLAYCREKDIKYSSEAK...GFPIIIPC...N...L...CGSQ
LSD...D...KRNVIRPLFNCSKDLIAFAEAR...QFPIIIPC...N...L...CGSQ
QSD...D...FDNIVIRPLSYCREVDIEEYATLRL...AFPIIIPC...N...L...CGSQ
RSD...D...GKHTVIRPLALNDESDLAKYATAM...QFPIIIPC...N...L...CGSQ
ASD...D...GQHMVIRPLAYCKEADIEEYAEHK...EFPIIIPC...N...L...CGSQ
ATD...T...GEHIVIRPLAYCAEKDIATYARHM...AFPIIIPC...D...L...CGSQ
RSD...D...GRNTVIRPLAYCREKDLERFAELRL...NYVPIIPC...N...L...CGSQ
RSD...D...GRNVVIRPLAYCREKDI LRLADLM...EFPIIIPC...N...L...CGSQ
LSD...D...KRNVIRPLAYCGEQDIEQYASIR...AFPIIIPC...N...L...CGSQ
RSD...D...GRNIVIRPLAYCREKDI TRFSEQL...EFPIIIPC...N...L...CGSQ
VSD...D...GKNMVIRPLAYARKDI AEYAMLK...EFPIIIPC...N...L...CGSQ
VSD...D...GKQMVIRPLAYCAEKDIDRYSQHM...QFPIIIPC...N...L...CGSQ
KSD...N...NEHVIIRPLAYAKKEIEEFSSQLK...GFPIIIPC...N...L...CGSQ
LSD...N...GRHIVIRPLAYCREKDLITYAHLK...AFPIIIPC...N...L...CGSQ
RSD...D...GRNVVIRPLTYARKDLIQYAEHK...DFPIIIPC...N...L...CGSQ
LSD...D...GRHIVIRPLAYVAADIEYQAQM...GFPIIIPC...N...L...CGSQ
STN...D...RQNVIRPLAYCSKDIASVARQM...GFPIIIPC...D...L...CGSQ
ATN...D...KRNVIRPLAYCSERDIASVARQM...DFPIIIPC...D...L...CGSQ
LTD...D...GAHTVVRPLAYCAEKDIARAYARAM...EFPIIIPC...N...L...CGSQ
FSD...D...GRNTVIRPLAYSRKDIARAYATLRL...EYPIIIPC...N...L...CGSQ
VSD...N...GEHVVIRPLAYARKDISRYAEQM...QFPIIIPC...N...L...CGSQ
MSD...N...GEHVVIRPLAFCKEELAQYANLK...NFPIIIPC...N...L...CGSQ
LSD...D...KRNVIRPLAYCRETDLIAKYKYK...QFPIIIPC...N...L...CGSQ
ATN...R...GEFMOVIRPLAYCAEKDIASYARGM...QFPIIIPC...D...L...CGSQ
MSD...D...GQHMVIRPLAYCKEADISAYAQOK...EFPIIIPC...N...L...CGSQ
RSD...D...GQHIVIRPLAYVSEADISAYAQAR...AFPIIIPC...T...L...CGSQ
LSD...D...GKHVVIRPLAYVRESIDIEYADAR...QFPIIIPC...N...L...CGSQ
LND...S...GQHIVIRPLAYCREDDIAKYAQAL...QFPIIIPC...D...L...CGSQ
ATN...K...GEFHVIRPLAYCAEKDIASYARGM...NFPIIIPC...D...L...CGSQ
VSD...D...GKQMVIRPLAYCAEQDISAYSQHL...EFPIIIPC...N...L...CGSQ
RSD...D...GRNVVIRPLAYCRETDLIQYAESK...KFPIIIPC...N...L...CGSQ
VSD...D...GKHVVIRPLCYVTETDTRRWSELO...GFPIIIPC...N...L...CGSQ
HSN...D...GRNTVIRPLAYSRKDIARFAQLRL...GYPIIIPC...N...L...CGSQ
LSD...D...KRNVIRPLAYCSKEDI AHFAELK...GFPIIIPC...N...L...CGSQ
ASD...D...GQHMVIRPLAYCKEADIAAYAEHQ...KFPIIIPC...N...L...CGSQ
VSD...D...GKNVVIRPLAYCKEKDLIRYAEVK...SFPIIIPC...N...L...CGSQ
LSD...D...GEHVVIRPLAYCTEADIARFARM...DYPIIIPC...N...L...CGSQ
LSD...D...GRHVVIRPLAYCREDLAEYATLRL...GFPIIIPC...N...L...CGSR
RSD...D...GRNIVIRPLAYCREKELLAYSNLS...KHPIIIPC...N...L...CGSQ
ATN...D...GAHVVIRPLAYCSERDI AKYQAQM...EFPIIIPC...N...L...CGSQ
RSD...D...KRNVIRPLAYCPEDLEAFAQAR...AFPIIIPC...N...L...CGSQ
VSD...D...GQHIVIRPLAYCKEKDLAAAYAEIA...NFPIIIPC...N...L...CGSQ
LSD...D...GKNIVIRPLAYCREADIEEFSSQRM...AFPIIIPC...N...L...CGSQ
LSD...D...GRHVVIRPLAYVREADIVEYSQAK...AFPIIIPC...N...L...CGSQ
VSD...D...GKHVVIRPLAYCHKDLIRYAEWK...EFPIIIPC...N...L...CGSQ
LSD...D...GQNVVIRPLAYCKEEDISRYAQAO...AFPIIIPC...N...L...CGSQ
MSD...N...GEHMVIRPLAYCKEVDIEKYAERM...EFPIIIPC...N...L...CGSQ
RSD...D...GRNVVIRPLTYCRETDLIKYAEHK...EFPIIIPC...N...L...CGSQ
LSD...A...KEHIVIRPLVYLRKDLARWCRIK...GYDVIP...K...L...CGAD
VSD...D...GENIVIRPLAYCREKDIARFAMLK...EFPIIIPC...N...L...CGSQ
RSD...N...GKHVVIRPLAYVTADIVAYANTR...RFPIIIPC...N...L...CGNQ
VSD...D...GQHMVIRPLAYCSKDLARFAEVM...AFPIIIPC...N...L...CGSQ
LSD...D...GRNIVIRPLAYNRKDIERFADIM...EYPIIIPC...N...L...CGSQ
LSD...D...GKHVVIRPLAYVAADIEAYAAHK...GFPIIIPC...N...L...CGSQ
RSD...D...GRNVVIRPLTYCREKDLIAYAEHR...EFPIIIPC...N...L...CGSQ
RSD...D...GEHVVIRPLATCREADLIAYADWK...AFPIIIPC...T...L...CGSQ
LSD...D...KRNVIRPLAYCKEABIERAYALA...DFPIIIPC...D...L...CGSQ
VSD...D...GKQHVIRPLAYCAEQEISQYDLL...EFPIIIPC...N...L...CGSQ
QSD...D...GRHIVIRPLAYCREDEIASQYADQR...QFPIIIPC...N...L...CGSQ
RSD...D...QRNVVIRPLTYCREKDLIAYAEYR...EYPIIIPC...N...L...CGSQ

tr|A0A1V5G325|A0A1V5G325_9PROT
tr|A0A290XB88|A0A290XB88_9GAMM
tr|A0A1I2H4G4|A0A1I2H4G4_9GAMM
tr|A0A176H235|A0A176H235_9GAMM
tr|A0A2E8YFG2|A0A2E8YFG2_9GAMM
tr|A0A2D7P2I3|A0A2D7P2I3_9GAMM
tr|A0A0P9FV53|A0A0P9FV53_9GAMM
tr|C1CXB7|C1CXB7_DEIDV
tr|A0A1T4S3B8|A0A1T4S3B8_9GAMM
tr|A0A1M5LQ2A|A0A1M5LQ2A_9GAMM
tr|H8GP88|H8GP88_METAL
tr|A0A2D8J379|A0A2D8J379_9ALTE
tr|A0A1S8CV92|A0A1S8CV92_9GAMM
tr|A0A086D1F6|A0A086D1F6_9GAMM
tr|A0A2K8KNB1|A0A2K8KNB1_9GAMM
sp|Q9PFT8|TTCA_XYLF
tr|A0A2E1NM27|A0A2E1NM27_9GAMM
tr|A0A0P7XJ61|A0A0P7XJ61_9GAMM
tr|W6M556|W6M556_9GAMM
tr|A0A2D4SCQ4|A0A2D4SCQ4_9GAMM
tr|A0A1X9NHT9|A0A1X9NHT9_9GAMM
tr|A0A2E0A0S2|A0A2E0A0S2_9GAMM
tr|M5E4J8|M5E4J8_9GAMM
tr|G4QHE8|G4QHE8_GLANF
sp|Q9RXK35|TTCA_DEIRA
tr|A0A2T6E6Y1|A0A2T6E6Y1_9GAMM
tr|A0A1H8FZ23|A0A1H8FZ23_9PROT
sp|B4SRP3|TTCA_STRM5
tr|A0A014NTY8|A0A014NTY8_9GAMM
tr|A0A1Q6CN14|A0A1Q6CN14_9GAMM
tr|A0A2G6D781|A0A2G6D781_9PROT
tr|A0A2U9T3K6|A0A2U9T3K6_9GAMM
tr|A0A1I4A399|A0A1I4A399_9PROT
tr|B5JXV2|B5JXV2_9GAMM
tr|A0A072NBD9|A0A072NBD9_9DEIO
tr|A0A1Z8NXD9|A0A1Z8NXD9_9PROT
tr|A0A0D8CMH3|A0A0D8CMH3_9GAMM
tr|A0A0M2KFK4|A0A0M2KFK4_9GAMM
tr|K2AE11|K2AE11_9ZZZZ
tr|A0A0R0ALL0|A0A0R0ALL0_9GAMM
tr|R9PKE0|R9PKE0_AGAAL
tr|A0A1M7YUB2|A0A1M7YUB2_9VIBR
tr|A0A1T5I0D4|A0A1T5I0D4_9GAMM
tr|A0A128EXQ3|A0A128EXQ3_9GAMM
tr|A0A1S1MUF5|A0A1S1MUF5_9GAMM
tr|A0A2X5R8S2|A0A2X5R8S2_9GAMM
tr|A0A2N1CXC2|A0A2N1CXC2_9PSED
tr|A0A2G2H2M8|A0A2G2H2M8_9GAMM
tr|A0A2E4YG76|A0A2E4YG76_9GAMM
tr|A0A2G2Q5X8|A0A2G2Q5X8_9GAMM
tr|A0A220SM96|A0A220SM96_9GAMM
tr|A0A2D6RID9|A0A2D6RID9_9GAMM
tr|A0A1Q4C5T9|A0A1Q4C5T9_9PROT
tr|A0A2U3BB10|A0A2U3BB10_9VIBR
tr|A0A2T5JZ22|A0A2T5JZ22_9PROT
tr|A0A1H7BB07|A0A1H7BB07_9DEIO
tr|A0A286D8I8|A0A286D8I8_9GAMM
tr|A0A2E5MLP7|A0A2E5MLP7_9ALTE
tr|A0A1E5CLD3|A0A1E5CLD3_9VIBR
tr|A0A246B188|A0A246B188_9DEIO
tr|A0A2E0TPH4|A0A2E0TPH4_9DELT
tr|A0A2N1X999|A0A2N1X999_9GAMM
tr|A0A1G0F8Z3|A0A1G0F8Z3_9GAMM
tr|A0A2G6L227|A0A2G6L227_9GAMM
tr|A0A256CJ46|A0A256CJ46_9GAMM
tr|A0A2E0YVC0|A0A2E0YVC0_9GAMM
tr|A0A0C5V547|A0A0C5V547_9GAMM
tr|A0A1Y6BYG6|A0A1Y6BYG6_9ALTE
tr|A0A1Q3VUA6|A0A1Q3VUA6_9PROT
tr|A0A2G6L2U7|A0A2G6L2U7_9GAMM
tr|A0A1U7NY21|A0A1U7NY21_9DEIO
tr|A0A1Z8RH77|A0A1Z8RH77_9GAMM
tr|A0A2E3A5V1|A0A2E3A5V1_9BACT
tr|A0A2N5Y4E4|A0A2N5Y4E4_9GAMM
tr|A0A1E5A1Z7|A0A1E5A1Z7_9GAMM
tr|A0A0F7JQ50|A0A0F7JQ50_9DEIO
tr|A0A1H9G1B6|A0A1H9G1B6_9GAMM
tr|A0A136JWK1|A0A136JWK1_9BACT
tr|A0A2T3W7G0|A0A2T3W7G0_9DEIO
tr|A0A1Y0FU52|A0A1Y0FU52_9GAMM
tr|A0A2G6EXR6|A0A2G6EXR6_9GAMM
tr|A0A091B674|A0A091B674_9GAMM
tr|A0A2P1PY19|A0A2P1PY19_9GAMM
tr|A0A1G5EWZ9|A0A1G5EWZ9_9GAMM
tr|A0A2E1XG70|A0A2E1XG70_9PROT
tr|A0A2N5WYR8|A0A2N5WYR8_9GAMM
tr|A0A2I7N8U4|A0A2I7N8U4_9NEIS
tr|A0A2D9T881|A0A2D9T881_9DELT
tr|A0A2R8CL99|A0A2R8CL99_9GAMM
tr|A0A1G0CRC9|A0A1G0CRC9_9PROT
tr|A0A1J4ZIL9|A0A1J4ZIL9_9PROT
tr|A0A2E5Q4D6|A0A2E5Q4D6_9PROT
tr|A0A2E6R9S7|A0A2E6R9S7_9GAMM
tr|A0A1S1NZJ4|A0A1S1NZJ4_9GAMM
tr|U1JQ15|U1JQ15_9GAMM
tr|A0A1R4HE06|A0A1R4HE06_9GAMM
tr|A0A2D8WQ79|A0A2D8WQ79_9GAMM
tr|A0A221SZ95|A0A221SZ95_9DEIO
tr|F5SUP2|F5SUP2_9GAMM
tr|A0A0ROCZ1|A0A0ROCZ1_9GAMM
tr|A0A1H7YBV0|A0A1H7YBV0_9GAMM
tr|A0A2E9A969|A0A2E9A969_9ALTE
tr|A0A2A2I661|A0A2A2I661_9ALTE

RS.D..D..GKHI|VIRPLAY|CA|EADI|AA|YAEAR..QF|PII|PC|.N...|L|CGSQ
RS.D..D..GKHV|VIRPLAY|AA|EADI|AA|YADAM..AF|PII|PC|.N...|L|CGSQ
LD.D..D..GANNV|VIRPLAY|CR|ERDI|AA|YAQAR..GF|PII|PC|.N...|L|CGSQ
LD.D..D..KRNV|VIRPLAY|CR|EKDI|EQ|FALVK..AY|PII|PC|.N...|L|CGSQ
RSE.D..D..QONV|VIRPLAY|CR|ERDI|ER|YAESR..QF|PII|PC|.Q...|L|CGSQ
LD.D..D..KQNI|VIRPLAY|CK|ETDI|ERYASQQ..GF|PII|PC|.N...|L|CGSQ
LD.D..D..GQHM|VIRPLAY|CK|EKDI|VK|YAEAK..EF|PII|PC|.N...|L|CGSQ
QSD.D..D..GTNV|VIRPLAY|VA|ESDI|IR|YAQAR..EF|PII|PC|.N...|L|CGTQ
LD.D..N..GRHV|VIRPLAY|VA|EADI|AR|YARLK..EF|PII|PC|.N...|L|CGSQ
QSD.D..D..GRNI|VIRPLAY|CR|ESDI|AE|YARQR..AF|PII|PC|.N...|L|CGSQ
LD.D..D..RKNI|VIRPLAY|CR|EKDI|ER|FSAFK..NF|PII|PC|.N...|L|CGSQ
KSD.D..D..GRNV|VIRPLAY|CR|ERDI|ER|YAEAMR..QF|PII|PC|.N...|L|CGSQ
LST.D..D..KKNI|LIRPLAY|VA|EKDI|IK|YAQMR..QF|PII|PC|.N...|L|CGSQ
LD.D..D..KKNI|VIRPLAY|CR|EADI|AE|YARLM..DF|PII|PC|.N...|L|CGSQ
LD.D..S..QTNV|LIRPLAY|CR|EADI|AR|FSSLM..NY|PII|PC|.N...|L|CGSQ
RSD..N..GKHV|VIRPLAY|VS|ETDI|IA|YADAR..EF|PII|PC|.N...|L|CGSQ
LD.D..D..RKNV|VIRPLAY|CR|VDI|ER|YALQO..QY|PII|PC|.N...|L|CGSQ
VSD..N..GEHI|VIRPLAY|VK|EKDI|ER|YARAM..QY|PII|PC|.N...|L|CGSQ
LD.D..D..GRHV|VIRPLAY|CE|END|LAS|YAEIR..QF|PII|PC|.N...|L|CGSQ
RSD..D..D..GANNV|VIRPLAY|CS|ERDI|EK|WATLQ..DY|PII|PC|.N...|L|CGSQ
LD.D..D..KRNV|VIRPMAY|CK|EADI|ER|YASIK..QF|PII|PC|.N...|L|CGSQ
LD.D..D..KKHI|LIRPLSY|CK|EKDI|EA|FAEAK..EF|PII|PC|.N...|L|CGSQ
LD.D..D..KKHV|LIRPLAY|CK|ETDI|EAY|SNAK..EF|PII|PC|.N...|L|CGSQ
LD.D..D..KRNI|VIRPMAY|CR|EKDI|VR|FAELN..EY|PII|PC|.N...|L|CGSQ
QSD.D..D..GTNV|VIRPLAY|VA|EADI|IR|YAQAR..EF|VPI|PC|.N...|L|CGAQ
LD.D..S..GTNV|LIRPLAY|CR|EDDI|EQ|YAIER..EF|PII|PC|.N...|L|CGSQ
VSD..D..D..GRHI|VIRPLAY|CR|EKDI|AT|YAESA..AF|PII|PC|.N...|L|CGSQ
LD.D..D..GQHV|VIRPLAY|VR|HDI|AE|YAQAR..RF|PII|PC|.T...|L|CGSQ
RSD..D..D..ERNV|VIRPLAY|CR|EKDI|IR|YTEYK..NF|PII|PC|.N...|L|CGSQ
LD.D..D..KRNI|LIRPLAY|CR|EKDI|AT|LAEIN..DY|PII|PC|.N...|L|CGSQ
ISD.D..D..GKNI|VIRPLAY|CK|EADI|KA|YASAM..NF|PII|PC|.N...|L|CGSQ
LD.D..N..GKHV|VIRPLSY|VR|EDDI|AR|YAEIK..RF|PII|PC|.N...|L|CGSQ
VSD..D..D..GRHI|VIRPLAY|CK|EKDI|AT|YAQTA..DF|PII|PC|.N...|L|CGSQ
LD.D..D..GKNN|VIRPLAY|CK|EADI|AD|YAEAK..DF|PII|PC|.N...|L|CGSQ
QSD..D..D..GTNV|VIRPLAY|LA|ERDI|ER|YAVAK..GF|PII|PC|.N...|L|CGSQ
KSD..N..GEHI|VIRPLAY|CK|EKDI|VA|YAEIK..QF|PII|PC|.D...|L|CGSQ
LD.D..D..KRNI|VIRPLAY|CR|EKDI|IS|YAEKR..EF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNV|VIRPLAY|CR|EKDI|IR|YAQHK..NY|PII|PC|.N...|L|CGSQ
LD.D..S..KRHI|VIRPLAY|CQ|ESDI|IE|YAEKQ..AY|PII|PC|.T...|L|CGSQ
RSD..D..D..GKHV|VIRPLAY|VA|ERDI|VD|YAQAR..QF|PII|PC|.N...|L|CGSQ
VSD..D..D..GKHV|VIRPMAY|CK|ESDI|ME|KYAEIK..SF|PII|PC|.N...|L|CGSQ
RSD..D..D..ERNI|VIRPLSY|CR|EKDI|IR|YANAK..QF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNV|VIRPLTY|CR|EKDI|IK|YAEYK..QF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNV|VIRPLTY|CR|EKDI|VK|YAEHK..NF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNV|VIRPLTY|CR|EDDI|IR|YAQHK..DF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNV|VIRPLTY|CR|EKDI|IR|FADHK..AF|PII|PC|.N...|L|CGSQ
LD.D..D..KRNI|VIRPLTY|CR|EKDI|AK|VAADS..AY|PII|PC|.N...|L|CGSQ
RSD..D..D..NRNV|VIRPLAY|CR|EKDI|IE|FSALK..EY|PII|PC|.N...|L|CGSQ
RSD..D..D..NRNV|VIRPLAY|CR|EKDI|IE|FARYK..QY|PII|PC|.N...|L|CGSQ
RSD..D..D..NKNV|VIRPLAY|CR|EKDI|VR|FARYK..DF|PII|PC|.N...|L|CGSQ
RSD..D..D..NRNV|VIRPLAY|CR|EKDI|IR|FSAYK..RF|PII|PC|.N...|L|CGSQ
RAD..D..D..NRNT|VIRPLSY|CR|EADI|AR|YAQIR..EY|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNI|VIRPLAY|CK|EKDI|AA|YAEEM..NF|PII|PC|.N...|L|CGSQ
VSD..D..D..GRNV|VIRPLTY|CR|EKDI|IR|FAEHK..NF|PII|PC|.N...|L|CGSQ
VSD..D..D..GKNI|VIRPLAY|CK|EKDI|AA|YAEEM..NF|PII|PC|.N...|L|CGSQ
QSD..D..D..GTNV|VIRPLAY|VA|EADI|IR|YAEAR..RF|PII|PC|.N...|L|CGSQ
LD.D..D..GRHV|VIRPLAY|VR|EADI|AD|YAQAR..QF|PII|PC|.N...|L|CGSQ
KSD..D..D..GRNV|VIRPLAY|AR|EKDI|ER|YAEELR..SF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNV|VIRPLTY|CR|EKDI|IR|YAEHQ..QF|PII|PC|.N...|L|CGSQ
QSD..D..D..GTNV|VIRPLAY|VP|EADI|IR|YAHAR..AF|PII|PC|.N...|L|CGSQ
TTD..D..D..GRFQ|VIRPLIE|CD|EARI|AE|YAQLV..GF|PII|PC|.N...|L|CGSQ
LD.D..D..KRNI|VIRPLAY|CR|EKDI|AK|VAADA..EY|PII|PC|.N...|L|CGSQ
LD.D..D..GKHI|VIRPLAY|CT|EQDL|AR|YAAHR..QF|PII|PC|.N...|L|CGSQ
RSD..N..GKHV|VIRPLALND|ESDI|AK|YAAAM..AF|PII|PC|.N...|L|CGSQ
RSD..D..D..ADNI|VIRPLSY|CS|EADI|AA|YAQLR..EF|PII|PC|.N...|L|CGSQ
LD.D..D..RQNV|VIRPLAY|CR|EKDI|AR|FAAYK..DF|PII|PC|.N...|L|CGSQ
LAD..S..D..GRNI|LIRPMAY|CQ|EEDI|AR|YAEIK..EF|PII|PC|.N...|L|CGSQ
LAD..D..D..KRNI|VIRPLAY|CT|EQDL|DD|FQAQK..NF|PII|PC|.N...|L|CGSQ
VTD..D..D..GAHV|VIRPLAY|CA|EADI|AR|FARGM..EY|PII|PC|.N...|L|CGSQ
QSD..D..D..KRHI|VIRPLALNE|EKDI|AK|YAKAM..KF|VPI|PC|.N...|L|CGSQ
SSD..D..D..GENV|VIRPLAY|VA|EADI|QR|YADAR..AF|PII|PC|.T...|L|CGSQ
LD.D..D..GHNV|VIRPLAY|CR|EKDI|AE|YAALS..EF|PII|PC|.N...|L|CGSQ
RTQ..D..D..KRFE|VIRPLIE|CS|EKDI|ER|HSLSR..GY|PII|PC|.N...|L|CGSQ
LD.D..D..RRNV|VIRPMAY|CK|EKDI|AA|YADYK..QF|PII|PC|.N...|L|CGSQ
RSD..D..D..GKNV|VIRPLAY|CK|EKDI|EL|YAAQK..EY|PII|PC|.D...|L|CGSQ
QSD..D..D..GTNV|VIRPLAY|VA|EADI|IR|YAQAR..QF|PII|PC|.N...|L|CGSQ
VSD..D..D..GKNN|VIRPLAY|AR|EKDI|AA|YAEAMR..GF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNT|LIRPLAY|VH|EKDI|VE|YAEEO..QF|PII|PC|.N...|L|CGSQ
QSD..D..D..GTNV|VIRPLAY|VA|EADI|IR|YAQAR..AF|PII|PC|.N...|L|CGSQ
LAD..D..D..KRNI|LIRPLAY|CR|EADI|AR|FAEAK..GF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRHI|VIRPLALVE|EKDI|TK|YAEIK..AF|PII|PC|.N...|L|CGSQ
ASD..D..D..GEHV|VIRPLIT|CR|EADI|IE|YADWK..QF|PII|PC|.T...|L|CGSQ
RSD..D..D..GKHI|VIRPLAY|CA|ETDI|AD|YAEAM..AF|PII|PC|.N...|L|CGSQ
LD.D..N..KKHI|VIRPMCY|VQ|EKDI|IL|FAKEQ..SF|PII|PC|.N...|L|CGSQ
IND..E..D..GDLY|VIRPLIL|CA|ENDI|AK|FAAAM..QF|PII|PC|.N...|L|CGSQ
LAD..D..D..KKNV|VIRPLAY|CK|EKDI|AR|LALEYK..EF|PII|PC|.N...|L|CGSQ
VSD..D..D..GSNV|VIRPLAY|CA|EKDI|AR|YAMIK..EF|PII|PC|.N...|L|CGSQ
TTD..D..D..GRFQ|VIRPLIE|CD|EARI|AE|LAGLL..EF|PII|PC|.N...|L|CGSQ
LD.D..D..GKNI|VIRPMAY|CS|EADI|VR|FSEAM..AF|PII|PC|.N...|L|CGSQ
VTD..K..D..GDHI|VIRPLAY|CA|EKDI|AR|YARGM..EF|PII|PC|.N...|L|CGSQ
VTD..K..D..GDHI|VIRPLAY|CV|EKDI|AR|YARGM..EF|PII|PC|.N...|L|CGSQ
LD.D..D..DGNV|VIRPLAY|CS|EKDI|AR|YASLQ..GF|PII|PC|.H...|L|CGSQ
KSD..D..D..GDNI|VIRPLAY|CR|ESDI|EK|LAETR..DY|PII|PC|.N...|L|CGSQ
LD.D..D..NRNI|VIRPLAY|CS|EQDI|AS|FAEAM..AF|PII|PC|.N...|L|CGSQ
RSD..D..D..GRNV|VIRPLTY|CR|EDDI|IS|YAEYK..QF|PII|PC|.N...|L|CGSQ
LD.D..D..KKNI|LIRPLAY|CR|EKDI|ER|FSAFK..NF|PII|PC|.N...|L|CGSQ
LAD..D..D..KRNV|LIRPLAY|CK|EQDL|AD|FAEYK..AF|PII|PC|.N...|L|CGSQ
QSD..D..D..GANNV|VIRPLAY|VP|ETDI|VR|YAQAR..AF|PII|PC|.N...|L|CGSQ
LD.D..D..KTNI|VIRPLAY|AQ|ESDI|AR|YAEAM..KF|PII|PC|.N...|L|CGSQ
RSD..D..D..GQHV|VIRPLAY|VS|ESDI|SA|YADQO..RF|PII|PC|.T...|L|CGSQ
LD.D..D..GRHV|VIRPLIT|TVR|EADI|VQ|YAEAR..RF|PII|PC|.T...|L|CGSQ
KSD..D..D..GRHV|VIRPLAY|CR|ESDI|AD|YAHAM..QF|PII|PC|.N...|L|CGTQ
RSD..D..D..GRNQ|VIRPLAY|AR|EADI|AR|YAEELR..EY|PII|PC|.N...|L|CGSQ

tr|A0A2E9LY13|A0A2E9LY13_9GAMM
tr|A0A1Z8WWD5|A0A1Z8WWD5_9GAMM
tr|A0A0F9MI56|A0A0F9MI56_9ZZZZ
tr|T1CTQ3|T1CTQ3_9ZZZZ
tr|A0A2E2U047|A0A2E2U047_9GAMM
tr|A0A2E6P5P0|A0A2E6P5P0_9GAMM
tr|FORNE2|FORNE2_DEIPM
tr|A0A0G9HE90|A0A0G9HE90_9GAMM
tr|A0A2E0Y598|A0A2E0Y598_9GAMM
tr|A0A2E1LHL9|A0A2E1LHL9_9PROT
tr|A0A1Y5EW57|A0A1Y5EW57_9GAMM
tr|A0A2W4ST11|A0A2W4ST11_9GAMM
tr|A0A2E1UIK2|A0A2E1UIK2_9GAMM
tr|A0A0W0R3V7|A0A0W0R3V7_9GAMM
tr|A0A1Y6CSG3|A0A1Y6CSG3_9GAMM
tr|A0A2A5A3D3|A0A2A5A3D3_9GAMM
tr|N6WRQ1|N6WRQ1_9ALTE
tr|C6KUT2|C6KUT2_9BACT
tr|A0A250KVQ9|A0A250KVQ9_9GAMM
tr|A0A1G3FEZ7|A0A1G3FEZ7_9GAMM
tr|A0A1B2MZL9|A0A1B2MZL9_9GAMM
tr|A0A2D7VJ4|A0A2D7VJ4_9GAMM
tr|A0A2A2F9C1|A0A2A2F9C1_9GAMM
tr|A0A0W0VN22|A0A0W0VN22_9GAMM
tr|A0A2E8KD45|A0A2E8KD45_9GAMM
tr|V5BRF5|V5BRF5_9GAMM
tr|G4SXZ6|G4SXZ6_META2
tr|A0A2N1XMN0|A0A2N1XMN0_9GAMM
tr|A0A0F9TJC2|A0A0F9TJC2_9ZZZZ
tr|A0A1Y5DWS8|A0A1Y5DWS8_9GAMM
tr|A0A1I2HAE1|A0A1I2HAE1_9GAMM
tr|A0A1Z8VE82|A0A1Z8VE82_9PROT
tr|A0A2W6RX85|A0A2W6RX85_9GAMM
tr|A0A0L0EXB2|A0A0L0EXB2_9GAMM
tr|A0A2E9ZJK3|A0A2E9ZJK3_9GAMM
tr|A0A2T4E3N7|A0A2T4E3N7_9PROT
tr|A0A1Y5GPM4|A0A1Y5GPM4_9GAMM
tr|A0A220VEU1|A0A220VEU1_9GAMM
tr|A0A1Z9E398|A0A1Z9E398_9GAMM
tr|A0A261GIF8|A0A261GIF8_9GAMM
tr|A0A2E8J678|A0A2E8J678_9GAMM
tr|A0A2D7J8K6|A0A2D7J8K6_9GAMM
tr|A0A1G0D1G5|A0A1G0D1G5_9PROT
tr|A0A2D6DJJ6|A0A2D6DJJ6_9GAMM
sp|Q603C7|TTCA_METCA
tr|A0A2A5G2D9|A0A2A5G2D9_9GAMM
tr|I1XHY5|I1XHY5_METNJ
tr|A0A2G2LPW3|A0A2G2LPW3_9GAMM
tr|I8TCV9|I8TCV9_9GAMM
tr|A0A2E8K888|A0A2E8K888_9GAMM
tr|A0A1Y5FUF8|A0A1Y5FUF8_9GAMM
tr|A0A2E7EB10|A0A2E7EB10_9GAMM
tr|A0A0F9W8F1|A0A0F9W8F1_9ZZZZ
tr|A0A1Z9TK40|A0A1Z9TK40_9PROT
tr|A0A1D3RQ23|A0A1D3RQ23_9BACT
tr|A0A2A4AZU3|A0A2A4AZU3_9PSED
tr|A0A2E8CJP9|A0A2E8CJP9_9GAMM
tr|A0A0W0TW89|A0A0W0TW89_9GAMM
tr|I1YG12|I1YG12_METFJ
tr|A0A1Z4BZX9|A0A1Z4BZX9_9GAMM
tr|A0A2E5C3Z9|A0A2E5C3Z9_9GAMM
tr|A0A2T5MF75|A0A2T5MF75_9GAMM
tr|A0A1I6KR70|A0A1I6KR70_9GAMM
tr|S5THM5|S5THM5_9GAMM
tr|A0A2E5MAX8|A0A2E5MAX8_9GAMM
tr|A0A1G0JJJE0|A0A1G0JJJE0_9GAMM
tr|A0A250I8R2|A0A250I8R2_9DELT
tr|A0A250JI97|A0A250JI97_9DELT
tr|A0A2D8XZ99|A0A2D8XZ99_9GAMM
tr|A0A0S2KD85|A0A0S2KD85_9GAMM
tr|A0A0B4XNW6|A0A0B4XNW6_9GAMM
tr|A0A2G2Q9V3|A0A2G2Q9V3_9GAMM
tr|A0A133XFF6|A0A133XFF6_9RHOO
tr|A0A2A5CYC0|A0A2A5CYC0_9GAMM
tr|A0A2A5BHU1|A0A2A5BHU1_9GAMM
tr|E8U6F5|E8U6F5_DEIML
tr|A6GKC6|A6GKC6_9DELT
tr|M7P1R7|M7P1R7_9GAMM
tr|A0A0K1PVH2|A0A0K1PVH2_9DELT
tr|A0A0F9W6I5|A0A0F9W6I5_9ZZZZ
tr|A0A0R2V9H0|A0A0R2V9H0_9PROT
tr|A0A2G6PCZ6|A0A2G6PCZ6_9GAMM
tr|A0A0C1V3E1|A0A0C1V3E1_9CYAN
tr|A0A2U2AST5|A0A2U2AST5_9GAMM
tr|A0A1Y5EL08|A0A1Y5EL08_9GAMM
tr|A0A1X1QNJ6|A0A1X1QNJ6_9GAMM
tr|A0A0F7BPK4|A0A0F7BPK4_MYXFU
tr|A0A1G0EFZ6|A0A1G0EFZ6_9PROT
tr|A0A2N1YKY9|A0A2N1YKY9_9GAMM
tr|A0A2P8WE43|A0A2P8WE43_9CYAN
tr|A0P4J5|A0P4J5_9PROT
tr|A0A1Y1SI55|A0A1Y1SI55_9GAMM
tr|A0A2A5C6W6|A0A2A5C6W6_9GAMM
tr|A0A2P5MXA3|A0A2P5MXA3_METSP
tr|A0A2E0CCPF1|A0A2E0CCPF1_9GAMM
tr|A0A0R2TBZ4|A0A0R2TBZ4_9GAMM
tr|A0A2P5N529|A0A2P5N529_METSP
tr|A0A2E7XL11|A0A2E7XL11_9GAMM
tr|A0A2N6EIU6|A0A2N6EIU6_9DELT
tr|A0A1V8M7R8|A0A1V8M7R8_9GAMM
sp|Q2SK22|TTCA_HAHCH
tr|A0A1Z5HBC1|A0A1Z5HBC1_9GAMM
tr|A0A2S5TJU9|A0A2S5TJU9_9GAMM

KSD...D...GRHI|VIRPLAY|CR|ESD|AA|YAETM...KF|PII|PC...N...|LCGTQ
LSD...D...GNNV|VIRPLAY|CF|EKD|LS|YSEQQ...KF|PII|PC...D...|LCGSQ
LSD...D...KTNI|VIRPMSY|AK|EAD|IAK|YSDAM...KF|PII|PC...N...|LCGSQ
LSD...D...ESVI|VIRPLVY|CE|REI|AR|YARAM...AF|PVI|PC...K...|VCGSQ
KSD...D...GRNI|VIRPLYY|CR|EAD|SRWSEIK...EF|PII|PC...N...|LCGSQ
LSD...D...GDHI|VIRPLSY|CR|EKD|IAQ|YQVR...EF|PLI|PC...D...|LCGSQ
QSD...D...GTNV|VIRPLAY|VP|ESQ|IA|YAGAR...GF|PII|PC...N...|LCGSQ
LSD...D...GRHV|VIRPLAY|CR|EDD|AA|YADAR...AF|PII|PC...N...|LCGSQ
KSD...D...GRHV|VIRPLYY|CR|ERL|VAR|WAHR...GF|PII|PC...N...|LCGSQ
LTD...D...RRHV|VIRPLAY|CA|EAD|AR|FARAK...DY|PII|PC...N...|LCGTQ
LSD...D...KTNI|VIRPLSY|SR|ESD|ER|YSQWQ...NF|PII|PC...N...|LCGSQ
LSD...D...NKHI|VIRPLAY|CK|ERD|INE|YARLR...DF|PII|PC...N...|LCGSQ
RSD...D...GQNI|LIRPLYY|CR|ESL|QR|WSDFR...QY|PII|PC...N...|LCGSQ
LSD...N...KKHI|VIRPMCY|VQ|EKD|ID|YAKEL...NF|PII|PC...N...|LCGSQ
LSD...D...RRHV|VIRPLAY|CK|ERD|AA|YAEVR...DF|PLI|PC...N...|LCGSQ
RSD...D...GKNV|VIRPLAY|CK|EKD|AQ|YSDYK...NF|PII|PC...T...|LCGSQ
KSD...D...GRNV|VIRPLVY|AR|EKD|ER|YAGLR...EF|PII|PC...N...|LCGSQ
RSD...D...GANM|VIRPLYY|CR|EKD|AR|WADFR...GY|PII|PC...N...|LCGSQ
LSD...D...RRHI|VIRPLAY|CR|EKD|EA|YARIK...AF|PII|PC...N...|LCGSQ
RSD...D...GRHV|VIRPLAY|CR|ESD|AE|YATQR...QF|PII|PC...N...|LCGSQ
RSD...D...GQHV|VIRPLAY|VS|ERD|AQ|HAQAR...GF|PII|PC...T...|LCGSQ
RSD...D...GHN1|VIRPMAY|CR|EAD|LAR|YTQIR...EY|PVI|PC...N...|LCGSQ
FSD...D...GRNT|VIRPLAY|CR|EKD|AR|FAELR...EY|PII|PC...N...|LCGSQ
LSD...N...KKHI|VIRPMCY|VQ|EKD|MT|YAKEK...EF|PII|PC...N...|LCGSQ
LSD...D...KRNI|VIRPMAY|CK|EAD|QR|YADYK...AF|PII|PC...N...|LCGSQ
LSD...D...KKNI|VIRPLAY|CR|EKD|DR|FAAFK...QF|PII|PC...N...|LCGSQ
LSD...D...KKNI|VIRPLAY|CR|EKD|QR|FAAFR...DY|PII|PC...N...|LCGSQ
LSD...D...KTNI|LIRPLAY|CK|EAD|IR|YSNHE...QF|PII|PC...N...|LCGSQ
LSD...D...KTNI|VIRPLSY|CK|ESD|EQ|YSQWQ...KF|PII|PC...N...|LCGSQ
RSD...D...GRHV|VIRPLAY|CK|ESD|AE|YAGQQ...QF|PII|PC...N...|LCGSQ
RSD...D...GRNI|VIRPLAY|CR|EAD|LAR|YAKKK...EY|PVI|PC...N...|XCGSQ
LTD...D...KRHI|VIRPLAY|VP|EQAL|IE|FAQLK...QF|PII|PC...N...|LCGSQ
LSD...D...KRNI|VIRPLTY|CR|EKD|AK|YAEIC...KF|PII|PC...N...|LCGSQ
LSD...D...KRNI|VIRPLAY|CK|EKD|SL|YSDLV...NF|PII|PC...N...|LCGSQ
VSD...N...GEHV|VIRPLAY|AR|EKD|AR|YAAAL...EF|PII|PC...N...|LCGSQ
LSD...D...KRNI|VIRPLAN|CR|ERD|KD|YARQR...EF|PII|PC...N...|LCGSQ
LSD...D...KRNI|VIRPLTF|CR|ESD|AK|YAKIC...QF|PII|PC...N...|LCGSQ
KSD...D...GKHI|VIRPLAY|CS|ESD|AA|YAQAK...QF|PII|PC...N...|LCGTQ
KSD...D...DRNI|VIRPMAY|CR|EKD|ER|YAQVR...EF|PII|PC...N...|LCGSQ
HSD...D...GDSI|VIRPLAY|CR|EKD|DR|YAKLE...GM|PVI|PC...N...|LCGSQ
KSD...D...GRHI|VIRPLAY|CK|ESD|ER|YASDM...QF|PII|PC...N...|LCGTQ
LTD...D...KRNI|MIRPLVY|CQ|EKD|IA|YAESQ...DF|PII|PC...N...|LCGSQ
LSD...D...GKNT|VIRPLAY|AR|EAD|IA|YAEIK...QF|PII|PC...N...|LCGSQ
LSD...D...RRHI|VIRPLAY|CK|EED|IR|YARIR...AF|PII|PC...N...|LCGSQ
LSD...N...KKHV|VIRPLAL|CK|ETD|VA|YAKIK...NY|PII|PC...N...|LCGSQ
LSD...D...KTNI|VIRPLCYV|KESD|IR|YAEAK...AF|PII|PC...N...|LCGSQ
LSD...D...KTNI|LIRPLAY|CK|EAD|IR|YSEQQ...QF|PII|PC...N...|LCGSQ
LSD...D...GRNV|VIRPLSY|CR|ESD|IA|YATER...QF|PII|PC...N...|LCGSQ
HSD...D...GDNI|VIRPLAY|CR|EKD|DR|YANLV...GM|PII|PC...N...|LCGSQ
LSD...D...KKNI|VIRPLAY|CR|EDD|EL|LAEYK...EF|PII|PC...N...|LCGSQ
LSD...D...KKHV|LIRPLSY|CK|EKD|QA|FADAR...EF|PII|PC...N...|LCGSQ
LSD...D...RRNI|VIRPLSY|CR|EKD|AK|LASIV...EF|PII|PC...N...|LCGSQ
KSD...D...GKNI|LIRPLYY|CR|EKI|QR|WTEYK...AH|PII|PC...N...|LCGSQ
LSD...D...GQNI|LIRPLAY|CK|EKD|ET|YAEIK...QF|PII|PC...N...|LCGSQ
LSD...D...KRNI|VIRPLAY|CR|ERD|AK|LAELN...NY|PII|PC...N...|LCGSQ
LSD...D...RRNV|VIRPLAY|CR|ETD|TR|YAQMR...GY|PII|PC...N...|LCGSQ
LSD...N...KKHI|VIRPLCYA|QERD|IS|AFSLEQ...AY|PII|PC...T...|LCGSQ
LSD...D...KQNV|VIRPLAY|VK|EAD|VQ|YAAAQ...EF|PII|PC...N...|LCGSQ
LSD...D...KKNI|VIRPLAY|CR|EKD|ER|YSAFR...KY|PII|PC...N...|LCGSQ
LSD...D...KQNM|VIRPLAY|CK|ESD|ER|YAIK...QF|PII|PC...N...|LCGSQ
LSD...D...GKNV|VIRPLAY|CR|QDL|LD|YADLK...QF|PII|PC...T...|LCGSQ
RSD...D...GRHV|VIRPLAY|SR|ESD|IA|YAEQH...QF|PII|PC...N...|LCGSQ
KSD...N...AKHI|VIRPLAY|SR|EKD|AE|FAGLK...GY|PII|PC...N...|LCGSQ
KSD...D...GRNL|VIRPLYY|CR|ERD|LR|WAGVR...DY|PII|PC...D...|LCGSQ
LSD...D...KQNV|LIRPMAY|CS|EIS|SR|YAKLR...GF|PII|PC...N...|LCGTQ
KSD...D...GRNT|VIRPLCYA|P|EKD|IA|YAAAL...QF|PII|PC...D...|LCGSQ
KSD...D...GRNT|VIRPLCYA|P|EKD|IA|FAALK...QF|PII|PC...D...|LCGSQ
RSD...D...EKNI|LIRPLFY|CR|EKI|QR|WSQYR...SF|PII|PC...N...|LCGSQ
LSD...D...KQNI|VIRPLAY|VA|EKD|ER|YARLR...GF|PII|PC...N...|LCGTQ
RSD...D...GRNV|VIRPLAY|CR|EKD|EK|FAEYR...QF|PII|PC...N...|LCGSQ
LSD...D...KTNI|LIRPLAY|SK|ESD|IA|YAEIQ...QF|PII|PC...N...|LCGSQ
VTD...D...HAHI|VIRPLAY|CA|ESD|AK|FARGM...EF|PII|PC...N...|LCGSQ
KSD...N...GKHI|VIRPLAY|CP|EAD|IK|FADVR...AY|PII|PC...N...|LCGSQ
LSD...D...KTNI|LIRPLAY|CK|ESD|VL|YAEAK...QY|PII|PC...N...|LCGSQ
QSD...D...GKNV|VIRPLAY|VA|ERD|QR|YADAA...GY|PII|PC...N...|LCGSQ
TTD...D...VRFE|VIRPLIE|CA|EAD|IE|HASWA...KY|PII|PC...N...|LCGSQ
LSD...D...KTNI|VIRPLAY|AR|ESD|QR|YADAR...QF|PII|PC...N...|LCGSQ
TTD...D...GRFE|VIRPLID|CA|EAD|AE|YAVAH...EF|PII|PC...N...|LCGSQ
LSD...D...KQNV|VIRPLAY|CS|EKD|EV|YARLR...GF|PII|PC...N...|LCGTQ
LSD...D...KDNI|LIRPLAF|CE|EKD|IV|SYANTM...NF|PII|PC...N...|LCGSQ
QSD...D...GEHI|VIRPLAY|CD|ERD|AK|YARLK...GF|PII|PC...N...|LCGTQ
LTD...D...HRHI|VIRPLAY|CP|EKD|AR|YARQR...EF|PII|PC...T...|LCGSQ
ESD...D...GENI|VIRPLTY|CS|ESD|IK|YAKLR...QF|PII|PC...N...|LCGSQ
KSD...N...GKNI|VIRPLAY|AR|EKD|IE|FAKLK...AY|PII|PC...N...|LCGSQ
KSD...N...GKHI|VIRPLAY|SR|EKD|AE|FAMLK...EY|PII|PC...N...|LCGSQ
KSD...D...GRNV|VIRPLCYA|P|EKD|AK|FAELK...AF|PII|PC...D...|LCGTQ
VTD...K...GDHI|VIRPLAY|CA|EKD|IA|YARGM...GF|PII|PC...N...|LCGSQ
RSD...D...GKHV|LIRPLAY|CR|EKD|EK|YAAAY...EF|PII|PC...N...|LCGSQ
LTD...D...HRHI|VIRPLAY|CP|EAD|IR|YARYC...QF|PII|PC...T...|LCGSQ
LSD...D...KDNI|LIRPLAF|CE|EKD|MT|YANTM...NF|PII|PC...N...|LCGSQ
RSD...D...ARNV|VIRPLAY|TR|ESD|IA|YAAIH...EY|PII|PC...N...|LCGSQ
LSD...D...KQHI|VIRPLAY|CK|ESD|AE|FADYK...KF|PII|PC...T...|LCGNQ
LSD...D...KQNI|VIRPLAY|CR|EKD|NR|FAAFK...KF|PII|PC...N...|LCGSQ
RSD...D...GKNV|VIRPLAY|CC|EAD|QALSDLR...KY|PII|PC...N...|LCGSQ
LSD...D...KRNV|VIRPLAY|CK|ERE|ER|YAEIM...DF|PII|PC...N...|LCGSQ
LSD...D...KRNI|VIRPLAY|CR|EKD|SR|N529...NF|PII|PC...N...|LCGSQ
LSD...D...GENV|VIRPLAY|CS|EAD|ER|YSKIT...NM|PVI|PC...N...|LCGSQ
QAD...N...GRHT|VIRPLVY|VE|SLI|AE|YSRLR...GH|DI|IH...S...CP|VEG...
LSD...D...GQNM|VIRPLAY|CK|EOD|IV|V8MYR...QF|PII|PC...N...|LCGSQ
KSD...D...GRNI|VIRPLAY|CR|EKD|ER|YAGLR...EF|PII|PC...N...|LCGSQ
LSD...D...GKNM|VIRPLAY|CK|EKD|EK|YSDFK...QF|PII|PC...N...|LCGSQ
KSD...D...GKNV|VIRPMAY|CE|KRN|LKR|FADGM...KF|PII|PC...T...|LCGSQ

tr|A4A3N4|A4A3N4_9GAMM
tr|A0A2G2KAL2|A0A2G2KAL2_9PROT
tr|A0A2E5FBG4|A0A2E5FBG4_9GAMM
tr|A0A2A4SMP6|A0A2A4SMP6_9GAMM
tr|A0A0F6W7V0|A0A0F6W7V0_9DELTA
tr|A0A2FOA0K3|A0A2FOA0K3_9GAMM
sp|Q11U13|TTCA_CYTH3
tr|A0A2P5NEZ4|A0A2P5NEZ4_METSP
tr|E1VQC6|E1VQC6_9GAMM
tr|A0A2E2MTL9|A0A2E2MTL9_9GAMM
tr|A0A1Z9FGH1|A0A1Z9FGH1_9GAMM
tr|A0A1I3DY85|A0A1I3DY85_9GAMM
tr|A0A2E2HA01|A0A2E2HA01_9GAMM
tr|K2BLN4|K2BLN4_9ZZZZ
tr|A0A160DYR1|A0A160DYR1_9GAMM
tr|A0A1I1GW43|A0A1I1GW43_9GAMM
tr|A0A2G2QJ44|A0A2G2QJ44_9GAMM
tr|A0A1X1QH62|A0A1X1QH62_9GAMM
tr|A0A0B6X1V9|A0A0B6X1V9_9BACT
tr|A0A1E2VEV8|A0A1E2VEV8_9GAMM
tr|A0A1K1VFB2|A0A1K1VFB2_9GAMM
sp|Q1QZ76|TTCA_CHRSD
tr|A0A1Q7Y781|A0A1Q7Y781_9BACT
tr|A0A078MNG2|A0A078MNG2_9PSED
tr|A0A2E4UVU2|A0A2E4UVU2_9GAMM
tr|A0A2E8VQS3|A0A2E8VQS3_9GAMM
tr|A0A1X1QKH8|A0A1X1QKH8_9GAMM
tr|A0A0K0XS81|A0A0K0XS81_9GAMM
tr|A0A0W0XNH6|A0A0W0XNH6_9GAMM
tr|A0A212TD26|A0A212TD26_9BURK
tr|A0A2J6IVU2|A0A2J6IVU2_9DELTA
tr|A0A2S6F1D8|A0A2S6F1D8_LEGPN
tr|A0A1G0KEH2|A0A1G0KEH2_9GAMM
tr|A0A1Q4DS47|A0A1Q4DS47_9GAMM
tr|A0A0W1A0B9|A0A0W1A0B9_9GAMM
tr|A0A2E0K3M4|A0A2E0K3M4_9GAMM
tr|A0A2G2P569|A0A2G2P569_9RHOB
sp|B0CEK4|TTCA_ACAM1
tr|A0A1H8PL64|A0A1H8PL64_9GAMM
tr|A0A150WJT3|A0A150WJT3_BDEBC
tr|A0A2V8SJ7|A0A2V8SJ7_9BACT
tr|A0A2E0PXG2|A0A2E0PXG2_9GAMM
tr|A0A0W0YHS4|A0A0W0YHS4_9GAMM
tr|A0A0W0YX04|A0A0W0YX04_LEGSP
tr|A0A0W0W1A5|A0A0W0W1A5_9GAMM
tr|A0A2V8N211|A0A2V8N211_9BACT
tr|A0A2D6K8G1|A0A2D6K8G1_9GAMM
tr|A0A1Y0I978|A0A1Y0I978_9GAMM
tr|A0A2E1SSR6|A0A2E1SSR6_9GAMM
tr|A0A2H9SJG2|A0A2H9SJG2_9GAMM
tr|A0A0Q9YJP1|A0A0Q9YJP1_9COXI
tr|F3KCP3|F3KCP3_9GAMM
tr|A0A162H722|A0A162H722_9GAMM
tr|A0A2H0I774|A0A2H0I774_9GAMM
tr|H8MUK0|H8MUK0_CORCM
tr|A0A2A5BA99|A0A2A5BA99_9GAMM
tr|A0A098G0M4|A0A098G0M4_9GAMM
tr|A0A2D7G655|A0A2D7G655_9GAMM
tr|A0A2G6KVY6|A0A2G6KVY6_9GAMM
tr|W5WZF1|W5WZF1_BDEBC
tr|A0A078L0C8|A0A078L0C8_9GAMM
tr|G9ENU4|G9ENU4_9GAMM
tr|A0A2F0AMS3|A0A2F0AMS3_9DELTA
tr|A0A2V8RKE7|A0A2V8RKE7_9BACT
tr|A0A2E1TYN5|A0A2E1TYN5_9GAMM
tr|A0A193LJH7|A0A193LJH7_9GAMM
tr|A0A2E7IRI1|A0A2E7IRI1_9GAMM
tr|A3YAC1|A3YAC1_9GAMM
tr|A0A2E0VGI6|A0A2E0VGI6_9GAMM
tr|A0A2E8CCG6|A0A2E8CCG6_9DELTA
tr|A0A095VPL1|A0A095VPL1_9GAMM
tr|A0A0N8KMU5|A0A0N8KMU5_9CYAN
tr|A0A1G0HAT3|A0A1G0HAT3_9GAMM
tr|A0A2E5Y795|A0A2E5Y795_9GAMM
tr|A0A2S9Y7R6|A0A2S9Y7R6_9DELTA
tr|A0A1G0JMY1|A0A1G0JMY1_9GAMM
tr|A0A1G0G197|A0A1G0G197_9GAMM
tr|A0A1M4ZL39|A0A1M4ZL39_9GAMM
tr|A0A1A8TLI3|A0A1A8TLI3_9GAMM
tr|A0A1I0DVY2|A0A1I0DVY2_9DELTA
tr|A0A1G0Y1I3|A0A1G0Y1I3_9GAMM
tr|A0A084I1J91|A0A084I1J91_9GAMM
tr|A0A2E9EBS9|A0A2E9EBS9_9GAMM
tr|A0A2E3DAL8|A0A2E3DAL8_9GAMM
tr|A0A2D6DEC2|A0A2D6DEC2_9GAMM
tr|A0A1L6MYR5|A0A1L6MYR5_9DELTA
tr|A0A162G8Y7|A0A162G8Y7_BDEBC
tr|A0A1G0IDH1|A0A1G0IDH1_9GAMM
tr|F3L3T9|F3L3T9_9GAMM
tr|A0A2E4YBV6|A0A2E4YBV6_9GAMM
tr|A0A2D7FVG0|A0A2D7FVG0_9GAMM
tr|A0A2E6JDN6|A0A2E6JDN6_9GAMM
tr|F2K4L6|F2K4L6_MARM1
tr|L8M0Y2|L8M0Y2_9CYAN
tr|A0A165I5T6|A0A165I5T6_9GAMM
tr|A0A2E6UQH5|A0A2E6UQH5_9PROT
tr|K2B892|K2B892_9ZZZZ
tr|B6BVC5|B6BVC5_9PROT
tr|A0A1Y0RGR4|A0A1Y0RGR4_9CYAN
tr|A0A2E3WDT3|A0A2E3WDT3_9GAMM
tr|A0A2A4W638|A0A2A4W638_9GAMM
tr|A0A2A4WTK7|A0A2A4WTK7_9GAMM
tr|A0A1Y2ZWN2|A0A1Y2ZWN2_9GAMM

LS|D..D..GKNV|VIRPMAY|CKE|AD|AR|YAEEM..QF|PII|PC..N...|L|CGSQ
LS|D..D..GNNV|VIRPLSY|CS|EKD|IAQ|YAQLK..KF|PII|PC..N...|L|CGSQ
KS|D..N..GKHI|VIRPLSY|SR|EKD|IAE|FAELK..QY|PII|PC..N...|L|CGSQ
LT|D..N..KRN1|VIRPLAY|CKE|AD|IE|YAKIR..EY|PII|PC..N...|L|CGSQ
VT|D..D..GRFR|VIRPLIE|CD|EAR|IAE|YAALB..AF|PII|PC..N...|L|CGSQ
KS|D..K..GDHV|VIRPLAY|CR|EKD|LAR|YAADK..AF|PII|PC..N...|L|CGTQ
RT|D..D..GKHV|VIRPLVY|CKE|NET|IAE|YSIYK..KF|PII|PC..N...|L|CGSQ
LS|D..D..KRN1|VIRPLAY|CR|EKD|INR|YAAFR..QF|PII|PC..N...|L|CGSQ
LS|D..D..GKHI|LIRPMAY|CKE|ODI|IE|YAAIR..EF|PII|PC..K...|L|CGSQ
LS|D..D..KRNV|LIRPLAY|CKE|SD|VAL|FAELK..QF|PII|PC..N...|L|CGSQ
LS|D..D..GKHV|VIRPLY|YCR|ERLI|AQ|WSNFA..QY|PII|PC..N...|L|CGSQ
LS|D..D..GKNI|VIRPLAY|CKE|AD|IAE|FAQLM..EF|PII|PC..N...|L|CGSQ
LS|D..D..KKHI|VIRPLAY|CR|EET|IAE|FAGLR..QF|PII|PC..T...|L|CGNQ
LT|D..N..KKHI|VIRPLVY|CQ|EKD|IAV|YAKEQ..NF|PII|PC..N...|L|CGSQ
RS|D..D..GRNL|VIRPLAY|CR|ETD|IAA|HAHE..GF|PII|PC..N...|L|CGSQ
LS|D..D..GKNI|VIRPLAY|CKE|KDI|QE|FAELM..EF|PII|PC..N...|L|CGSQ
KS|D..N..GKHI|VIRPLAY|SR|EKD|IAE|FSELK..GY|PII|PC..N...|L|CGSQ
KS|D..N..GKHI|VIRPLAY|SR|EKD|IAE|FATLK..DY|PII|PC..N...|L|CGTQ
RS|D..D..GRNT|IIRPLAY|CR|ERD|IAE|FAAEK..NF|PII|PC..D...|L|CGSQ
LS|D..D..GKHI|VIRPLAY|CE|PDI|EAF|FAEAR..EF|PII|PC..N...|L|CGSQ
LS|D..D..LKN1|LIRPLAY|CR|ERD|IAE|FATLM..EF|PII|PC..N...|L|CGSQ
LS|D..D..GKHI|VIRPLAY|CR|EAD|IAE|YAEWR..EF|PII|PC..N...|L|CGSQ
RS|D..D..GRNT|VIRPLSY|CR|EKI|VK|FAAEK..NF|PII|PC..D...|L|CGSQ
RS|D..D..GRNV|VIRPLAY|CS|EKD|IEV|YAQLR..EF|PII|PC..N...|L|CGSQ
LS|D..D..GANV|VIRPLAY|AR|KDI|IAE|YAALR..DF|PII|PC..N...|L|CGSQ
RS|D..D..GANM|VIRPLAY|SR|EKD|IAE|YAALR..EF|PII|PC..N...|L|CGSQ
KS|D..N..GKHI|VIRPLAY|SR|EKD|IAE|FSELK..GY|PII|PC..N...|L|CGSQ
RS|D..D..GQHI|VIRPLAY|CL|EAD|LER|LAER..NY|PII|PC..N...|L|CGSQ
LS|D..N..KKHI|VIRPLAY|VQ|EKD|IMT|FANEQ..AF|PII|PC..T...|L|CGSQ
RS|D..D..GKHI|VIRPLAY|VP|EKY|LER|YAEQM..AF|PII|PC..N...|L|CGSQ
AAD..N..GRHT|VIRPLVY|VE|EGE|IR|FSREQ..QF|PII|V|CC..A..CPV|CG..
LS|D..N..KKHI|VIRPMCY|VQ|EKD|IT|FASEQ..AF|PII|PC..N...|L|CGSQ
LS|D..D..GANV|VIRPLAY|CKE|ED|KAY|AQAK..KF|PII|PC..T...|L|CGSQ
LS|D..D..KKN1|VIRPLCY|VQ|EKD|IK|FAAEK..AF|PII|PC..N...|L|CGSQ
LS|D..N..KKHI|VIRPMCY|VQ|EKD|IT|FATEQ..EF|PII|PC..N...|L|CGSQ
LS|D..D..QKHV|LIRPLAY|CKE|KDI|EK|FAAAR..EF|PII|PC..N...|L|CGSQ
LS|D..D..QKHV|LIRPLAY|CKE|KDI|EK|FAEAR..GF|PII|PC..N...|L|CGSQ
LS|D..N..RQHM|VIRPLAY|CP|EAD|IQ|RYADLR..QF|PII|PC..T...|L|CGSQ
KSN..D..GKHV|VIRPLAY|VP|EQY|LE|QYAGHK..AF|PII|PC..N...|L|CGSQ
KS|D..D..GRNI|LVRLTY|VS|ERD|EAL|ADVW..KF|PII|PC..N...|L|CGSQ
RS|D..A..GTNT|IIRPLAY|CQ|ESE|IAK|YSEER..QF|PII|PC..N...|L|CGSQ
LS|D..D..GENI|IIRPLAY|CA|IDI|KAY|AIKK..AF|PII|PC..T...|L|CGSQ
LS|D..N..KKHI|VIRPMCY|VQ|EKD|IT|FATEQ..AF|PII|PC..N...|L|CGSQ
LS|D..N..KKHM|VIRPLCY|VQ|ERD|IS|FANEE..NF|PII|PC..N...|L|CGSQ
LS|D..N..KKHI|VIRPLCY|VQ|EKD|IA|FAEQ..AY|PII|PC..N...|L|CGSQ
RSN..D..GRNT|VIRPLAY|CR|ERD|IAE|FAAGE..QF|PII|PC..D...|L|CGSQ
LAD..D..GRNV|VIRPLAY|CR|ESD|IEA|YARLR..QF|PII|PC..N...|L|CGSQ
KS|D..D..GRNV|LIRPLAY|CR|EKD|IER|FAKYK..QY|PII|PC..N...|L|CGSQ
XAD..D..KKNM|VIRPLAY|CKE|SD|QAL|AELR..EY|PII|PC..N...|L|CGSQ
LS|D..N..KKHI|VIRPMCY|VQ|EKD|IT|YAKEQ..NY|PII|PC..T...|L|CGSQ
LS|D..N..KKHI|VIRPLSY|CQ|EKD|IAE|YAKLK..EF|PII|PC..N...|L|CGSQ
LS|D..D..KKNV|LIRPLAY|CKE|SD|QT|FSDFK..QF|PII|PC..N...|L|CGSQ
LS|D..D..KKNV|VIRPMAY|CKE|AD|LAE|FAQYK..EF|PII|PC..N...|L|CGSQ
LS|D..D..QSHI|VIRPLVY|CQ|EAD|IAE|FAKLM..AF|PII|PC..N...|L|CGSQ
KS|D..D..GRNV|VIRPLCY|AP|EKI|IQ|FAEAK..QF|PII|PC..D...|L|CGSQ
LS|D..D..KRNV|VIRPMAY|CKE|KDI|SR|YAQLC..DF|PII|PC..N...|L|CGSQ
LS|D..N..KKHI|VIRPMY|VQ|EKD|IA|FATAQ..AF|PII|PC..N...|L|CGSQ
LS|D..D..ARHV|VIRPLFY|CR|EKLI|TEW|SKTR..DH|PII|PC..N...|L|CGSQ
LS|D..D..KDNI|VIRPMAY|CKE|KDI|AQ|YADYK..AF|PII|PC..N...|L|CGSQ
RS|D..D..GRNI|LVRLCY|VS|ERD|IEEL|GAAW..EI|PII|PC..N...|L|CGSQ
LS|D..N..KKHI|VIRPLCY|VQ|ERD|IK|FAEEQ..AY|PII|PC..T...|L|CGSQ
LS|D..N..KKHI|VIRPLSY|VQ|EKD|IA|FANAQ..AF|PII|PC..T...|L|CGSQ
TT|D..D..GRFK|VIRPLIE|CA|EAD|IQD|YAQER..AF|PII|PC..N...|L|CGSQ
RS|D..D..QRNT|IIRPLAY|CQ|EAE|IEA|YAEK..QF|PII|PC..N...|L|CGSQ
LS|D..D..KRNV|VIRPLAY|CKE|SEI|EK|FATLM..QF|PII|PC..D...|L|CGSQ
ISD..D..KKN1|VIRPLVY|CR|ERD|IAF|FAKER..QY|PII|PC..T...|L|CGSQ
LS|D..D..KRN1|IIRPLAY|CR|EKD|IEK|VARDR..AY|PII|PC..N...|L|CGSQ
LS|D..D..GRHM|VIRPLAY|CKE|KDI|EAF|SVMK..EY|PII|PC..N...|L|CGSQ
LS|D..D..QRNI|VIRPLAY|CR|EQD|LED|YAYR..EF|PII|PC..N...|L|CGSQ
LS|D..D..KRNV|VIRPMAY|CKE|KDI|SL|YASLA..KF|PII|PC..N...|L|CGSQ
LS|D..D..GRHV|VIRPLAY|CKE|KDI|LA|YADIK..GF|PII|PC..N...|L|CGSQ
LT|D..D..RRHI|VIRPLAY|CA|EKD|IA|YARYR..EF|PLI|PC..T...|L|CGSQ
ISD..S..KKN1|VIRPMVY|CQ|ETD|IRL|YASEQ..QF|PII|PC..T...|L|CGSQ
LS|D..D..KQHI|VIRPLCY|VQ|EKD|IT|YAKEQ..AY|PII|PC..T...|L|CGSQ
TT|D..D..QRFE|VIRPLIE|CA|ETD|IE|HANWA..SY|PII|PC..N...|L|CGSQ
LS|D..D..GANV|VIRPLAY|CR|ETD|IKO|YAESR..GF|PII|PC..N...|L|CGSQ
LT|D..D..KQHI|VIRPLAY|CQ|EQD|IAS|FAQLM..GF|PII|PC..N...|L|CGNQ
LS|D..D..GKHI|VIRPLAY|CKE|ED|IMF|SVMK..EY|PII|PC..N...|L|CGSQ
LS|D..D..GKHM|VIRPLAY|CKE|KDI|QA|FADMK..AY|PII|PC..N...|L|CGSQ
RS|D..D..GRNT|VIRPLCY|AP|EKI|AQ|FAELK..GF|PII|PC..D...|L|CGTQ
LS|D..N..KKHI|VIRPLCY|VQ|ERD|IA|FAEAB..AF|PII|PC..T...|L|CGSQ
KS|D..D..GDNV|VIRPLAY|CA|EAE|IK|YARLK..QF|PII|PC..N...|L|CGSQ
LS|D..D..SENI|VIRPLAY|CR|EKD|IGR|YAEMC..EF|PII|PC..D...|L|CGSQ
LS|D..D..GENI|LIRPLAY|CR|EKD|IA|RYAEIT..EF|PII|PC..N...|L|CGSQ
LS|D..D..GKHV|VIRPLAF|CKE|SD|IEQ|YSLLK..SF|PII|PC..N...|L|CGSQ
LNQ..K..GEQI|VIRPLTY|CS|EEM|IRQ|FSERM..NF|PII|PC..D...|L|CGMQ
KS|D..D..ERNI|LVRLTY|VS|ERD|IEEL|AAVW..NF|PII|PC..N...|L|CGSQ
LS|D..N..KKN1|LIRPLAY|CQ|ESD|IQ|FANLM..AF|PII|PC..T...|L|CGSQ
LS|D..D..GKNV|IIRPLAY|CKE|SD|IER|FAQAR..AF|PII|PC..N...|L|CGSQ
LS|D..D..KRN1|VIRPLAY|CKE|SEI|RR|FAQLS..EF|PII|PC..N...|L|CGSQ
RS|D..D..GANI|VIRPLAY|CKE|KDI|LAR|FAEMR..EF|PII|PC..N...|L|CGSQ
LS|D..D..KKN1|VIRPLAY|CKE|ETI|RS|YAEMV..GF|PII|PC..N...|L|CGSQ
LS|D..D..GKHV|VIRPLAY|CKE|EDI|EK|FADYK..SF|PII|PC..N...|L|CGSQ
LS|D..D..KQNI|IIRPLAY|CP|ERE|IVR|YANAR..QF|PII|PC..N...|L|CGSQ
QSD..D..GDNI|LIRPLAY|CA|ESD|IQK|YADIK..EF|PII|PC..N...|L|CGSQ
IND..T..GQHI|VIRPLVY|CKE|KDI|LEE|YANIB..IF|PII|PC..N...|L|CGSQ
LS|D..N..KKHI|IIRPLVY|CQ|END|IAA|FAQLM..AF|PII|PC..N...|L|CGSQ
LS|D..D..QTNI|VIRPLAY|IE|EKD|IS|FSKTM..NY|PII|PC..N...|L|CGSQ
LS|D..D..GQHV|VIRPLAY|CS|EHD|IEQ|YAKLR..QF|PII|PC..N...|L|CGSQ
LS|D..D..GANL|VIRPLAY|CR|EKD|IER|YAEIR..SF|PII|PC..N...|L|CGSQ
LT|D..S..KRHI|VIRPMAY|CKE|KDI|KAY|AEQ..QY|PII|PC..N...|L|CGSQ
LS|D..D..KRN1|VIRPLAY|CKE|KDI|SR|YAEIS..NF|PII|PC..N...|L|CGTQ
LS|D..D..KKN1|IIRPLAY|TR|EKD|IER|FAAFK..NF|PII|PC..N...|L|CGSQ

| | | | | | |
|----------------------------------|---------------|-----------|-----------------------|--------|------------|
| tr\|A0A0S2TB27\|A0A0S2TB27_9GAMM | LTD..S..QDHI | VIRPLVY | QEDIAEFAELM..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E3UPR5\|A0A2E3UPR5_9GAMM | LSDD..D..KRN | VIRPLAY | CKELIVRYAKFM..NF | PIIIPC | .D...LCGSQ |
| tr\|A0A0K1PUI2\|A0A0K1PUI2_9DELT | IAQ..D..GN.V | VIRPLAY | CAEEDVAAFAREK..EF | PIIIPC | .D...LCGSQ |
| tr\|A0A2W1MVY8\|A0A2W1MVY8_9FLAO | ETN..D..GRFV | VIRPLAY | VKEDIIRLSEIR..NY | PIIIPC | .N...LCGSQ |
| tr\|A0A2E7LLC8\|A0A2E7LLC8_9GAMM | LSDD..D..GAHV | VIRPLY | YVRERDIARFSGFO..QH | PIIIPC | .N...LCGSQ |
| tr\|A0A1V3PAW7\|A0A1V3PAW7_9GAMM | RSDD..D..GRHV | VIRPLAY | CRSEIEAYALR..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A2A5WDX1\|A0A2A5WDX1_9GAMM | LSDD..D..KRN | VIRPLAY | CKESEISKFSIDL..SF | PIIIPC | .N...LCGSQ |
| tr\|A0A0W0X021\|A0A0W0X021_9GAMM | LSDD..D..KKHI | VIRPMCY | VQERDIAAYATEQ..HF | PIIIPC | .N...LCGSQ |
| tr\|A0A1G0IH91\|A0A1G0IH91_9GAMM | LSDD..D..KKN | VIRPMVY | CQESDIKAFASEQ..QF | PIIIPC | .N...LCGSQ |
| tr\|A0A0C2DGF4\|A0A0C2DGF4_9DELT | TDD..D..QQFQ | VIRPLIE | CAESDIEHTNWA..NY | PIIIPC | .N...LCGSQ |
| tr\|A0A2D5QFH6\|A0A2D5QFH6_9GAMM | LSDD..D..KKN | VIRPLAY | CKETDLAEYSNKM..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E4LJ98\|A0A2E4LJ98_9GAMM | LSDD..D..KRN | VIRPLAY | CKETELKFARLM..RF | PIIIPC | .D...LCGSQ |
| tr\|A0A2E5DC90\|A0A2E5DC90_9GAMM | LSDD..D..GAHV | VIRPLY | YVRERDITRYSEYQ..QH | PIIIPC | .N...LCGSQ |
| tr\|A0A2E5FWR7\|A0A2E5FWR7_9GAMM | LSDD..D..GDNV | VIRPLSY | CAEKDIEKFSRLS..QH | PIIIPC | .N...LCGSQ |
| tr\|A0A1G0IU32\|A0A1G0IU32_9GAMM | LTD..N..KRHV | VIRPLAF | CQEKDIIQYASEQ..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A0F9U4Z6\|A0A0F9U4Z6_9ZZZZ | RSDD..D..GRNV | VIRPLAY | CNERDIEAYARLQ..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E6YYL5\|A0A2E6YYL5_9GAMM | VSD..D..GAHV | VIRPLY | YVRERDIIRWNELR..QF | PIIIPC | .N...LCGTQ |
| tr\|A0A1H1PAT6\|A0A1H1PAT6_9PSED | RSDD..D..GRNV | VIRPLAY | CNESDIAAYAELO..GF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E8C6H5\|A0A2E8C6H5_9GAMM | RSDD..D..GRNV | VIRPLSY | CNEVDIEAYATLQ..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A1H1SJ01\|A0A1H1SJ01_9PSED | LSDD..D..GRNV | VIRPLAY | CNKKDITAYAAAMR..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A1G5P4B8\|A0A1G5P4B8_9PSED | RAD..D..GRNV | VIRPLAY | CNKKDIEAYAVLR..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E0GTV8\|A0A2E0GTV8_9GAMM | LTD..N..KKNV | VIRPMVY | VQEKDIIKIFADEQ..QF | PIIIPC | .N...LCGSQ |
| tr\|A0A139SJ77\|A0A139SJ77_9GAMM | LSDD..D..GRNL | VIRPLACS | CKEKDIIQAYATLK..QF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E3MG92\|A0A2E3MG92_9GAMM | LTD..S..KKHI | VIRPLAY | CQEKDIEFAKLM..AY | PIIIPC | .N...LCGSQ |
| tr\|A0A2G6Q111\|A0A2G6Q111_9BACT | KND..K..GDLV | LIRPLAL | VPKIIIANYAQYI..EY | PIIPA | .G...LCGNQ |
| tr\|B8HNP7\|B8HNP7_CYP4 | LSDD..D..GQHM | VIRPLAY | CAEKDIERYANLR..QF | PLIPC | .Q...LCGSQ |
| tr\|A0A2E8XFZ6\|A0A2E8XFZ6_9GAMM | LSDD..D..KRN | VIRPLAY | CKESEISKFAELI..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A2D8QNY1\|A0A2D8QNY1_9GAMM | LSDD..D..GVNM | VIRPLAY | CRKKDIIARYADLE..EF | PVTPX | .N...LCGSQ |
| tr\|A0A2N1WJ42\|A0A2N1WJ42_9GAMM | LSDD..D..GDN | VIRPLAY | CREODLIRLASLR..GY | PIIIPC | .N...LCGSQ |
| tr\|K2ERR8\|K2ERR8_9ZZZZ | ITN..D..KKLI | VIRPLSY | CQESDIKYAAEQ..NF | PLTSK | .G...LCG.A |
| tr\|A0A0K1XH68\|A0A0K1XH68_9GAMM | LSDD..D..GRNV | VIRPLAY | CKETDIAEYAEFK..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A1H2ES15\|A0A1H2ES15_9PSED | RSDD..D..GRNV | VIRPLAF | CNKKDIAAYALR..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A177QRA8\|A0A177QRA8_9GAMM | LSDD..N..KRHI | VIRPLAY | CQENDIIEYAKEQ..QF | PIIIPC | .N...LCGAQ |
| tr\|A0A254Q4L9\|A0A254Q4L9_9PROT | RSDD..D..GRNI | LLRPLAY | VSERDIEALAADW..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E6SWN3\|A0A2E6SWN3_9FLAO | KTD..D..GKHV | VIRPLAY | CKEKDIEAYSQKL..QF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E9AK57\|A0A2E9AK57_9GAMM | RSDD..D..GENV | VIRPLSY | CSERDIEKYARLN..QY | PIIIPC | .N...LCGSQ |
| tr\|A0A2D7F0H7\|A0A2D7F0H7_9GAMM | LSDD..D..GANV | IIRPLAY | CRKKDITRYADLM..NF | PIIIPC | .N...LCGAQ |
| tr\|A0A2E1W4P8\|A0A2E1W4P8_9FLAO | KTD..N..GKHI | VIRPLAY | CKEKDIEEYSKIM..EF | PIIIPC | .N...LCGTQ |
| tr\|A0A2E5RQ39\|A0A2E5RQ39_9FLAO | KTD..D..GKFT | VIRPLAY | CKEKDIEEYSKLO..KF | PIIIPC | .N...LCGTQ |
| tr\|A0A2E2TWY6\|A0A2E2TWY6_9GAMM | LTD..C..KRHI | VIRPLAY | ISYDIAEYAKQM..AF | PIIIPC | .N...LCGSQ |
| tr\|A0A2D7KKV3\|A0A2D7KKV3_9GAMM | RSDD..D..GEHV | VIRPLAY | CKESDILAYANVR..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A148NAU8\|A0A148NAU8_9GAMM | LSDD..D..KKHI | VIRPLAY | CKEKDIAAYARLM..DF | PIIIPC | .N...LCGSQ |
| tr\|A0A0C1N9Q3\|A0A0C1N9Q3_9CYAN | LSDD..D..GQHI | VIRPLAY | CAESDIEQYANFK..KF | PIVPC | .S...LCGSQ |
| tr\|A0A098LEV0\|A0A098LEV0_9BACT | KTD..N..QEHI | VIRPLAF | CKEKIEKYSVAK..AY | PIIIPC | .N...LCGSQ |
| tr\|A0A1Q7Z4V3\|A0A1Q7Z4V3_9DELT | RSDD..D..GRNV | VIRPLCYA | AAESDIAAFAAEM..KF | PLIPC | .D...LCGSQ |
| tr\|H5SHT9\|H5SHT9_9GAMM | LSDD..D..KQHI | LIRPLAY | CREADIAEYARQR..AF | PIVPC | .T...LCSSQ |
| tr\|I4CAC3\|I4CAC3_DESTA | LAD..D..CQNT | VIRPLVY | VKEDMTGACARL..GV | PILGC | .S.CTYQG |
| tr\|A0A2E8MZV2\|A0A2E8MZV2_9RICK | KTD..K..EGIS | VIRPLYS | IEETITQYAAFO..EW | PIVPC | .N...LCGSQ |
| tr\|A0A140K524\|A0A140K524_9CYAN | LTD..D..KQHI | VIRPLAY | CPKEKETRYANAR..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A1Z9WCJ2\|A0A1Z9WCJ2_9GAMM | LSDD..D..KRN | VIRPLAY | CKEKDIEIRYAEAL..GF | PIIIPC | .N...LCGTQ |
| tr\|V6LCA2\|V6LCA2_9EUKA | .EN..T..SNIS | IIRPLMN | IYEAQIIEFAKIR..QF | PIIKC | .N.CPSEG.D |
| tr\|A0A2W1JZL5\|A0A2W1JZL5_9CYAN | LTD..D..GRHV | VIRPLAY | CPKEDIQRYADLR..QF | PIIIPC | .T...LCGSQ |
| tr\|A0A2E3WDX3\|A0A2E3WDX3_9PROT | RSDD..D..GRNL | LLRPF | FCYVYENEDIDGORIL..SP | PVTPX | .N...LCGSQ |
| tr\|A0A2E5HLE3\|A0A2E5HLE3_9DELT | FSD..D..RRNT | VIRPLAY | CPKEWIEVYAKLR..GF | PIIIPC | .T...LCSTQ |
| tr\|A0A2W5TG65\|A0A2W5TG65_9DELT | KSN..D..GRNT | VIRPLAY | APETIEARFAELM..EF | PIIIPC | .D...LCGSQ |
| tr\|A0A1G0GKM6\|A0A1G0GKM6_9GAMM | LSDD..D..KKNV | IIRPLVY | CQEKDIAAFQKM..AF | PIIIPC | .N...LCGSQ |
| tr\|A0A150AGP8\|A0A150AGP8_9BACT | KTD..D..GKHV | VIRPLAY | CKESDIEVSELR..EY | PIIIPC | .N...LCGSQ |
| tr\|A0A1S1YYD9\|A0A1S1YYD9_9BACT | KTD..D..KQHI | VIRPLAY | CKEKDIEEYAKLK..EF | PIIIPC | .N...LCGSQ |
| sp\|A5EXQ4\|TTCA_DICNV | LSDD..N..KKQI | VIRPLVY | CDKEDIVKYAKLK..AF | PIIIPS | .N...LCGVQ |
| tr\|A0A1G0XP48\|A0A1G0XP48_9GAMM | ISD..N..KKNV | LIRPLCY | VQEKDIEYAKEM..SY | PIIIPC | .T...LCGSQ |
| tr\|A0A1G0L2E0\|A0A1G0L2E0_9GAMM | LTD..D..KKHI | VIRPMVY | CQEKDIAAYAILN..AF | PIVPC | .G...LCNNQ |
| tr\|A0A1G0GM68\|A0A1G0GM68_9GAMM | LSDD..N..KKNV | VIRPLIY | CQENDIIFASQAM..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A1B8TZZ0\|A0A1B8TZZ0_9FLAO | KND..A..GNLV | VLRLP | LSFCKESDIEYTSNHQ..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A2D7K8M6\|A0A2D7K8M6_9FLAO | LID..K..GDLV | VLRLP | LSFCKESDIEYTSRLM..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A2M9DVU6\|A0A2M9DVU6_9DELT | LTD..S..GKHV | VIRPMAY | VGKEDIRYALR..AF | PIITG | .D...FCGTP |
| tr\|A0A2E2WLC4\|A0A2E2WLC4_9GAMM | LTD..D..KQHI | VIRPLAY | CQENDIIRYAMEQ..AF | PIIIPC | .N...LCGTQ |
| tr\|A0A1J0KT95\|A0A1J0KT95_9GAMM | LSDD..D..KRN | VIRPLFVS | ETETSEYAKLK..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A1Q2SN26\|A0A1Q2SN26_9GAMM | LSDD..N..KQHI | VIRPLAY | CRKKDITIYAKIK..DF | PIIIPC | .N...LCGSQ |
| tr\|A0A1F9PKZ9\|A0A1F9PKZ9_9DELT | LAD..N..GETT | VIRPLVY | VAEADITFARNL..AL | PVVCC | .C.CPVCG |
| tr\|A0A2U2J834\|A0A2U2J834_9FLAO | KND..T..GNLV | VLRLP | LSFCRESDIEIYARFM..NF | PIIIPC | .N...LCGSQ |
| tr\|U9W6P5\|U9W6P5_9CYAN | RTD..D..GKHI | VIRPLAY | CPENDIARYARYR..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A1E7HZ03\|A0A1E7HZ03_9DELT | LAD..N..GKHT | VIRPLVY | VAEKIEYSRLO..KF | PIVHC | .S.CPVVG |
| tr\|A2U287\|A2U287_9FLAO | KND..A..GDLV | VLRLP | LVNCSDEIEESNYK..NY | PIIIPC | .N...LCGSQ |
| tr\|A0A1G0MC79\|A0A1G0MC79_9DELT | LAD..N..GVIT | VIRPLVY | VAEDDIISFSNOV..SL | PVVCC | .S.CPACG |
| tr\|A0A0M9CHH7\|A0A0M9CHH7_9FLAO | KND..A..GDLV | VLRLP | LVNCSDEIDEMFSNYR..NY | PIIIPC | .N...LCGSQ |
| tr\|A0A1V5JXW0\|A0A1V5JXW0_9DELT | RSN..D..GNNL | VIRPLAY | CSAEEDVKKYFDFL..EVEP | VIN | .D.CITH..R |
| tr\|A0A2E1TKX3\|A0A2E1TKX3_9PROT | LSDD..D..KKNV | VIRPLTY | CKEEDLGEYARLH..KF | PIIIPC | .N...LCGSQ |
| tr\|A0A2E4SAB6\|A0A2E4SAB6_9FLAO | KID..Q..GDLV | VIRPLAY | CKEESISYSQWK..NY | PIIIPC | .N...LCGSQ |
| tr\|A0A258F7U7\|A0A258F7U7_9FLAO | KND..A..GDLI | ILRLP | LVNCSDEIEEYSNAM..QF | PIIIPC | .N...LCGSQ |
| tr\|A0A0A8WQ54\|A0A0A8WQ54_9DELT | LAD..N..GVTT | VIRPLVY | VSAEQIEFARLK..SF | PVVCC | .R.CPACG |
| tr\|X5JQR9\|X5JQR9_9NOST | LND..G..GKHI | VIRPLAY | CPKEDIIQRYAHMK..KF | PIIIPC | .N...LCGSQ |
| tr\|A0A1Z8QQJ8\|A0A1Z8QQJ8_9BACT | QIQ..A..EGLQ | VIRPLF | SVYEDWIADFVQAQ..GW | PIIAC | .N...LCGSQ |
| tr\|A0A2H1E976\|A0A2H1E976_9FLAO | KND..A..GDLI | VLRLP | LVNCSDEIDIASYANAM..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A1Z4RSZ1\|A0A1Z4RSZ1_9CHRO | LSDD..D..KQNV | VIRPLVY | CAEKDIIQYALVR..DF | PIIIPC | .N...LCGSQ |
| tr\|A0A1M7NRR99\|A0A1M7NRR99_9FLAO | KND..A..GDLV | VLRLP | LVNCSDEIDIIYAAQY..EF | PIIIPC | .N...LCGSQ |
| tr\|A0A1G0HBX4\|A0A1G0HBX4_9GAMM | LSDD..N..KRHI | LIRPLAY | CQEKDIIVAYAEQ..AF | PIIIPC | .T...LCGSQ |
| tr\|A0A1G0WYX2\|A0A1G0WYX2_9GAMM | LSDD..N..KKHI | VIRPLCY | IQEKDIIISFSKDE..AY | PIIIPC | .N...LCGSQ |
| tr\|A0A2E2NQ57\|A0A2E2NQ57_9DELT | RSQ..D..GRNT | VIRPLAY | CSAEEDVAAAYETV..GY | PIIIPC | .D...LCGTQ |
| tr\|A0A2E7CJC5\|A0A2E7CJC5_9PROT | HSDD..D..GRNV | VIRPLVY | CDKESDIAALSEEL..SF | PIIIPC | .D...LCGSQ |
| tr\|A0A1L4BT26\|A0A1L4BT26_9GAMM | ITK..D..GENT | VIRPMVLVQ | ERDLIEFAKEQ..DF | PIIIPC | .N...LCGSQ |
| tr\|A0A1X1BF32\|A0A1X1BF32_9GAMM | ITQ..D..SENT | VIRPMVLVQ | ERDLIEFAKEE..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A1J0KVR2\|A0A1J0KVR2_9GAMM | VTD..D..GENV | VIRPMVY | VQERDLIEFAKEE..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A2J6JE04\|A0A2J6JE04_9DELT | LAD..N..GRQT | VIRPLVY | IEEKDIAAFCSEN..TY | PVVCC | .S.CPDEA |
| tr\|A0A1F8V7G5\|A0A1F8V7G5_9COXI | LSDD..N..KKNV | VIRPLAF | CQEKDIIITFAKEQ..AF | PIIIPC | .N...LCGSQ |
| tr\|A0A1G1FBX6\|A0A1G1FBX6_9BACT | RAD..D..GRSV | VIRPLVY | VPKEDIVFAAEA..GF | PVTC | .A.CPFCG |
| tr\|A0A1G0E7F6\|A0A1G0E7F6_9GAMM | LTD..D..KRHI | VIRPLAY | CQEKDIIKYAAEQ..NF | PTIPC | .G...ACSNQ |
| tr\|A0A2E2TQ02\|A0A2E2TQ02_9BACT | QIQ..V..GDLQ | VIRPLF | SVHEDWIADFVQAQ..GWS | PIIPC | .N...LCGSQ |
| tr\|A0A1G0EEH5\|A0A1G0EEH5_9GAMM | LTN..D..RRHI | VIRPLAY | CQEKDVEKYALEQ..NF | PIIIPC | .G...LCSNQ |
| tr\|A0A1F3U044\|A0A1F3U044_9PROT | RSDD..D..GRNV | VIRPLIY | VPKELMELAEIW..NF | PIIIPC | .N...LCGSQ |
| tr\|A0A2T5R4N6\|A0A2T5R4N6_9DELT | LAD..N..GETT | VIRPLVY | VAEERDIIITFSAMN..EY | PVVCC | .R.CPVCG |
| tr\|A0A2D4SSF2\|A0A2D4SSF2_9DELT | LSDD..D..ERN | VIRPLAY | CSAEEDIQALSQEC..AF | PIIIPC | .N...LCGSQ |
| tr\|A0A2N6FFT5\|A0A2N6FFT5_9DELT | LAD..N..GRHT | VIRPLVY | VAEKDIIIRFAGEQ..EF | PIIIPC | .A.CPVCG |
| tr FOXZP6 FOXZP6_AURAN | VAS..R...GVD | VVRPLMY | AAEADLILAYADAM..AF | PILPC | .N...LCGSQ |

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|----|-------------|--------------|-------|
| tr | A0A1G0M5C8 | A0A1G0M5C8 | 9DELT |
| tr | A0A099Y2Q8 | A0A099Y2Q8 | 9FLAO |
| tr | A0A1F3QP09 | A0A1F3QP09 | 9BACT |
| tr | A0A2N6GF142 | A0A2N6GF142 | 9DELT |
| tr | A0A2A4JYW7 | A0A2A4JYW7 | 9FLAO |
| tr | A0A1G0H818 | A0A1G0H818 | 9GAMM |
| sp | Q3A6S7 | TTCA_PELCD | |
| tr | A0A1H3VRW5 | A0A1H3VRW5 | 9DELT |
| sp | Q6MLE7 | TTCA_DBEBA | |
| tr | A0A2N6GE4U5 | A0A2N6GE4U5 | 9DELT |
| tr | A0A1E7IG50 | A0A1E7IG50 | 9DELT |
| tr | A0A1G0G5V6 | A0A1G0G5V6 | 9GAMM |
| tr | A0A2M7ZW17 | A0A2M7ZW17 | 9GAMM |
| sp | Q2A3F9 | TTCA2_FRATH | |
| tr | I2AZ39 | I2AZ39_FRANT | |
| tr | A0A097EM44 | A0A097EM44 | 9GAMM |
| tr | A0A1G0GG76 | A0A1G0GG76 | 9GAMM |
| tr | A0A0B5BJ72 | A0A0B5BJ72 | 9DELT |
| sp | Q39QCS5 | TTCA_GEOGM | |
| tr | A0A0C1TS20 | A0A0C1TS20 | 9DELT |
| tr | A0A1G5MEY4 | A0A1G5MEY4 | 9DELT |
| tr | A0A1GH814 | A0A1GH814 | 9BACT |
| tr | A0A1MG10EA | A0A1MG10EA | MALRU |
| sp | A9KE14 | TTCA_COXBN | |
| tr | E8WQ56 | E8WQ56_GEOS8 | |
| tr | A0A1G0M695 | A0A1G0M695 | 9DELT |
| tr | A0A217SED0 | A0A217SED0 | 9FLAO |
| tr | K9RJ13 | K9RJ13_9CYAN | |
| tr | A0A1V5GZ62 | A0A1V5GZ62 | 9DELT |
| tr | A0A1Q3SMU5 | A0A1Q3SMU5 | 9GAMM |
| tr | A0A192X0U1 | A0A192X0U1 | 9BACT |
| tr | A0A1E7HUG3 | A0A1E7HUG3 | 9DELT |
| tr | A0A2G1ZLV9 | A0A2G1ZLV9 | 9COCI |
| tr | A0A258VXM1 | A0A258VXM1 | 9PROT |
| tr | A0A1G9TDQ4 | A0A1G9TDQ4 | 9DELT |
| tr | A0A1L3GPX7 | A0A1L3GPX7 | 9DELT |
| tr | A0A2W4K8M9 | A0A2W4K8M9 | 9BACT |
| tr | B7G797 | B7G797_PHATC | |
| sp | A5GBX4 | TTCA_GEOUR | |
| sp | B9M1Y2 | TTCA_GEOFD | |
| tr | A0A2N6BQY4 | A0A2N6BQY4 | 9DELT |
| tr | A0A1W9U133 | A0A1W9U133 | 9DELT |
| tr | Q1K2G5 | Q1K2G5_DESAB | |
| tr | A0A2N6ESB2 | A0A2N6ESB2 | 9DELT |
| tr | A0A1Y6B5V3 | A0A1Y6B5V3 | 9PROT |
| tr | A0A2E3NDA3 | A0A2E3NDA3 | 9DELT |
| tr | A0A2D7NNW1 | A0A2D7NNW1 | 9BACT |
| tr | A0A0SB8FY2 | A0A0SB8FY2 | 9PROT |
| tr | A0A2E8HZL3 | A0A2E8HZL3 | 9PROT |
| tr | A0A2G2L3Z8 | A0A2G2L3Z8 | 9GAMM |
| tr | A0A2D4RZ44 | A0A2D4RZ44 | 9GAMM |
| tr | A0A0D6ETW7 | A0A0D6ETW7 | 9PROT |
| tr | A0A2GG8V8 | A0A2GG8V8 | 9GAMM |
| tr | A0A2H9SMD1 | A0A2H9SMD1 | 9GAMM |
| tr | A0A2E9JDQ9 | A0A2E9JDQ9 | 9GAMM |
| tr | A0A2E6EJ87 | A0A2E6EJ87 | 9RICK |
| tr | A0A2E7CSE6 | A0A2E7CSE6 | 9FLAO |
| tr | A0A2I2DP53 | A0A2I2DP53 | 9FLAO |
| tr | A0A1EM6CGK2 | A0A1EM6CGK2 | 9FLAO |
| tr | A0A2E4VOZ3 | A0A2E4VOZ3 | 9FLAO |
| tr | A0A2S7WMD7 | A0A2S7WMD7 | 9FLAO |
| tr | A0A1YOMUY7 | A0A1YOMUY7 | 9FLAO |
| tr | A0A1B8U105 | A0A1B8U105 | 9FLAO |
| tr | A0A2E3Y167 | A0A2E3Y167 | 9FLAO |
| tr | A0A1L4BS83 | A0A1L4BS83 | 9GAMM |
| tr | A0A246Q4W5 | A0A246Q4W5 | 9BURK |
| tr | W8X665 | W8X665_CASDE | |
| tr | A0A2U1LC90 | A0A2U1LC90 | 9BURK |
| tr | W0PLA6 | W0PLA6_9BURK | |
| tr | A0A0K8P592 | A0A0K8P592 | IDESA |
| tr | A0A225MGV7 | A0A225MGV7 | 9BURK |
| tr | A0A1W6Z3Y4 | A0A1W6Z3Y4 | 9BORD |
| tr | A0A2M9GTQ4 | A0A2M9GTQ4 | 9BURK |
| tr | A0A261TJ55 | A0A261TJ55 | 9BORD |
| tr | A0A1M5TG54 | A0A1M5TG54 | 9BURK |
| tr | V8FR17 | V8FR17_9BURK | |
| tr | A0A261S3A1 | A0A261S3A1 | 9BORD |
| tr | A0A157L810 | A0A157L810 | 9BORD |
| tr | A0A261W8G2 | A0A261W8G2 | 9BORD |
| tr | F4GTM2 | F4GTM2_PUSST | |
| tr | A0A1F4NDN1 | A0A1F4NDN1 | 9BURK |
| tr | A0A1H8E7G5 | A0A1H8E7G5 | 9BURK |
| tr | A0A2X4JT79 | A0A2X4JT79 | BORPP |
| tr | A0A146ATC2 | A0A146ATC2 | 9BORD |
| tr | A0A193GK23 | A0A193GK23 | 9BORD |
| tr | A0A1P8JSG9 | A0A1P8JSG9 | 9BURK |
| tr | A0A1F9FMJ1 | A0A1F9FMJ1 | 9DELT |
| tr | A0A0Q8M6U1 | A0A0Q8M6U1 | 9GAMM |
| tr | A0A2M9E118 | A0A2M9E118 | 9GAMM |
| tr | A0A2W4TF58 | A0A2W4TF58 | 9GAMM |
| tr | A0A023NWG5 | A0A023NWG5 | 9GAMM |
| tr | A0A0G9GZ28 | A0A0G9GZ28 | 9GAMM |
| tr | A0A0U1PC50 | A0A0U1PC50 | 9GAMM |
| tr | A0A1E4PK74 | A0A1E4PK74 | 9GAMM |
| tr | A0A1E4NQ34 | A0A1E4NQ3 | |

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|----------|------|--------------|------|
| LAD..N.. | GVIT | VIRPLVYLA | EED |
| KND..A.. | GDLI | VLRPLAFCK | ESD |
| TTD..D.. | GRFE | VIRPLAYCK | EET |
| VAD..N.. | GRHT | VIRPLVVF | ESET |
| LSD..S.. | GEHT | VIRPLAFCK | EET |
| LSD..N.. | KKHI | VIRPMVYQ | EAD |
| LAD..N.. | GQHT | VIRPMVYVE | ESD |
| LAD..N.. | GKHT | VIRPLVYTE | ETET |
| KSD..D.. | ERNI | LVRPLCYVS | ERD |
| AAD..N.. | GRHT | VIRPLVYVE | EGD |
| LAN..N.. | GKQT | VIRPLVYVE | EED |
| ISD..S.. | KKNI | VIRPMIYQ | EED |
| LSD..N.. | KKHI | VIRPMSYQ | EED |
| LSD..D.. | KRNI | VIRPLAFVS | EKET |
| LSD..D.. | KRNI | VIRPLAFVS | EKET |
| LSD..D.. | KRNI | VIRPLAFVT | EKET |
| LSD..N.. | KKHI | VIRPMVYQ | EAD |
| LAD..N.. | GETT | VIRPLVYVE | ERD |
| LAD..N.. | GATT | VIRPLVYVE | ERD |
| LAD..N.. | GETT | VIRPLVYVE | ERD |
| VTR..K.. | GDLT | VVRPMAFVA | EGD |
| RAD..D.. | GRNI | VIRPLVYVP | EED |
| LAD..N.. | GKQT | VIRPLVYVE | EAD |
| LSD..N.. | KRHV | LIRPLAYCK | ERD |
| LAD..N.. | GVTT | VIRPLVYVP | EKET |
| LAD..N.. | GVTT | VIRPLVYVP | EKET |
| KND..A.. | GDLI | VLRPLALCK | ESD |
| KSD..D.. | GENT | VIRPLAYCS | EET |
| VSN..D.. | GRNR | VIRPLAYCKLIT | VE |
| LSD..N.. | QRHI | VIRPLSYQ | EAD |
| TTN..D.. | ERYD | VIRMIIEG | ESL |
| LAD..N.. | GRHT | VIRPLVYVE | ERL |
| LTD..S.. | KKQV | VIRPMVYQ | EKDI |
| ISD..E.. | GTHT | VVRPLCYVK | EED |
| AAD..N.. | GRHT | VIRPLVYVE | EQD |
| QAD..N.. | GRHT | VIRPLVYVE | ERD |
| VAD..D.. | KRNI | VIRPLVYVF | EED |
| TSQ..R.. | GSLA | VMRPLQSM | ETD |
| LAD..N.. | GLTT | VIRPLVYVP | EED |
| LAD..N.. | GLTT | VIRPLVYVS | EED |
| SAD..D.. | GVNT | VIRPLCRVF | EAD |
| QAD..N.. | GKHT | VIRPLVYVE | EKMI |
| LAD..N.. | GEQT | VIRPLVYVE | HLI |
| LAD..N.. | GEQT | VIRPLVYVE | EPLI |
| KSD..D.. | GRNI | VIRPLVYVP | EKMI |
| ESD..D.. | GRNV | VIRPMAEVA | EAD |
| QIK..T.. | EDLY | VIRPLFSVQ | EDW |
| LTN..D.. | KHHI | VIRPLAYCQ | ESD |
| FSD..D.. | GRNT | IIRPLAYIP | EQW |
| KSD..D.. | GRNT | IIRPLAYAK | ESD |
| LSD..D.. | KRNI | VIRPLAYCK | ESET |
| ISN..D.. | SKNI | IIRPLAYCS | EKET |
| TSD..D.. | GRHV | VIRPLAYCA | EED |
| LSD..N.. | KKHI | VIRPLCYVQ | EKET |
| LSD..D.. | KRNV | VIRPLAYSK | EED |
| RSD..D.. | GRNT | VIRPLIGCY | EREL |
| KID..K.. | GDLV | VIRPLSFCK | ENET |
| KND..A.. | GDLI | ILRPLAFCK | END |
| KND..A.. | GDLV | ILRPLAFCK | ESD |
| LID..K.. | GDLM | VLRPLSYCK | ESD |
| KND..A.. | GDLV | VLRPLAFCK | ESD |
| RND..A.. | GDIV | VLRPLAFCN | ESD |
| KND..A.. | GDLA | VLRPLAFCK | ESD |
| LID..K.. | RDLI | VIRPLAYCK | EKET |
| LSD..D.. | KRNI | VIRPLAFVS | EKET |
| VSD..D.. | GRHT | IIRPLAYIE | ESD |
| VSD..N.. | GEHV | IIRPLAYVR | EKDI |
| MSD..D.. | GKNI | VIRPLAYVA | EKDI |
| VSD..D.. | GRHT | VIRPLAYIA | EKDI |
| VSD..D.. | GRHV | VIRPLAYVA | ETD |
| VSD..D.. | GKHV | VIRPLAYIP | EQD |
| VSD..D.. | GRHT | VIRPLAYIP | EAEM |
| VSD..D.. | GRHT | VIRPLAYVP | ETD |
| VSD..D.. | GRHT | VIRPLAYVP | ETD |
| MSD..D.. | GQHI | VIRPLAYVP | EKDI |
| VSD..D.. | GKHT | VIRPLAYVT | EKDI |
| VSD..D.. | GRHT | IIRPLAYIQ | ESD |
| VSD..D.. | GRHT | VIRPLAYVP | ERD |
| VSD..D.. | GRHT | VIRPLAYVP | ESD |
| MSD..D.. | GKHI | VIRPLAYIP | EKDI |
| VSD..N.. | GEFM | VIRPLAYVP | EKDI |
| VSD..N.. | GEFM | VIRPLAYVK | EAD |
| VSD..D.. | GRHT | VIRPLAYVP | ESD |
| VSD..D.. | GRHT | VIRPLAYVA | ETD |
| VSD..D.. | GRHT | VIRPLAYVP | ETD |
| VSD..D.. | GRHI | VIRPLAYVA | EKDI |
| TSD..D.. | GKLE | VIRPLIDVA | EAE |
| RSD..D.. | GRHV | VIRPLAYCR | EDD |
| LSD..D.. | GRHV | VIRPLAYVR | EDD |
| LSD..D.. | GAHV | VIRPLATVR | EAD |
| RSD..D.. | GRHV | VIRPLAYCK | EAD |
| RSD..D.. | GRHV | VIRPLAYCR | ESD |
| RSD..D.. | GKHV | VIRPLAYCR | ESD |
| RSD..D.. | GRHV | VIRPLAYCK | ESD |
| LSD..D.. | GRHV | VIRPLAYCR | EDE |
| QSD..N.. | GKNC | VIRPLSYVR | ERD |
| RSD..D.. | GQHI | VIRPLAYVA | EAK |
| RSD..D.. | GRHV | VIRPLAYCR | END |
| RSD..D.. | GRHI | VIRPLAYCR | ESD |
| HSD..D.. | GRHI | VIRPLAYVA | EAD |
| RSD..D.. | GRNV | VIRPLAYCS | EAD |
| LSD..D.. | GQHL | VIRPLAYCP | ESL |
| LSD..D.. | SSNI | VIRPLAYCS | EAD |

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|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|
| E | F | S | R | L | A | . | K | L | P | V | V | C | . | C | . | C | P | V | C | G | |
| E | E | Y | S | G | Y | M | . | N | F | P | I | P | C | . | N | . | . | L | C | G | |
| E | E | Y | S | D | Y | N | . | K | F | P | I | P | C | . | N | . | . | L | C | G | |
| E | A | F | A | E | G | N | . | Q | I | P | T | V | C | . | S | . | C | A | F | A | |
| I | A | I | A | N | D | R | . | K | F | P | I | P | C | . | N | . | . | L | C | G | |
| K | A | F | A | S | E | Q | . | F | P | I | P | C | . | T | . | . | L | C | G | | |
| K | A | A | F | A | E | N | . | G | L | P | A | P | C | . | G | . | C | P | E | E | |
| Q | R | F | S | N | A | F | . | H | F | P | I | V | N | C | . | S | . | C | P | V | |
| E | E | L | A | A | E | V | . | A | F | P | V | P | C | . | N | . | . | L | C | G | |
| E | E | R | S | R | Q | H | . | Q | M | P | V | P | C | . | A | . | C | P | V | C | |
| E | E | S | S | R | A | V | . | N | Y | P | I | V | C | . | V | . | C | P | V | A | |
| K | I | T | Y | L | R | E | Q | . | F | P | I | P | C | . | T | . | . | L | C | G | |
| K | D | Y | A | R | E | Q | . | Q | F | P | I | P | C | . | T | . | . | L | C | G | |
| L | E | Y | S | Q | L | K | . | E | F | P | I | P | C | . | N | . | . | L | C | G | |
| L | E | Y | S | Q | L | K | . | N | F | P | I | P | C | . | N | . | . | L | C | G | |
| L | E | Y | S | Q | L | K | . | D | F | P | I | P | C | . | N | . | . | L | C | G | |
| K | S | F | A | S | E | Q | . | F | P | I | P | C | . | N | . | . | L | C | G | | |
| I | P | F | A | R | G | N | . | R | F | P | V | V | C | . | C | . | C | P | V | C | |
| I | P | F | A | R | E | N | . | S | F | P | V | V | C | . | C | . | C | P | V | C | |
| I | P | F | A | R | E | N | . | R | F | P | V | V | C | . | C | . | C | P | V | C | |
| L | R | Y | L | R | L | A | . | G | Y | T | A | P | R | . | D | . | . | L | C | G | |
| L | R | Y | A | S | L | A | . | G | F | P | V | T | C | . | A | . | C | P | S | C | |
| E | S | S | R | L | I | . | E | Y | P | L | I | C | . | S | . | C | P | V | A | G | |
| I | K | Y | A | M | E | Q | . | F | P | L | I | P | C | . | N | . | . | L | C | G | |
| I | P | F | S | R | N | N | . | R | F | P | V | V | C | . | C | . | C | P | V | C | |
| V | P | F | S | R | N | N | . | R | F | P | V | V | C | . | C | . | C | P | V | C | |
| E | V | Y | A | Q | H | M | . | D | F | P | I | P | C | . | N | . | . | L | C | G | |
| Q | S | Y | A | S | C | M | . | K | F | P | I | P | C | . | N | . | . | L | C | G | |
| K | A | Y | S | F | K | . | D | V | E | P | V | S | C | . | S | . | C | M | I | . | |
| E | Y | A | K | L | K | . | Q | F | P | I | P | C | . | N | . | . | L | C | G | | |
| A | E | H | A | S | A | . | G | Y | P | I | L | P | C | . | N | . | . | L | C | G | |
| A | E | F | S | Y | A | N | . | D | F | P | T | I | A | C | . | A | . | C | P | A | |
| A | Y | A | E | E | Q | . | K | F | P | I | P | C | . | N | . | . | L | C | G | | |
| E | I | B | L | K | S | K | . | D | F | P | I | P | C | . | N | . | . | L | C | G | |
| I | S | F | T | R | A | N | . | D | F | P | I | I | C | . | A | . | C | P | V | C | |
| I | S | E | F | S | Y | A | N | . | Q | L | P | T | I | A | C | . | A | . | C | P | A |
| I | T | Y | A | L | Q | . | K | F | P | I | P | I | C | . | V | . | C | P | V | S | |
| I | P | F | S | A | H | L | . | N | F | P | I | L | P | C | . | N | . | . | L | C | |
| I | P | F | S | R | N | N | . | R | F | P | V</ | | | | | | | | | | |

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|--------------------------------|----|---|---|------|---------|----|----|----|-----|------|------|----|-----|-----|----|---|---|------|------|
| tr A0A099CZD4 A0A099CZD4_9GAMM | RS | D | D | GRHV | VIRPLAY | CR | ER | DI | EA | YAE | EQ | GF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A0S8FJD6\|A0A0S8FJD6_9GAMM | RS | D | D | GRHI | VIRPLAY | CR | ER | DI | GR | YAR | AR | DF | PVI | PC | N | N | L | CGSQ | |
| tr\|A0A2E2VRK2\|A0A2E2VRK2_9GAMM | LD | D | D | RRHI | VIRPLAY | AK | EV | DI | AE | YAE | EAK | AF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A2W4RZH5\|A0A2W4RZH5_9PROT | RE | D | D | GRHI | VIRPLAY | VP | ER | DI | AR | YAA | AR | GF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A1V4GN33\|A0A1V4GN33_9GAMM | LD | D | D | GQNV | LIRPLAY | VE | ED | DI | IK | YAR | YK | DF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A211RJX7\|A0A211RJX7_9GAMM | LD | D | D | GQNV | LIRPLAY | VE | ED | DI | IK | YAN | YK | QF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A2K0XWS5\|A0A2K0XWS5_9GAMM | LD | D | D | KQNV | LIRPLAY | VA | ED | DI | IK | YAN | YK | KF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A2J9E0W4\|A0A2J9E0W4_9GAMM | LD | D | D | KQNI | LIRPLAY | VE | ED | DI | IK | YAR | YK | EF | PII | PC | N | N | L | CGSQ | |
| tr\|A0YCA3\|A0YCA3_9GAMM | RS | N | D | GRNV | VIRPLAY | CK | ED | DI | IA | LA | AEHR | EF | PII | PC | N | N | L | CGSQ | |
| tr\|F3LGC1\|F3LGC1_9GAMM | LD | D | D | KRNI | IIRPMAF | CR | ES | DI | AR | YAV | YQ | QF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A2G6D109\|A0A2G6D109_9PROT | LD | D | D | KRNI | VIRPMAY | CR | ER | DI | KR | FAD | LK | NY | PII | PC | S | S | L | CGSQ | |
| tr\|L2F7Z8\|L2F7Z8_9GAMM | LD | D | D | EQNV | LIRPLAY | VE | ED | DI | IK | YAN | YK | QF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A1T0CIB6\|A0A1T0CIB6_9GAMM | LD | D | D | EQNV | LIRPLAY | VE | ED | DI | IK | YAR | YK | QF | PVI | PC | G | G | L | CGSQ | |
| tr\|A0A1Q3YDX0\|A0A1Q3YDX0_9BURK | VS | D | D | GRHV | VIRPLAY | VK | ED | DI | AA | YA | QWR | RF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A2I2KGJ9\|A0A2I2KGJ9_9PROT | VS | D | D | GRNV | VIRPMAY | CS | ED | DI | AA | WA | GVR | GF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A059KNT0\|A0A059KNT0_9BURK | VS | D | D | GKHT | VIRPLAY | VA | ED | DI | ER | WA | AHR | QF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A2D9EMR9\|A0A2D9EMR9_9BURK | KS | S | D | GKHI | VIRPLAY | LP | ED | DI | IA | YAK | LK | EF | PII | PC | S | S | L | CGSQ | |
| tr\|D5WYLO\|D5WYLO_THIK1 | VS | D | D | GKHV | VIRPLAY | VE | ED | DI | ER | WA | ELR | AF | PLI | PC | T | T | L | CGSQ | |
| tr\|A0A2N4UHD8\|A0A2N4UHD8_9BURK | AS | D | D | GKHV | VIRPLAY | VT | ED | DI | IA | YSA | LK | QF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A231HMA8\|A0A231HMA8_9BURK | KD | S | N | GKHI | VIRPLAY | VP | ED | DI | IA | YAK | LK | EF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A127PZQ3\|A0A127PZQ3_9BURK | QD | S | D | GKQI | VIRPLAY | VK | ED | DI | IR | YAE | VK | QF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A1L5XXU0\|A0A1L5XXU0_9XANT | RS | D | D | GQHV | VIRPLAY | VR | ED | DI | AA | YA | QAR | QF | PII | PC | N | N | L | CGSQ | |
| tr\|E6PW05\|E6PW05_9ZZZZ | VS | D | D | GRHI | VIRPLAY | VE | ED | DI | VR | WA | AHR | QF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A259PCA8\|A0A259PCA8_9BURK | VS | D | D | GRHI | VIRPLAY | VE | ED | DI | QR | WA | DIR | AF | PII | PC | T | T | L | CGSQ | |
| tr\|J3D2W3\|J3D2W3_9BURK | QD | S | D | GKQI | VIRPLAY | VK | ED | DI | TR | YAE | VK | EF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A1C3H6K4\|A0A1C3H6K4_9GAMM | QD | S | D | GAHI | VIRPLAY | CD | ER | DI | AK | YAE | WR | QF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A1Q3XG69\|A0A1Q3XG69_9BURK | VS | D | D | GRHT | VIRPLAY | IK | ED | DI | IA | YAW | QK | AF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A2V1K2N5\|A0A2V1K2N5_9BORD | VS | D | D | GRHT | VIRPLAY | VV | ED | DI | IA | YAD | WK | AF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A0G3BIT1\|A0A0G3BIT1_9BURK | VS | D | D | GKHV | VIRPLAY | VN | ED | DI | ER | WA | AHR | KF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A2U2N809\|A0A2U2N809_9GAMM | RS | Q | D | GDNV | VIRPLAY | VP | ER | DI | TY | ER | YAE | RM | QF | PII | PC | D | D | L | CGSQ |
| tr\|A0A1U9K1B5\|A0A1U9K1B5_9BURK | QD | S | N | GQHI | VIRPLAY | VA | ED | DI | IA | YAK | LK | EF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A272EZ66\|A0A272EZ66_9RHOO | RS | D | D | GRHT | VIRPLAY | CA | ED | DI | VR | WA | QHR | EY | PII | PC | N | N | L | CGSQ | |
| tr\|C3X5M8\|C3X5M8_OXAFO | KT | D | D | GKHI | VIRPLVY | VK | ED | DI | ER | FAD | IQ | QY | PLF | PC | N | N | L | CGAK | |
| tr\|A0A2W4M0X6\|A0A2W4M0X6_9PROT | RE | S | D | GRHV | VIRPLAY | VA | ED | DI | ER | YAR | AR | AF | PLI | PC | S | S | L | CGSQ | |
| tr\|A0A2G4J906\|A0A2G4J906_9BURK | VS | D | N | GKHT | VIRPLAY | IQ | ED | DI | IA | YAD | WK | QF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A1J4S131\|A0A1J4S131_9BURK | VS | D | D | GGHV | VIRPLAY | VA | ED | DI | TA | WA | AQR | QF | PII | PC | S | S | L | CGSQ | |
| sp\|A1WHW6\|TTCA_VERTI | VS | D | D | GQHV | VIRPLAY | VA | ED | DI | TR | WA | AQR | NF | PII | PC | N | N | L | CGSQ | |
| tr\|E6UVL9\|E6UVL9_VARPE | VS | D | D | GKHI | VIRPLAY | VA | ED | DI | VR | WA | QHR | EF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A2X1UQ14\|A0A2X1UQ14_9BURK | LD | S | N | GKHT | VIRPLAY | VA | ES | DI | IK | FA | ELQ | NF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A1J1E0T5\|A0A1J1E0T5_LYSEN | LD | S | D | GRHV | VIRPLAY | VR | ED | DI | VD | YAA | AR | QF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A0S4P2H4\|A0A0S4P2H4_9BURK | LD | S | D | GKHM | VIRPMAY | VK | ED | DI | SE | RYA | EVK | QF | PII | PC | D | D | L | CGSQ | |
| tr\|R7I1J5\|R7I1J5_9BURK | RS | D | D | GQHV | IIRPLAY | VH | ES | DI | TR | KWA | QIQ | GY | PVI | PC | N | N | L | CGFA | |
| tr\|F1VXA8\|F1VXA8_9BURK | QD | S | D | GKHI | VIRPLAY | VK | ED | DI | TE | RYA | EVK | NF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A1H9Z341\|A0A1H9Z341_NITER | VS | D | D | GCHV | VIRPLAY | CK | ED | DI | LA | YAW | HA | QF | PII | PC | N | N | L | CGSQ | |
| tr\|V4XY05\|V4XY05_9PROT | IS | D | S | GQHT | IIRPLAY | VA | ED | DI | TR | WA | ELQ | QY | PII | PC | T | T | L | CGSQ | |
| tr\|A0A1F2T4S5\|A0A1F2T4S5_9BACT | VS | D | D | GAHV | VIRPLVY | VG | ED | DI | EA | RAYA | KEC | EL | PVV | PC | C | C | L | CGAC | |
| sp\|Q0AA41\|TTCA_ALKEH | RS | N | N | GRHV | VIRPLAY | VP | EP | DI | LY | ER | YAE | RM | AF | PII | PC | T | T | L | CGSQ |
| tr\|A0A147GW72\|A0A147GW72_9BURK | VS | D | D | GRHV | VIRPLAY | VA | ED | DI | KL | VRWA | QHR | GF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A1F4HB56\|A0A1F4HB56_9BURK | VS | D | D | GKHI | VIRPMAY | VT | ED | DI | TR | WA | LVR | GF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A2R4XML8\|A0A2R4XML8_9BORD | VS | D | D | GRHT | VIRPLAY | VK | ES | DI | QT | YAD | IR | EF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A0Q7D0U2\|A0A0Q7D0U2_9BURK | VS | D | D | GRHV | VIRPLAY | VP | ED | DI | EA | WA | AHR | QF | PII | PC | T | T | L | CGSQ | |
| tr\|H5WKR2\|H5WKR2_9BURK | VS | D | D | GKNV | VIRPLAY | VA | ED | DI | ER | WA | AHR | QF | PII | PC | S | S | L | CGSQ | |
| tr\|A0A1G4A9Y2\|A0A1G4A9Y2_9GAMM | LD | S | D | GRHV | VIRPLAY | VR | ED | DI | AR | YAR | LK | QF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A0N1AQX3\|A0A0N1AQX3_9PROT | VS | D | N | GQHT | VIRPLAY | VA | ED | DI | LE | KWA | VHR | QF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A2M8VQK0\|A0A2M8VQK0_9BURK | RS | D | D | GKHI | VIRPLAY | VP | EK | DI | LE | RY | SVD | MF | PII | PC | N | N | L | CGSQ | |
| sp\|B1XSG8\|TTCA_POLNS | RS | D | D | GKHI | VIRPLAY | VP | EK | DI | LE | RY | SAD | MF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A0Q4Y4D9\|A0A0Q4Y4D9_9BURK | VS | D | D | GRHI | VIRPLAY | VP | ER | DI | VR | WA | AHR | AF | PII | PC | T | T | L | CGSQ | |
| tr\|D8PAI7\|D8PAI7_9BACT | RS | K | S | GRHV | VIRPLAY | VK | ED | DI | AR | YAA | L | QF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A2W4TTJ2\|A0A2W4TTJ2_9BURK | VS | D | D | GQHV | VIRPMAY | VA | ED | DI | TR | WA | AEVR | EF | PII | PC | T | T | L | CGSQ | |
| tr\|F5XXJ8\|F5XXJ8_RAMTT | VS | D | D | GRHM | VIRPLAY | VA | ED | DI | IR | WA | AYR | QF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A1J5S2E4\|A0A1J5S2E4_9ZZZZ | VS | D | D | GRHV | VIRPLAY | CR | EQ | DI | LA | WA | AEER | QF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A149VSF2\|A0A149VSF2_9PROT | VS | D | D | GHHV | VIRPLAY | SR | EK | DI | AR | YAK | HR | NF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A1T5KK47\|A0A1T5KK47_9GAMM | LD | S | D | GRHV | VIRPLAY | VR | ES | DI | QA | YAA | QAR | NF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A1J5QHI3\|A0A1J5QHI3_9ZZZZ | VS | D | D | GRHV | VIRPLAY | VE | ED | DI | ER | WA | AEHR | AF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A239BRC0\|A0A239BRC0_9BURK | QD | S | D | GKNV | VIRPLAY | VK | ED | DI | ER | YAA | QVR | GF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A2N2UY70\|A0A2N2UY70_9PROT | VS | D | D | GRHV | VIRPLAY | CR | ES | DI | EA | WAR | VR | EY | PII | PC | D | D | L | CGSQ | |
| tr\|A0A1D2TFZ7\|A0A1D2TFZ7_9BURK | LD | S | D | GRHI | VIRPLAY | VE | ED | DI | EA | YAR | WR | EF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A0E3UN32\|A0A0E3UN32_9GAMM | LD | S | D | GRHV | VIRPLAY | VR | ES | DI | AE | YAT | AR | GF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A1G3HJ33\|A0A1G3HJ33_9RHOO | VS | D | D | GRNI | VIRPLAY | CR | ES | DI | EA | WA | E | TR | AF | PII | PC | N | N | L | CGSQ |
| tr\|A0A1D2SHY1\|A0A1D2SHY1_9BURK | VS | D | D | GRHI | VIRPLAY | AR | ED | DI | LAG | FA | QWR | EF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A0S8AXD2\|A0A0S8AXD2_9PROT | VS | D | D | GRHV | VIRPLAY | VR | ED | DI | AR | YAA | QVR | RF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A2S9H4F0\|A0A2S9H4F0_9BURK | QD | S | D | GKHM | VIRPMAY | VK | ED | DI | TF | RYA | EVK | KF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A0Q5YU64\|A0A0Q5YU64_9BURK | VS | D | D | GRHV | VIRPLAY | VP | EK | DI | IR | WA | AEHR | QF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A127JUC5\|A0A127JUC5_9BURK | VS | D | D | GRHM | VIRPLAY | VP | EK | DI | VR | WA | AEHR | QF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A0Q5ISN8\|A0A0Q5ISN8_9DEIO | QD | S | D | CSNV | VIRPLAY | VP | ED | DI | VR | YAA | QAA | RF | PII | PC | D | D | L | CGAQ | |
| tr\|A0A149W1G2\|A0A149W1G2_9PROT | VT | D | D | GHHV | VIRPLAY | CR | ED | DI | AR | YARG | M | EF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A1Y2R1U1\|A0A1Y2R1U1_9BURK | VS | D | D | GQHV | VIRPMAY | VA | ED | DI | AR | WA | E | IR | QF | PII | PC | T | T | L | CGSQ |
| tr\|A0A0S4LKC6\|A0A0S4LKC6_9BACT | RS | K | D | GRHL | VIRPLVL | VK | ED | DI | AR | YAE | AR | GF | PII | PC | D | D | L | CGAQ | |
| tr\|A0A2N2TX36\|A0A2N2TX36_9PROT | VS | D | D | GRHI | VIRPLAY | CR | ER | DI | EA | WA | ALR | RF | PII | PC | D | D | L | CGSQ | |
| tr\|A0A023Y8A4\|A0A023Y8A4_9GAMM | RS | D | D | GQHV | VIRPLAY | VA | ED | DI | IR | YAA | QAR | AF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A1E4IL97\|A0A1E4IL97_9BURK | VS | D | D | GQHV | VIRPLAY | VA | ED | DI | ER | WA | AEHR | QF | PII | PC | S | S | L | CGNQ | |
| tr\|A0A1C9V9X4\|A0A1C9V9X4_9BURK | VS | D | D | GKHV | VIRPLAY | VP | EK | DI | TR | WA | DIR | QF | PII | PC | T | T | L | CGSQ | |
| tr\|A0A2U1RUV0\|A0A2U1RUV0_9PROT | VS | D | D | GRHV | VIRPLAY | VE | ED | DI | LA | YAG | DR | AF | PII | PC | D | D | L | CGSQ | |
| sp\|A7H8W2\|TTCA_ANADF | RS | D | D | GRNV | VVRPLCY | AA | ED | DI | AA | FAT | AM | RF | PVI | PC | D | D | L | CGSQ | |
| tr\|A0A2S7DIN9\|A0A2S7DIN9_9XANT | RS | D | D | GAHV | VIRPLAY | VR | ED | DI | AA | YAA | QLR | QF | PII | PC | N | N | L | CGSQ | |
| tr\|A0A0Q6WLA5\|A0A0Q6WLA5_9BURK | VS | D | D | GRNV | VIRPLAY | VP | EV | DI | ER | WA | AHR | QF | PII | PC | T | T | L | CGSQ | |
| tr A0A240DXW0 A0A240DXW0_9BURK | RS | D | D | GKHM | VIRPLAY | VP | EK | DI | LE | RY | SSD | MF | PII | PC | N | N | L | CGSQ | |
| tr A0A0C3RNN2 A0A0C3RNN2_9PROT | | | | | | | | | | | | | | | | | | | |

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| tr A0A2T0XCQ9 A0A2T0XCQ9_9PROT | ISD..D..GCNI | VIRPLAYVP | ETDLIA | YSQWK..KF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A1H1GE24\|A0A1H1GE24_9GAMM | LS D..D..GRHV | VIRPLAYVS | EAEIAA | HA EAM..AF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2K3V265\|A0A2K3V265_9DETO | QSD..D..GRHV | VIRPLAYVP | ES EIV | AY A QAR..AF | PIIIPC | ..D.. | LCGAQ |
| tr\|A0A077DFR5\|A0A077DFR5_9BURK | VSD..N..GKHI | VIRPLAYVP | ES EIQ | YAAIB..NF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A0R0D1A2\|A0A0R0D1A2_9GAMM | RSD..D..GQHV | VIRPLAYVR | ERDIA | QY A QAR..RF | PIIIPC | ..T.. | LCGSQ |
| tr\|A0A1H6SN85\|A0A1H6SN85_9GAMM | RSD..D..GRHV | VIRPLAYCR | ESDIAR | YA QAR..AF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A0S8B9F1\|A0A0S8B9F1_9PROT | VSD..D..GRHV | VIRPLAYVR | EDDLAA | YAVAR..GF | PIIIPC | ..S.. | LCGSQ |
| tr\|A0A1W2AVA5\|A0A1W2AVA5_9BURK | KSD..D..GRHI | VIRPLAYVP | EKYLEA | YAIQE..NF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A1F4C0R4\|A0A1F4C0R4_9PROT | KSD..D..GRHV | VIRPLAYVS | EADLAA | WAQVK..EF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A0G9I466\|A0A0G9I466_9XANT | RSD..D..GRHV | VIRPLAYVR | EADIA | DY A QAR..GF | PIIIPC | ..T.. | LCGSQ |
| tr\|A0A142LLS3\|A0A142LLS3_9PROT | VSD..N..GKHI | VIRPLAYVE | EGDLA | YAAWK..QF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A0S4KPD2\|A0A0S4KPD2_9BACT | RSK..D..GRHL | VIRPLAFVK | ESDLAR | YAE LR..RF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A1F3ZUE5\|A0A1F3ZUE5_9PROT | VSD..D..GRHV | VIRPLAYCE | EKDLAA | YAEVK..QF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A1F4DZ03\|A0A1F4DZ03_9PROT | VSD..D..GHHI | VIRPLAYCE | EQDLAA | YAE LK..QF | PIIIPC | ..N.. | LCGSQ |
| tr\|I7JPW7\|I7JPW7_9BURK | VSD..D..GKHM | VIRSLAFVA | EKDIIL | YAKQK..AF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A1W9I1Z2\|A0A1W9I1Z2_9BACT | RSK..D..GRHL | VIRPLALVK | EVDLER | YAE LR..AF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A0K6INV6\|A0A0K6INV6_9PROT | RND..E..GDLV | VIRPLAYCA | EEDLAR | YARGM..NF | PIIIPC | ..S.. | LCGSQ |
| tr\|A0A1Q7K1L6\|A0A1Q7K1L6_9BACT | VSD..D..GEHV | VIRPLVYVG | EDEAR | YATKEC..EL | PIIIGC | ..C.CP | ACG |
| tr\|A0A1F4A4W7\|A0A1F4A4W7_9PROT | VSD..D..GRNV | VIRPLAYVK | EDDLA | EYAKVK..RF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A1W1I491\|A0A1W1I491_9BACT | LSK..D..KRHV | VIRPLA VR | EADLAR | YAE LR..GF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A0A0EQJ7\|A0A0A0EQJ7_9GAMM | LS D..N..GKHV | VIRPLAYAR | EDDIA | YADAK..QF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A227KHY1\|A0A227KHY1_9BURK | LS D..A..KEHI | VIRPMIYIR | EKDLKR | WCKVQ..NY | DIIPK | .. | LCG.A |
| tr\|G7UTP0\|G7UTP0_PSEUP | RSD..D..GRHV | VIRPLATVR | EADIA | YAAAR..GF | PIIIPC | ..T.. | LCGSQ |
| tr\|A0A2E9QVJ1\|A0A2E9QVJ1_9DELT | TSD..D..GRHV | VIRPLCNVA | EDDIAL | TQYK..QF | TIFPC | ..L.. | SCDL |
| tr\|A0A2D4T7S2\|A0A2D4T7S2_9GAMM | KSD..D..GRHV | VIRPLAYCR | ESDLA | YARVM..EF | PIIIPC | ..N.. | LCGTQ |
| tr\|D0LKN0\|D0LKN0_HALO1 | HSD..D..GRNT | VIRPLAYVP | EALLSS | YAQER..EF | PVVR | ..G.CP | SCG |
| tr\|A0A1E4K8H8\|A0A1E4K8H8_9GAMM | RSD..D..GRNV | LIRPLAYCR | EDDIA | DY A QAR..SF | PIMP | ..N.. | LCGSQ |
| tr\|A0A1F4APU1\|A0A1F4APU1_9PROT | QSD..D..GKHV | VIRPLAYVT | EADLET | YAKDR..QF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2N6GWA5\|A0A2N6GWA5_9BACT | RSK..D..GRHV | VIRPLA VR | ESDLAR | YAE LR..AF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2N6CXG2\|A0A2N6CXG2_9GAMM | HTD..D..GRHV | VIRPLAYCA | EKDIA | YASRTR..EF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A0H1AUB9\|A0A0H1AUB9_9GAMM | RSD..D..GKHV | VIRPLAYVA | EADIVA | YADAK..AF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A136JY00\|A0A136JY00_9BACT | RSK..D..GRHL | VIRPLAYVK | EVDLAR | YAALM..EF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2P526X0\|A0A2P526X0_9XANT | RSD..D..GHHV | VIRPLAYVR | EDDIA | YAQAQ..AF | PLIIPC | ..T.. | LCGSQ |
| tr\|A0A2N6HCJ3\|A0A2N6HCJ3_9BACT | RSK..D..GRHL | VIRPLAFVK | EMDLAR | YAE LR..GF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A1B3W763\|A0A1B3W763_9GAMM | LS D..D..GRHV | VIRPLAFAC | EEDIA | EYARLK..EF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A1Q3HX84\|A0A1Q3HX84_9DELT | KSD..D..GRNT | VIRPLCYAP | EKEIA | YAEAR..QF | PIIIPC | ..D.. | LCGTQ |
| tr\|A0A0S8DJ34\|A0A0S8DJ34_9PROT | VSD..D..GRHM | VIRPLA CR | ERDLER | YAAEK..AF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A1H9F4W7\|A0A1H9F4W7_9GAMM | QSD..D..GRNV | VIRPLAYCR | ERDIA | YAGIK..GF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A1Q7RN46\|A0A1Q7RN46_9BACT | KAR..D..GRNT | VIRPLCYVW | EDEIVR | FVAEV..GF | PVIC | ..A.CP | ACG |
| tr\|A0A2W4SMK5\|A0A2W4SMK5_9PROT | LSE..D..GRHV | VIRPLAYVA | ERDIA | YARGR..GF | PIIIPC | ..R.. | LCGSQ |
| tr\|A0A1W9GP08\|A0A1W9GP08_9BACT | RSK..D..GRHL | VIRPLALVK | EIDLAR | YAE LR..AF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2V8L7U0\|A0A2V8L7U0_9BACT | RSD..D..GRNT | IIRFAYCR | ADIAE | FAAAA..QF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2N6HCC5\|A0A2N6HCC5_9BACT | RSK..D..GRHV | VIRPLSAVR | ESDLA | QYAE LR..AF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2P6UWD7\|A0A2P6UWD7_9BURK | RSD..D..GKNI | LIRPLAYVK | ESDLER | YAVYK..QF | PIIIPC | ..N.. | LCGSE |
| tr\|A0A1W9Q7F1\|A0A1W9Q7F1_9DELT | LTD..D..GRFH | VIRPLIQCE | EAKREL | ALSEQ..AF | PIIPC | ..N.. | LCGSQ |
| tr\|D2U914\|D2U914_XANAP | RSD..D..GQHV | VIRPLAYVR | EHDI | AA Y A QAR..HF | PLIIPC | ..T.. | LCGSQ |
| tr\|A0A2V8QZ45\|A0A2V8QZ45_9BACT | RSD..S..ALNT | VIRPLAYCR | ESDIAE | F AALK..GF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A0C1ZJ02\|A0A0C1ZJ02_9DELT | YSD..D..GRNV | VIRPLASCG | EAEIA | AAWQLR..GF | PIVPC | ..D.. | LCGSQ |
| tr\|A0A2G4JKQ0\|A0A2G4JKQ0_9BACT | TSD..N..GAHV | VIRPLVYVT | EAEAR | YACKER..EL | PIIIGC | ..C.CP | ACG |
| tr\|A0A1P8FIE4\|A0A1P8FIE4_9PROT | KSD..D..GKHI | VIRPLTYVE | ESDLA | EYSQLR..AF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2N6C1I7\|A0A2N6C1I7_9GAMM | RSD..D..GRHV | VIRPLAYCS | ERDIA | YASAR..RF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A2E6NRV0\|A0A2E6NRV0_9BACT | RTV..D..GRFE | VIRPLIECA | ETDIT | AHSEVR..NY | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A0S4M5G9\|A0A0S4M5G9_9BACT | VSD..D..GSHV | VIRPLAYVA | EEDTIR | WSEHR..KF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A2V8RRY8\|A0A2V8RRY8_9BACT | RSD..D..GRNT | VIRPLAYCR | EPDIAE | YAA LK..QF | PLIIPC | ..D.. | LCGSQ |
| tr\|A0A2V8NMT6\|A0A2V8NMT6_9BACT | RSD..D..GRNT | VIRPLAYCR | ESDIAE | YAAEK..NF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A1Z3HKZ4\|A0A1Z3HKZ4_9CYAN | LTD..D..HRHI | VIRPLTYCP | EADIA | YARQR..QF | PIIIPC | ..T.. | LCGSQ |
| tr\|A0A1E3YP57\|A0A1E3YP57_9BACT | VSD..N..GQHI | VIRPLVYVL | EAEARA | YAES..HL | PVIGC | ..C.CS | ACG |
| tr\|A0A1F2VT74\|A0A1F2VT74_9BACT | IS D..N..GAHV | VIRPLVYVT | EAEAGA | YCKES..AL | PIIIGC | ..C.CP | ACG |
| tr\|A0A229FWN0\|A0A229FWN0_9BURK | KSD..D..GKHI | VIRPLAYVP | ESYLER | YAAQM..DF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A1Q7NMH3\|A0A1Q7NMH3_9BACT | RSD..D..GRNT | VIRPLAYCC | ESDLAE | FAAQA..GF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A1F2UEC9\|A0A1F2UEC9_9BACT | VSD..N..GAHV | VIRPLVYAG | EDEARA | YAKES..DL | PIIIGC | ..C.CP | ACG |
| tr\|A0A2W4IY52\|A0A2W4IY52_9PROT | RSD..D..GRNV | VIRPLAYCA | EEDIAE | FARRM..KF | PIIVPC | ..T.. | LCGSQ |
| tr\|A0A1Q4F9M9\|A0A1Q4F9M9_9GAMM | QAD..D..GRNT | VIRPLAYCA | ESDLA | EALARQR..AY | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A177QU13\|A0A177QU13_9PROT | VSD..D..GRHV | VIRPLAYVA | EEDLI | HYSRIK..SF | PIIIPC | ..T.. | LCGSQ |
| tr\|A0A2E6DH17\|A0A2E6DH17_9DELT | LAD..N..GQLE | VIRPLAFVA | EEHIA | ALASHL..NFA | ILIPC | ..N.. | LCGSL |
| tr\|A0A1F4AZ02\|A0A1F4AZ02_9PROT | VSD..D..GRHV | VIRPLAYAR | EDDLA | YAEVR..RF | PIISG | ..S.. | LCGSQ |
| tr\|A0A1G0K8S4\|A0A1G0K8S4_9GAMM | LS D..D..GDNI | VIRPLSCA | EADIK | EYARVR..EF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A1F2S0S1\|A0A1F2S0S1_9BACT | VSD..D..TEHV | VIRPLVYVG | EEDARL | YAVEC..GL | PIIIGC | ..C.CP | SCG |
| tr\|A0A1F4F7H5\|A0A1F4F7H5_9PROT | VSD..D..GRHT | VIRPLAYVA | EDDLA | YAAAK..RF | PVIPC | ..N.. | LCGSQ |
| tr\|A0A1F4EY53\|A0A1F4EY53_9PROT | VSD..D..GRHV | VIRPLAYAT | ENDLAA | YAE LK..GF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A2V9MNZ3\|A0A2V9MNZ3_9BACT | RSD..D..GRNT | VIRPLAYCR | EADITR | FAGLM..DY | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A1F2T0Z1\|A0A1F2T0Z1_9BACT | VSD..D..GKHV | VIRPLVYVG | EEDARQ | YTKAC..GL | PIVGC | ..C.CP | ACG |
| tr\|A0A2E1W0Q9\|A0A2E1W0Q9_9BACT | VSD..D..GRHV | VXRLVYIS | EEEAR | DTQET..GL | PVIGC | ..C.CP | VCG |
| tr\|A0A2E8PU16\|A0A2E8PU16_9SPIO | RIE..E..GDLH | VIRPLAQVS | EDDIRS | YVELO..GW | TVIPC | ..N.. | LCGSQ |
| tr\|A0A2E3YPS5\|A0A2E3YPS5_9GAMM | LS D..D..GEHV | VIRPLAYCR | ESHI | SEYAQNR..QF | PIIIPC | ..N.. | LCGSQ |
| tr\|A0A2V9IN59\|A0A2V9IN59_9BACT | RSD..D..GRNT | VIRPLAYCW | ESDIAA | FADLQ..RY | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2N6EE65\|A0A2N6EE65_9DELT | LAD..N..GRHT | VIRPLVYVE | EGEIRK | LANRN..SF | PTIDC | ..G.CP | ACG |
| tr\|A0A2S9YG53\|A0A2S9YG53_9DELT | TTD..D..GRFE | VIRPLIECA | ESDIVE | HA AWA..NY | PIIPC | ..N.. | LCGSQ |
| tr\|A0A1V5WZE2\|A0A1V5WZE2_9DELT | IAD..D..GRHV | VIRPLIYCS | EPSIVK | LS SSSY..GF | PIIPC | ..R.. | VCGSR |
| tr\|A0A2W4LZQ0\|A0A2W4LZQ0_9PROT | VSD..D..GRNV | VVRPLIYAS | EADLAA | FAEQK..RF | PVIPC | ..D.. | LCGSQ |
| tr\|A0A2V8HI30\|A0A2V8HI30_9BACT | VSD..N..GRHV | VVRPLVYVS | ERDARA | YATREC..GL | PIIIGC | ..C.CP | ACG |
| tr\|A0A1Z9BBR1\|A0A1Z9BBR1_9PROT | FSD..N..KKHI | VIRSLSYFR | EXDLF | VLASHK..KF | I IIPC | ..N.. | XSGSQ |
| tr\|A0A2V8BI28\|A0A2V8BI28_9BACT | VSD..D..GEHV | VIRPLVYAG | EDEARA | YTKES..GL | PIIIGC | ..C.CP | ACG |
| tr\|A0A2V8FAJ3\|A0A2V8FAJ3_9BACT | VSD..N..GRHV | VVRPLVYVG | EEDARA | YTKER..AL | PIIIGC | ..C.CP | ACG |
| tr\|A0A1F9LA55\|A0A1F9LA55_9DELT | RSD..S..GNHE | IIRPLCYVA | EDLIAL | AKHM..EF | PVIPC | ..K.. | LCGSQ |
| tr\|A0A1I1VUS3\|A0A1I1VUS3_9DELT | RSD..D..GRNT | IIRPLILCE | ERDLA | YAVEQ..GF | PVIPC | ..D.. | LCGSQ |
| tr\|A0A2E4FKB0\|A0A2E4FKB0_9BACT | VSD..D..GRHV | VIRPLVYVS | EEEA | EYTKQA..EL | PVIGC | ..C.CP | VCG |
| tr\|I4B8F4\|I4B8F4_TURPD | VSD..D..ARNT | VIRPLMRVA | EELTGL | LARAL..NF | PIIPC | ..N.. | LCNNQ |
| tr\|A0A1F2TDP4\|A0A1F2TDP4_9BACT | VSD..N..GEHV | VVRPLVYVS | EEEA | RAYAKAE..AL | PIIIGC | ..C.CP | ACG |
| tr\|A0A2V8IUM8\|A0A2V8IUM8_9BACT | VSD..N..GEHV | VIRPLVNVLS | EEEA | RAYAKAS..AL | PVIGC | ..C.CP | ACG |
| tr\|A0A2E6ZRN2\|A0A2E6ZRN2_9BACT | VSD..D..RRHV | VIRPLVYVA | EEEA | RQYTDVE..GL | PIIIGC | ..C.CS | ACG |
| tr\|A0A2S9XKB3\|A0A2S9XKB3_9DELT | RSD..D..GRNV | IIRPLASCA | EAEIA | YAEQEQ..AF | PVIPC | ..D.. | LCGSQ |
| tr\|A0A2E7BN06\|A0A2E7BN06_9BACT | VSD..D..RRHV | VIRPLVYVS | EEEA | EAREYTERA..GL | PVIGC | ..C.CP | VCG |
| tr\|A0A2E8E785\|A0A2E8E785_9BACT | VSD..D..RRHV | VIRPLVYVS | EEEA | RDYTRMA..GL | PVIGC | ..C.CP | ACG |
| tr\|K9WKS1\|K9WKS1_9CYAN | LS D..D..GKHV | VIRPLAYCS | EQDIG | YAAAK..QF | PIIIPC | ..K.. | LCGSQ |
| tr\|A0A2E6NIN2\|A0A2E6NIN2_9BACT | VPD..V..AQOI | VIRPLVYVS | ES ETRA | YAEAC..GL | PIVGC | ..C.CP | VCG |
| sp\|A1AUS1\|TTCA_PELPD | LAD..N..GRTT | VIRPLVYAS | EEEIVD | FMGQV..GL | PVVS | ..N.CP | VSD |
| tr\|A0A1W9NGM0\|A0A1W9NGM0_9SPIO | QPE..K..ENLE | IIRPLCNVE | EAWIEE | YALR..GW | PLIPC | ..S.. | YCGSQ |
| tr\|A0A1G0HG69\|A0A1G0HG69_9GAMM | LS D..N..KKHI | VIRPLVYQ | EADIK | YASEQ..QF | PIIIPC | ..T.. | LCGLQ |
| tr\|A0A257KZN9\|A0A257KZN9_9BURK | VSD..D..GKHT | VIRPLAYVA | ESDLER | YAAHR..QF | PIIIPC | ..T.. | LCGSQ |
| tr\|A0A017SU25\|A0A017SU25_9DELT | IAD..D..GRNV | VIRPLIYCA | EDDLA | A FSTEM..AF | PIIIPC | ..D.. | LCGSQ |
| tr\|A0A2E5NNL5\|A0A2E5NNL5_9PROT | LS D..S..GKHI | VIRPLAYCQ | ETLIE | AY A QSR..QF | PIIIPC | ..N.. | LCGSQ |
| tr H2CFU5 H2CFU5_9LEPT | TIR..D..NDLR | VIRPLTSVH | EWEL | IREYV SLS..GW | KLIPC | ..N.. | LCGSQ |

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| tr A0A2V6RG95 A0A2V6RG95_9BACT | QSR..K..GTLR LIRPLVYAT EELTAA YATAQ..GFRTV G ...V CGER.. |
| tr\|A0A2E9Q744\|A0A2E9Q744_9SP10 | RIE..E..GDLH\|VIRPLASVS\|EDDIKE\|FVSQM..GWTVL\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1F2R952\|A0A1F2R952_9BACT | VSD..D..GEHV\|VVRPLVYIG\|EAEARL\|YAKEC..ALPIIT\|G\|C\|..C\|CP\|ACG.. |
| tr\|V5WDR6\|V5WDR6_9SP10 | RSD..D..GRHV\|LIRPLSYVK\|EADIAA\|FAREM..KFPIIT\|S\|C\|..G..F\|CVKY.. |
| tr\|A0A2V8GAJ7\|A0A2V8GAJ7_9BACT | VSD..N..EEHV\|VIRPLVYVG\|EAEARA\|YCKES..ELPIIT\|G\|C\|..C\|CP\|ACG.. |
| tr\|A0A2J6J4V4\|A0A2J6J4V4_9DELT | EAD..N..GQHT\|VIRPMIVVE\|EELIRJ\|YSQLA..NHPIIR\|C\|..S\|CP\|VEG.. |
| tr\|A0A2N2FXA6\|A0A2N2FXA6_9DELT | LAD..N..GQQT\|VIRPFVYVE\|EEKLI\|ALGREN..SFPIIV\|S\|C\|..A\|CP\|VAS.. |
| tr\|A0A2N6FC22\|A0A2N6FC22_9DELT | LAD..N..GRHT\|VIRPLVYVE\|ESDI\|REWV\|RLM..DFPIIV\|H\|C\|..S\|CP\|AFG.. |
| tr\|A0A2V8UJY0\|A0A2V8UJY0_9BACT | HSR..D..REFR\|LIRPLVYVT\|EDITTA\|FAQYL..GAPLVP\|C\|..D\|CS\|LR.. |
| tr\|A0A1T4JZQ3\|A0A1T4JZQ3_9DELT | VCD..T..GDIT\|VIRPLVYVA\|EDDI\|TTV\|QQA..GIKT\|V\|S\|C\|..N\|CP\|VAD.. |
| tr\|M4VBX7\|M4VBX7_9PROT | RSD..D..NRNT\|VVRPMIFVA\|EKDLS\|QLATEW..GFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1L3GE40\|A0A1L3GE40_PELAE | LAD..N..GRHT\|VIRPLVYVE\|ESDVAA\|FARNN..DLPSP\|I\|P\|C\|..G\|CP\|EEV.. |
| tr\|A0A2V7HPH4\|A0A2V7HPH4_9BACT | RSR..K..GALR\|LIRPLVYVS\|EALTA\|AYVDAH..GFPAVK\|C\|..V\|CGDQ.. |
| tr\|A0A2N9LW04\|A0A2N9LW04_9BACT | YSR..D..REYR\|LIRPLVYVT\|EDITRA\|YAEAT..GVPVVP\|C\|..G\|CS\|QR.. |
| tr\|A0A2F0ART3\|A0A2F0ART3_9DELT | VEA..N..GGAT\|LIRPLALSA\|EDDLRA\|YAMEK..EFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1F9PW08\|A0A1F9PW08_9DELT | RAD..N..GRHT\|VIRPFVYVE\|EQDI\|AYCRSN..AFPVT\|CC\|A\|CP\|VCG.. |
| tr\|A0A212PKL4\|A0A212PKL4_9DELT | MAD..N..GVTT\|VIRPLVYVE\|ERDI\|INFSRAN..RFPVV\|CC\|C\|CP\|VCG.. |
| tr\|A0A1E7IDL2\|A0A1E7IDL2_9DELT | KAD..N..GIHT\|VIRPLVYVE\|ESMIEQ\|WAQIK..HVPQID\|C\|..S\|CP\|LA.. |
| tr\|A0A1F4K9T7\|A0A1F4K9T7_9BURK | VSD..D..GGHI\|VIRPLANVA\|EKDLIR\|WAEHR..QFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1V6G367\|A0A1V6G367_9BACT | LTK..D..GALH\|VVRPLIEVA\|ERDLRR\|LAELA..RFPIILP\|R\|P..A\|CAGR.. |
| tr\|A0A1V6GTQ7\|A0A1V6GTQ7_9DELT | VTD..D..RRNR\|LIRPLAYCT\|SDLIG\|AYFPYL..EVEPV\|TL\|..R..L\|CPRR.. |
| tr\|A0A2V7EYK5\|A0A2V7EYK5_9BACT | VSR..R..GTLR\|LVRLVYVT\|EDLTA\|AYARAR..GLATV\|CG\|..A\|CS\|DR.. |
| tr\|A0A2K2H7P2\|A0A2K2H7P2_9DELT | RAD..N..GRHT\|VIRPLVYVE\|EGEIR\|FMRQQ..KLPVIC\|C\|..A\|CP\|VCG.. |
| tr\|A0A1F7NH02\|A0A1F7NH02_9BACT | TSR..R..GSIR\|LIRPLVYVT\|EELTA\|AYARAQ..GFLT\|V\|CG\|..A\|CS\|DR.. |
| tr\|A0A0B5FS20\|A0A0B5FS20_9DELT | LAD..N..GRHT\|VIRPMVYVE\|ESDSS\|FSQRY..ELPVVD\|C\|..S\|CP\|MAG.. |
| tr\|A0A2V6ULT5\|A0A2V6ULT5_9BACT | VSR..K..GTLR\|LIRPLVYVT\|EDLTA\|AYTRAR..GLTTV\|VG\|..A\|CS\|DK.. |
| tr\|A0A2V6Y9C3\|A0A2V6Y9C3_9BACT | VSR..K..GMLR\|LVRLVYVA\|EDLTA\|AYARAR..GLATV\|CG\|..A\|CS\|DK.. |
| tr\|A0A2N6EF94\|A0A2N6EF94_9DELT | LAD..N..GRHT\|VIRPMVYVE\|EVI\|AELARRS..GYPVV\|GC\|..A\|CP\|ACG.. |
| tr\|A0A0A8RJ9R\|A0A0A8RJ9R_PSEAI | LAD..D..GRNV\|VIRPLAYCS\|EKDIE\|AYSQLK..EFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A0P9TR35\|A0A0P9TR35_PSEAV | RAD..D..GRNV\|VIRPLAYCH\|EKDQ\|AYSCLK..QFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2D7N717\|A0A2D7N717_9GAMM | VSD..D..GRYV\|VIRPLAYCK\|ESDLAQ\|FAVDR..AYPIIT\|P\|C\|..H..L\|CGSQ.. |
| tr\|A0A2E4KXY4\|A0A2E4KXY4_9GAMM | VSD..N..SRYV\|VIRPLAYCK\|EADLAQ\|FAVDR..NYPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2U2AFP2\|A0A2U2AFP2_9GAMM | RSD..D..GENI\|LIRPLAYCE\|EKDLI\|KAYQMR..QFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1Z9WN08\|A0A1Z9WN08_9GAMM | VSR..D..GRYV\|VIRPLAYCK\|ESDLAQ\|FAEDQ..SYPIIT\|P\|C\|..N..L\|CGSK.. |
| tr\|A0A0K2G7B2\|A0A0K2G7B2_NITMO | RSK..D..GRHV\|VIRPLAFVK\|ESDLAR\|YAE LR..AFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A2M6X3K2\|A0A2M6X3K2_9PROT | KSD..D..GVNT\|VIRPLVYVG\|EDDIE\|YARAR..KFPIV\|CC\|Q\|CP\|LACGE.. |
| tr\|A0A1V5R0W3\|A0A1V5R0W3_9BACT | TSR..D..GANT\|VIRPLGYCE\|EEDLRR\|FAWLK..GYFFV\|P\|C\|..G\|CPL\|CGA.. |
| tr\|X0QN96\|X0QN96_9GAMM | LSD..D..KQNM\|LIRPLAYVE\|EKDIE\|YAKLK..EFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2N2JDQ6\|A0A2N2JDQ6_9DELT | RSD..D..GRNT\|VIRPLAYCV\|EEDIE\|AYAE LM..RFPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1Z5JK72\|A0A1Z5JK72_FISSO | TSQ..R..GSLG\|VLRLIQCW\|EDDIAT\|YASSM..EFPPIIT\|P\|C\|..N..L\|CSNQ.. |
| tr\|A6G7U2\|A6G7U2_9DELT | RSD..D..GRNV\|IIRPLGTCA\|EADIA\|RYAALA..NFPIV\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1L6LYW7\|A0A1L6LYW7_9DELT | VSD..E..GDNI\|VIRPLIYCA\|EADLA\|FAAEE..AFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A2N2GUK6\|A0A2N2GUK6_9DELT | VSD..D..RRNR\|LIRPMITCR\|EAAIR\|RRYSQLI..EAPVT\|RC\|..L..L\|CLAGC.. |
| tr\|A0A1M3N0E1\|A0A1M3N0E1_9DELT | VSD..E..GHV\|VIRPLAYCA\|EEDIA\|YAKAQ..AFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A143PPA8\|A0A143PPA8_9BACT | VSD..D..GRHV\|VIRPLVYVS\|EQALE\|YAMAC..ELPIV\|GC\|..C\|CP\|ACG.. |
| tr\|A0A0D6QP07\|A0A0D6QP07_9DELT | RSR..D..GRNV\|VIRPLCYAA\|EEDVAA\|FAEAM..RFPIV\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A150QKP6\|A0A150QKP6_SORCE | VSD..A..GDNV\|VIRPLIYCA\|EDELAA\|FAAEE..RFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A0F6W196\|A0A0F6W196_9DELT | VSD..D..QRNT\|VIRPLLYCA\|EPSL\|ARFAELE..RFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A2E4F8S9\|A0A2E4F8S9_9DELT | HSD..D..GRNV\|VIRPLVYCA\|EEDIE\|AAFAEEM..QFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2M8BFD6\|A0A2M8BFD6_9DELT | RSD..D..RRNV\|VIRPMITVP\|ESLIE\|FSEAM..SFPTV\|P\|C\|..T..L\|FCSTQ.. |
| tr\|A0A2D9HEL4\|A0A2D9HEL4_9DELT | RSD..D..GRNV\|VIRPLMQCA\|EABIE\|ATYAQGM..GFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2E7BRH0\|A0A2E7BRH0_9DELT | HSD..D..GRNT\|VIRPLMQCA\|EDEIAD\|YAQRM..GFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2E7MCK4\|A0A2E7MCK4_9DELT | QAQ..D..GRNI\|VIRPLMRCF\|ESALV\|SYAAEQ..NFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2T5ZGX2\|A0A2T5ZGX2_PSESD | RAD..D..GRNV\|VIRPLAYCA\|EKDQ\|AYSCLK..QFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2P9H6T1\|A0A2P9H6T1_9BURK | VSD..D..GRNV\|VIRPLAYIP\|EADLAR\|YAQVK..RFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2N9LJS7\|A0A2N9LJS7_9BURK | VSD..D..GRHV\|VIRPLAYIP\|EADLER\|YAQTK..RFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|E7S057\|E7S057_9BURK | VSD..D..GRHV\|VIRPLAYVE\|EKDLIR\|WAEVK..NFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2A4P8Z1\|A0A2A4P8Z1_9RHIZ | KNE..D..GDLR\|VLRLIYCS\|EDDLK\|FQAQM..KFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A0M7AI61\|A0A0M7AI61_9RHOB | IND..E..GDLL\|VLRLYTAICA\|ESDIAR\|FASGM..QFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|B9QZY1\|B9QZY1_LABAD | IND..E..GDLL\|VLRLYAAER\|DIQK\|FSDGM..EFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2E8PN43\|A0A2E8PN43_9RHOB | VNE..D..GDLT\|LLRPLAYVS\|EADCAK\|YSRLM..GYPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A0U3Q6R9\|A0A0U3Q6R9_9RHOB | VND..E..GDLM\|VLRLAYCA\|ESDVAK\|FAAGM..QFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|Q0FM23\|Q0FM23_PELBH | VNE..E..GDLF\|VYRPLAHVA\|EVDCEK\|FARAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A285NGN7\|A0A285NGN7_9RHIZ | KNE..E..GDLM\|VYRPLAYCA\|ESDLEK\|FAEAM..QFPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1H1I26\|A0A1H1I26_9RHOB | VND..D..GDLM\|VLRLPMNCS\|EADIEK\|FSAAM..EFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1U7JKQ3\|A0A1U7JKQ3_9RHOB | VND..D..GDLM\|VLRLIYSS\|EADIEK\|FAKAM..AFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2T5VDC0\|A0A2T5VDC0_9RHIZ | LNE..D..GDLT\|LLRPLAAC\|EADLAR\|FSNAL..EFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1X0T5T9\|A0A1X0T5T9_9RHIZ | LND..E..GDLF\|VLRLIYQSA\|ESDLER\|FAAAM..RFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1J0WLM9\|A0A1J0WLM9_9RHOB | VNE..E..GDLF\|VYRPLAHVA\|EADCEK\|FSAAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A068D9I9\|A0A068D9I9_9RHIZ | LND..E..GDVM\|VLRLPSYCA\|EDILEK\|FAAAM..RFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1M7GB07\|A0A1M7GB07_9RHOB | VND..E..GDLL\|VLRLAYSACA\|ESDIAR\|FAQGM..QFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|F2J474\|F2J474_POLGS | LND..D..GDLF\|VLRLPSYCS\|ENDIAR\|FARAM..AFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2N5XWE2\|A0A2N5XWE2_9RHIZ | KNE..E..GDLM\|LFRLPAYCE\|SDLEK\|FATLM..QFPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A165N2M5\|A0A165N2M5_9RHOB | VND..E..GDLM\|VLRLPMNSS\|EADIEK\|FSKAM..DFPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|F0L6P6\|F0L6P6_AGRSH | MND..E..GDLM\|VLRLAYCA\|EEDMAK\|FAAAM..EFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A2E3JZ33\|A0A2E3JZ33_9RHOB | LND..E..GDVM\|VLRLITAA\|EDDLEK\|FSNAM..NFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1Z8X2N2\|A0A1Z8X2N2_9RHIZ | LNE..D..GDLT\|VLRLANCS\|EADLSK\|FSDFM..DFPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1L3L3G5\|A0A1L3L3G5_9RHIZ | LND..E..GDLT\|VLRLAYAA\|EDLSK\|FAAAM..EFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A0M6YMA0\|A0A0M6YMA0_9RHOB | LND..E..GDLT\|VLRLAYSA\|EGDIAK\|FAAGL..QVPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2S3UK45\|A0A2S3UK45_9RHOB | IND..E..GDLT\|VLRLAYSACA\|EDIAK\|FATGM..RFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A062UNB4\|A0A062UNB4_9RHOB | LND..E..GDCF\|VLRLITAA\|EDDLAK\|FAEAM..NFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1H2GV68\|A0A1H2GV68_9RHOB | LND..D..GDLT\|VLRLIASS\|EDDIAR\|YAKAM..AFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|U4V1M4\|U4V1M4_9RHOB | VNE..E..GDLF\|VYRPLAFVA\|EKDCS\|FARAM..QYPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A2E2JQJ5\|A0A2E2JQJ5_9RHOB | VNE..E..GDLF\|VYRPLAHVA\|EEDCEK\|FARAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A0Q2U9I2\|A0A0Q2U9I2_9RHOB | LND..E..GDLF\|VYRPLAHVA\|EADCK\|FARAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1I3NRT7\|A0A1I3NRT7_9RHOB | VNE..D..GDLT\|VLRLAFVA\|EQDCER\|YARAM..DYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|E2CME8\|E2CME8_9RHOB | VND..E..GDLT\|VLRLAYSA\|ESDIAR\|FASGM..EFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A1H8KDM8\|A0A1H8KDM8_9RHOB | VNE..E..GDLF\|LYRPLAFVA\|EADCEK\|FAKAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A2E6Y209\|A0A2E6Y209_9RHOB | VND..E..GDLM\|VLRLIACA\|EDDIAR\|FAKAL..EFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A285R4U2\|A0A285R4U2_9RHOB | VND..D..GDLM\|VLRLIACA\|EDDIAR\|FARAM..EFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A2E2X6Z9\|A0A2E2X6Z9_9RHIZ | VND..E..GDVM\|VLRLAYCA\|EEDLQK\|FSADM..EFPPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2A4NQL7\|A0A2A4NQL7_9RHIZ | LND..A..GETL\|VLRLIFAA\|ESDLAK\|FASDL..KFPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1M4N2C9\|A0A1M4N2C9_9RHOB | VNE..E..GDLF\|VYRPLAFVA\|EEDCEK\|FARAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1Y5S675\|A0A1Y5S675_9RHOB | VNE..E..GDLF\|LYRPLAHAA\|EADCEK\|FAKSM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1M5MIW3\|A0A1M5MIW3_9RHOB | VNE..E..KDLF\|VYRPLAHVA\|EEDCEK\|FAKAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1G9EC22\|A0A1G9EC22_9RHOB | LNE..E..GDLF\|VLRLAFVA\|EADCEK\|FARAM..GYPIIT\|P\|C\|..N..L\|CGSQ.. |
| tr\|A0A2T5BNF4\|A0A2T5BNF4_9RHOB | VNE..D..GDLF\|VYRPLAFVA\|ETDCER\|FSRAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1H8VKC4\|A0A1H8VKC4_9RHOB | VNE..E..GDLF\|VYRPLAHVA\|EADCEK\|FARSM..DYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A2R8AP84\|A0A2R8AP84_9RHOB | VNE..E..GDLF\|VYRPLAFVA\|EVDCEK\|FAKSM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1H9X6V8\|A0A1H9X6V8_9RHOB | LNE..E..GDLF\|VYRPLAHVA\|EADCEK\|FARAM..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A0A1V0PXW0\|A0A1V0PXW0_9RHOB | VNE..E..GDLF\|VYRPLAHVA\|EADCAR\|FARAM..NYPVT\|P\|C\|..D..L\|CGSQ.. |
| tr\|A3JN68\|A3JN68_9RHOB | VNE..E..GDLF\|LYRPLAHVA\|EVDCEK\|FAQAL..NYPPIIT\|P\|C\|..D..L\|CGSQ.. |
| tr A0A1I1TL21 A0A1I1TL21_9RHOB | LNE..E..GDLF VYRPLAHVA EVDCEK FSRSM..QYPIIT P C ..D..L CGSQ.. |

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| tr A0A1H0JJ15 A0A1H0JJ15_9RHIZ | VND..E..GDLL VLRPLIQCA EAD AR FSAAM..RF PII PC .D... L CGSQ |
| tr\|A0A1N6PQL7\|A0A1N6PQL7_9RHIZ | LND..E..GDLT\|LLRPLAYAA\|EDDLAK\|FAGAM..QF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A074JAH3\|A0A074JAH3_9RHOB | VNE..E..GDLF\|VYRPLAFVA\|ESDCEK\|FATQM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A231UWT7\|A0A231UWT7_9RHIZ | LND..E..GDVE\|VLRPLALCA\|EADM\|AKLA\|EAL..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|I5BTQ6\|I5BTQ6_9RHIZ | LND..E..GDVM\|VLRPLSYCA\|ETDLAK\|FAEAM..KF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A084UBG3\|A0A084UBG3_9RHIZ | IND..E..GDVN\|VLRPLSFCAS\|EDLAR\|FADAM..KF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2S9IKS0\|A0A2S9IKS0_9RHIZ | VND..E..GDLM\|LLRPLAYAA\|EEDLEK\|FAAAM..RF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2K9ECD1\|A0A2K9ECD1_9RHOB | LNE..E..GDLN\|LLRPLAYIA\|ESDCDR\|FARAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A258ELF7\|A0A258ELF7_9RHOB | LNE..D..GDLF\|VARPLAFVA\|EEDCGK\|FAAAM..GY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2M8N1N7\|A0A2M8N1N7_9RHOB | LNE..D..GDLF\|VARPLAFVA\|EADCAR\|FAQAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A0Q6CSE7\|A0A0Q6CSE7_9RHIZ | LND..E..GDVM\|VLRPLISSA\|EDDI\|AKFTAAL..GF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2D7LFX0\|A0A2D7LFX0_9RHOB | VNE..E..KDLF\|VYRPLAYVA\|ETDCEK\|FSKQM..DY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2D8YFN5\|A0A2D8YFN5_9RHOB | LND..A..GDLF\|VLRPLITCA\|EDDLAK\|FAEAM..EF\|PII\|PC\|.N...\|L\|CGSQ |
| tr\|A0A0M3T332\|A0A0M3T332_9RHIZ | LND..E..GDLF\|VLRPLVYAA\|EEDI\|EKFSQAM..QF\|PII\|PC\|.N...\|L\|CGSQ |
| tr\|A0A0M6XVB7\|A0A0M6XVB7_9RHOB | LND..E..GDLL\|VLRPLAHVA\|EADCDR\|FARAM..DY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|W6VXL4\|W6VXL4_9RHIZ | LND..E..GDMM\|VLRPLAYCA\|EDDLAK\|FAAAM..QF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|K2NTH0\|K2NTH0_9RHIZ | LND..E..GDMM\|VLRPLSYCA\|EVDLAK\|FADQM..RF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|K2MG66\|K2MG66_9RHIZ | LND..E..GDVM\|VLRPLSYCA\|EADLAR\|FADAM..RF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A0Q8IP21\|A0A0Q8IP21_9RHIZ | VND..E..GDLA\|VLRPLIYCA\|EEDLQK\|FSDAM..QF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A0F5FNU3\|A0A0F5FNU3_9RHIZ | LND..E..GDVE\|VLRPLIYCA\|EEDLAR\|FAEAM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A0F5LYW5\|A0A0F5LYW5_9RHIZ | LND..E..GDVE\|VLRPLIYCA\|EDDLQR\|FSDAM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1E4BZ93\|A0A1E4BZ93_9RHIZ | LNE..D..GETL\|VLRPLAYAA\|EDDI\|ARFATAM..QF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2W4Y544\|A0A2W4Y544_9RHOB | LNE..E..GDLF\|VLRPLAFVA\|EADCDR\|FARAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1G7GDx2\|A0A1G7GDx2_9RHOB | LNE..E..GDLT\|VLRPLAYVA\|EADCEK\|FARDM..AY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A238URK6\|A0A238URK6_9RHOB | LNE..D..GDLL\|VLRPLAYVA\|EADCEK\|FSRAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1E4FYF9\|A0A1E4FYF9_9RHIZ | VND..E..GDLE\|VLRPLIYCA\|EEDLQR\|FSDAM..QF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A0F5QJ07\|A0A0F5QJ07_9RHIZ | LND..E..GTVE\|VLRPLIFCA\|EDDLQK\|FSDAM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1G3G740\|A0A1G3G740_9RHOB | VNE..E..GDLF\|LYRPLAFVA\|EADCD\|FAKAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2S1C1I6\|A0A2S1C1I6_9RHOB | VNE..E..GDLF\|LARPLAFVP\|EADCDR\|FARAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1M7SPV7\|A0A1M7SPV7_9RHOB | LNE..E..GDLL\|VLRPLAFVA\|EADCAR\|FARAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|M9RLX6\|M9RLX6_9RHOB | LNE..Q..GDLF\|VFRPLAHVA\|EENCEK\|FSSSM..GY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A238K9T4\|A0A238K9T4_9RHOB | LNE..E..GDLF\|VYRPLAHVA\|EADCEK\|FASAM..GY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1Y5S1U1\|A0A1Y5S1U1_9RHOB | VNE..E..GDLF\|VYRPLAHVA\|EVDCEK\|FSTSM..GY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1I3LLP4\|A0A1I3LLP4_9RHOB | RND..E..GDLM\|VLRPLAHVA\|EADCEK\|FARDM..GY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1I3Z0S5\|A0A1I3Z0S5_9RHIZ | LND..E..GDVM\|VLRPLSYCA\|EADLAK\|FAGIM..QF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1T4LDM3\|A0A1T4LDM3_9RHIZ | VND..E..GDVM\|VLRPLIRAA\|EEDLGR\|FSAAL..GF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|C7D7D6\|C7D7D6_9RHOB | VND..E..GDLF\|LFRPLAHVA\|EADCEK\|FARAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A0R2TQ71\|A0A0R2TQ71_9RHOB | LNE..E..GDLF\|VYRPLAFVA\|EADCEK\|FAAAM..QY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1Q3KQX4\|A0A1Q3KQX4_9RHIZ | VND..E..GDVT\|VLRPLISLCA\|EADLAR\|FAEAM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2T7FWC9\|A0A2T7FWC9_9RHOB | VNE..E..GDLT\|VYRPLAHVA\|EADCEK\|FATAM..GY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2D7D4Q1\|A0A2D7D4Q1_9RHOB | VNE..E..GDLF\|LYRPLAHVA\|EQDCER\|FSRAL..KY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|B6B0B9\|B6B0B9_9RHOB | LNE..E..GDLF\|VYRPLAHVA\|EVDCEK\|FASAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1H3LLW2\|A0A1H3LLW2_9RHOB | VNE..E..GDLF\|VYRPLAHVA\|EVDCEK\|FARDL..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1I0XGW3\|A0A1I0XGW3_9RHOB | LNE..E..GDVF\|VYRPLAHVA\|EADCEK\|FARAM..SY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|LONFM3\|LONFM3_9RHIZ | LND..E..GDLL\|VLRPLAYCA\|EDDLAR\|FAQAM..EF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A0Q6EW32\|A0A0Q6EW32_9RHIZ | LND..E..GDLF\|VLRPLIRSA\|EEDLAR\|FAAAL..DV\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2G6IVP7\|A0A2G6IVP7_9RHOB | LND..A..GDLF\|VYRPLAHVA\|EADCEK\|FANSM..NY\|PII\|PC\|.G...\|L\|CGSQ |
| tr\|A0A2D9RGP6\|A0A2D9RGP6_9RHOB | LND..E..GDVM\|VLRPLIRSE\|EADI\|EKFASGM..NF\|PII\|PC\|.T...\|L\|CGSQ |
| tr\|A0A0K0TWP8\|A0A0K0TWP8_9RHIZ | LND..E..GDVQ\|VLRPLIYCA\|EPDLAR\|FAEVM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2Y9AFJ0\|A0A2Y9AFJ0_9RHOB | RND..E..GDLL\|VLRPLAHVA\|EADCEK\|FARAM..DY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1H8A7L7\|A0A1H8A7L7_9RHOB | KND..D..GDLF\|LYRPLAHVA\|EADCD\|FARAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A081MIH6\|A0A081MIH6_9RHIZ | LND..E..GDLF\|VLRPLAYCA\|EDDLAR\|FSAAM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2E2EWC2\|A0A2E2EWC2_9RHOB | LND..E..GDLF\|VYRPLAHVA\|EADCEK\|FSRAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A3VF87\|A3VF87_9RHOB | VNE..E..GDLF\|VFRPLAHVA\|EADCEK\|FSRDM..GY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1M5ABX1\|A0A1M5ABX1_9RHIZ | VNE..E..GDIF\|VLRPLAYAA\|EDDI\|ERFSSLM..QF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A059X5C8\|A0A059X5C8_9BACT | LND..E..GDLT\|VLRPLAYAA\|EADLAR\|FAGLM..NF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1M6C338\|A0A1M6C338_9RHIZ | LND..D..GDLL\|VLRPLIASS\|EGDI\|ARFAAAM..RF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1K2HSP5\|A0A1K2HSP5_9RHIZ | LND..E..GDVE\|VLRPLIYCA\|EDDLAR\|FAEAM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2G1QM78\|A0A2G1QM78_9RHIZ | VND..E..GDVE\|VLRPLAYCA\|EADLEK\|FARHM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1L3SU86\|A0A1L3SU86_9RHIZ | VND..D..GDVM\|VLRPLAYCGE\|KDLAR\|FADAM..RF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2EOITN2\|A0A2EOITN2_9RHOB | LND..E..GDVQ\|VLRPLSYCA\|ENDLEK\|FAVAM..KF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1M3KMG7\|A0A1M3KMG7_9RHIZ | LND..E..GDVE\|VLRPLIYCA\|EPDLAK\|FSELM..AF\|PII\|PC\|.D...\|L\|CGSQ |
| sp\|Q11IV8\|TTCA_CHESB | LND..E..GDVL\|VLRPLAYCA\|ETDLVK\|FAEGM..KF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1M2Z5F2\|A0A1M2Z5F2_9RHIZ | MND..E..GDVM\|VLRPLSYCA\|EADLAR\|FAEAM..RF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2S8EVT0\|A0A2S8EVT0_9RHOB | INE..E..GDLY\|VHRPLAFVA\|EEDCAR\|FARAM..RF\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A1U9JU25\|A0A1U9JU25_9RHIZ | LND..E..GDLT\|VLRPLVYAA\|EEDLAK\|FATHM..EF\|PII\|PC\|.N...\|L\|CGSQ |
| tr\|E6YQZ3\|E6YQZ3_9RHIZ | IND..E..KDLF\|VLRPLIYAA\|EEDI\|EKFSQAM..QF\|PII\|PC\|.N...\|FCGSQ |
| tr\|A0A2D9WU28\|A0A2D9WU28_9GAMM | LSD..D..GQNI\|LIRPLIYCR\|ESLI\|QWSDYR..RY\|PII\|PC\|.N...\|L\|CGSQ |
| tr\|A0A254R6N5\|A0A254R6N5_9RHOB | VNE..D..GDLF\|VYRPLAYVA\|EADCEK\|FARDM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|A0A2E1LQ03\|A0A2E1LQ03_9RHOB | IND..E..GDIE\|VLRPLITSA\|EADLEK\|FAAAL..DF\|PII\|PC\|.N...\|L\|CGSQ |
| tr\|A0A1I7CMN1\|A0A1I7CMN1_9RHOB | VNE..A..GDLF\|LYRPLAHVA\|EEDCDR\|FARAM..NY\|PII\|PC\|.D...\|L\|CGSQ |
| tr\|K1JJDA\|K1JJDA_9BURK | RSD..D..KRNV\|VIRPLAYVR\|ESETEK\|FAKIR..QY\|PLTSK..G...\|ICGAG |
| tr\|S3CA62\|S3CA62_9BURK | KND..R..GDCV\|VIRPLAYVR\|EAE\|TAKMAKIR..GY\|PLAAK..G...\|ICGAG |
| tr\|R7C157\|R7C157_9BURK | FSD..D..HNNT\|VIRPLIYVR\|EYENLK\|WAKIQ..EY\|PLAPK..D...\|ICGAG |
| tr\|H3KHG5\|H3KHG5_9BURK | RSD..D..KKNV\|VIRPLAYVR\|EYETEK\|YAKAK..GY\|PLAAK..G...\|ICGAG |
| tr\|A0A2H5W0L3\|A0A2H5W0L3_9BACT | LSD..D..GQNV\|VIRPLCYIF\|EDEIRQ\|YVPHHT..GA\|PVVPC..A..SPYCE.D |
| tr\|A0A0G4EZY9\|A0A0G4EZY9_9ALVE | VSES.R..GGIH\|VLRPLIRCL\|ESDI\|AEFARRG..GF\|PII\|PC\|.T...\|L\|CGSQ |
| tr\|A0A1G1MFT4\|A0A1G1MFT4_9BACT | ELFK..G..GKIV\|IIRPLAYVE\|ENLIRK\|FVKVE..KF\|PLYD..C..ICPNIF |
| tr\|D6YZP9\|D6YZP9_DESAT | RLFA..G..GRLH\|LIRPLALLSK\|EMIQQL\|GLRFL..AVA\|AVP..N..PCPLTD |
| tr\|Q1NPM6\|Q1NPM6_9DELT | HLFA..G..GRLQ\|LIRPLALLEK\|AMVH\|QLGELF..KVE\|AVA..N..PCPLTD |
| tr\|A0A1G1KMU0\|A0A1G1KMU0_9BACT | ELFG..G..GKIV\|IIRPLCYVG\|EDMLRK\|FAKES..KF\|PSQL..C..KCPNSR |
| tr\|A0A1V4Y2S8\|A0A1V4Y2S8_9DELT | PIFG..G..GATK\|IIRPLAYIR\|EELVKK\|YSRER..EF\|PILE..S..ACPTGP |
| tr\|A0A2HOM0T2\|A0A2HOM0T2_9BACT | VLFFK..G..GAIT\|IIRPLAYVD\|EDLIVK\|LAREL..EF\|PHHK..C..TCPNSV |
| tr\|A0A2G6NFX5\|A0A2G6NFX5_9DELT | TLFD..G..GALT\|VIRPLAFLD\|ESAET\|YSRQO..AF\|PICE..N..PCPSAG |
| tr\|A0A1V4XPE0\|A0A1V4XPE0_9DELT | PIFG..G..GKMH\|IIRPLTLIR\|EELIKK\|YSRER..NF\|PIIE..S..SCPTGS |
| tr\|A0A0F0CSK6\|A0A0F0CSK6_9BACT | ELFE..G..GRLT\|IIRPLCYVE\|EEMIKT\|FVKEH..GL\|PEQF..C..KCPFGK |
| tr\|A0A2H0LZG9\|A0A2H0LZG9_9BACT | ELFG..G..GKLT\|LIRPLAYVM\|EETIRG\|FAKTL..DF\|PIQR..C..KCPNSF |
| tr\|A0A1H7YYF0\|A0A1H7YYF0_9DELT | PIFG..G..GSMH\|IIRPLAYLR\|EELIKK\|YSRER..EF\|PIIE..S..SCPTGP |
| tr\|A0A1V5SHM5\|A0A1V5SHM5_9BACT | SIFG..G..GKMH\|IVRPLAYIK\|EELIKK\|YAREQ..EI\|PVIP..N..GCPSSR |
| tr\|A0A1G1Q3T7\|A0A1G1Q3T7_9BACT | PMFK..G..GKIS\|IIRPMCLVE\|EDMIGT\|YAKY..EL\|PNOL..C..KCPFGK |
| tr\|A0A2N5YRU6\|A0A2N5YRU6_9BACT | DMFE..G..GRIQ\|LIRPMILLN\|KNEVQD\|FSKLO..SF\|PGEKE..C..ICPWS |
| tr\|A0A1V5BSS2\|A0A1V5BSS2_9DELT | EMFD..G..GELA\|IIRPLAYVE\|EKELLRL\|LATKL..QL\|PVSG..S..DCPHGK |
| tr\|A0A1V4Y2C6\|A0A1V4Y2C6_9DELT | PIFG..G..GSMH\|IIRPLTYIR\|EELIKK\|YSRER..EF\|PIVE..S..SCPTNP |
| tr\|A0A2M7F5M5\|A0A2M7F5M5_9BACT | ELFK..G..GDLY\|LIRPLAYCR\|EEMIRE\|YARQH..GL\|PVRE..E..ACQEGGP |
| tr\|A0A2G6GY47\|A0A2G6GY47_9BACT | RMFD..G..GRIE\|LIRPLDLD\|ERLLGD\|YAERA..DLV\|KIEK..H..CPHED |
| tr\|A0A2L1GPK6\|A0A2L1GPK6_9DELT | RLFR..G..GQLT\|VIRPLAYVE\|KADIAA\|ALAMN..RLQ\|PVA..S..SCPLAG |
| tr\|A8ZUJ5\|A8ZUJ5_DES0H | PMFG..G..GKVT\|LVRPLALAD\|EKDIQR\|FAGHL..RF\|PEFK..N..PCPSAE |
| tr\|A0A1E7JE91\|A0A1E7JE91_9DELT | PEFG..G..GKLT\|VIRPLAFLD\|ESTISR\|FAENQ..GF\|PEFK..N..SCPTAK |
| tr\|A0A1V5KTE6\|A0A1V5KTE6_9BACT | RIKN..G..GRFH\|LLRPLVFE\|EALIKR\|FAAEF..AI\|CFPS..Q..QCPTDG |
| tr\|A0A1G3NZH6\|A0A1G3NZH6_9SP1R | KYNK..G..FPCT\|IIRPLAYVR\|EEIIN\|YAGKM..DILS\|IV..C..TCPFGK |
| tr\|A0A1V5CAM1\|A0A1V5CAM1_9DELT | EMFK..G..GKVF\|IIRPLAYVQ\|EKELKR\|VAAKL..EL\|PVIR..S..QCINGE |
| tr\|A0A1I7LC33\|A0A1I7LC33_9BACT | EMFK..G..GKVI\|LIRPLIFVE\|KMDLSR\|FVKAQ..GWE\|ILE..N..PCPFS |
| tr A0A1G1LQR4 A0A1G1LQR4_9BACT | ELFG..G..GKIT IIRPLAYER ENNMVN LAKKL..NIES IGGQS..KCANDE |

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| tr A0A1V5I5K2 A0A1V5I5K2_9SPIR | SMFG...GEFD | IIRPLGLLAKREVRDYARLI..GFPTAGM...ECPWSE |
| tr\|A0A1Y1CNQ1\|A0A1Y1CNQ1_9BACT | SMFQ...GNII | LIRPLILLLKDAEMREYSRIR..KFVLEKE...LCPHQD |
| tr\|A0A1Y1S2G7\|A0A1Y1S2G7_9SPIO | KYDR...YPQR | VIRPLCYIKEREIVEFAELM..GFSTYA..T.SCPYQG |
| tr\|A0A2N2Z2D1\|A0A2N2Z2D1_9BACT | SMFE...GDLR | IIRPLITVHDKELVEYNSYM..GFDEITS...LCPYED |
| tr\|A0A1V6ALY3\|A0A1V6ALY3_9DELT | SIFG...GKLG | IIRPLAYLTEDLVKKYSRER..QFPTVA..N.ECPTSG |
| tr\|A0A0W8FQ52\|A0A0W8FQ52_9ZZZZ | SIFG...GKLG | IIRPLAYLQEEELIKKYSKER..QFPTVT..N.DCPTSI |
| tr\|E4T2Z7\|E4T2Z7_PALPW | KMKN...FDMA | IIRPLALISEKEMKEMERIE..AYQKQIK..N.NCPHEK |
| tr\|A0A1G1KVT8\|A0A1G1KVT8_9BACT | ELFD...GKVT | IIRPLAYERETMIRLAQRL..NITQIG..QS.KCANEE |
| tr\|A0A2N2HPG2\|A0A2N2HPG2_9DELT | EFFG...GKLV | IIRPLAYLEGLVKKYAREQ..GIPAVK..N.NCPTSD |
| tr\|A0A2G6MFG2\|A0A2G6MFG2_9DELT | ELFE...GNLH | VIRPLAYCHKAEVEKIGRMF..GFKGIP..S.SCPILSE |
| tr\|A0A0Q1C8R9\|A0A0Q1C8R9_9DELT | SIFG...GKLG | IIRPLTYLQEEELIKKYSKER..RFVVLK..N.NCPTSK |
| tr\|A0A1V6ISQ0\|A0A1V6ISQ0_9DELT | SIFG...GKLG | IIRPLVYLSALVKKYSRER..RFVVLK..N.DCPTSK |
| tr\|A0A091FEB2\|A0A091FEB2_9DELT | SIFG...GKLG | IIRPLAYLQEEELVKKYSRER..QFPAVK..N.DCPTSL |
| tr\|A0A2N7PKR2\|A0A2N7PKR2_9BACT | EMFK...GDLY | LIRPLFYVEKDMISRFVKQR..GWRILE..N.NCPTSE |
| tr\|A0A2N2G9N5\|A0A2N2G9N5_9DELT | SIFG...GKLG | IIRPLSYLRDELVKKYSRER..QFPTVK..N.NCPTSE |
| tr\|A0A2N2LS17\|A0A2N2LS17_9DELT | SIFG...GKLG | IIRPLAYLRDELVKKYSREQ..EFPAVK..N.NCPTSE |
| tr\|A0A1W9PYD7\|A0A1W9PYD7_9DELT | PMFG...GKVT | IIRPLAFADESDIRFSKHS..GFPFSK..N.NCPTSAE |
| tr\|A0A0U5AFN2\|A0A0U5AFN2_9BACT | EMFK...GTLY | LIRPLFYVEKDMISRFVAKM..GWDVLE..N.NCPTSG |
| tr\|A0A0N0D6Q9\|A0A0N0D6Q9_9DELT | SLFQ...GKLT | VIRPLAYTSDIIRHFVKS..QLPEFI..N.NCPTSV |
| tr\|A0A1F9B7K1\|A0A1F9B7K1_9DELT | KIFG...GKLG | IIRPLAYLRDELIKKYQRE..FFPTVE..N.NCPTSK |
| tr\|A0A1V5K7L8\|A0A1V5K7L8_9BACT | GIFS...GTLH | IIRPLVYVREELIKKYSRER..GFPVVK..N.NCPTSA |
| tr\|E8RFH6\|E8RFH6_DESPD | ELFA...GRLS | LIRPLAYLDKSEIAAIGGEL..GLEPVR..S.TCPLSE |
| tr\|A0A177E5Z2\|A0A177E5Z2_9BACT | EMFK...GELY | IIRPMTFVEKKLISAYAKAE..NLPVFS..N.NCPTSA |
| tr\|A0A1W9PEQ4\|A0A1W9PEQ4_9BACT | SVFR...GKFH | IIRPLIYIEEALKKFALEQ..HFPLLN..N.NCPTSE |
| tr\|A0A1G1CL22\|A0A1G1CL22_9BACT | SLFK...GALA | LIRPLSLIEEDKIQAIVKLR..ALPEVK..D.CCPSRG |
| tr\|A0A1M7AKX7\|A0A1M7AKX7_9DELT | EFFG...GEIT | VIRPLAYTDEKNIAFYFARAM..NMPETIE..N.NCPTSG |
| tr\|A0A1E7H3V6\|A0A1E7H3V6_9DELT | TFFD...GKLT | VIRPLAFTDKKLIARFARKN..NLPDLT..N.NCPTSAQ |
| tr\|A0A1V4XEJ8\|A0A1V4XEJ8_9DELT | EIFG...GRLH | IIRPLAYLRDELVKKYARQR..RLPETE..N.NCPTSR |
| tr\|A0A1F9LPM9\|A0A1F9LPM9_9DELT | KIFD...DRVS | LIRPMAYLEKGEIREIAATL..GIQPVK..N.NCPTSD |
| tr\|A0A1V5DP79\|A0A1V5DP79_9DELT | RIFG...GKLG | IIRPLAYLPKVIKKYSQER..CFPTVK..N.NCPTSE |
| tr\|A0A2N2KLB2\|A0A2N2KLB2_9DELT | RIFG...GKLG | IIRPLAYLPDELVKKYSRER..QFPAIK..N.NCPTSE |
| tr\|K0NEP7\|K0NEP7_DESTT | AFFN...GAID | IIRPLSYVDKEDIRFGOLF..DLPFEK..N.NCPTSA |
| tr\|R5PGT4\|R5PGT4_9BACT | SMFG...GSFT | LIRPFIYLTNETVRYAQYR..GFRKQKK..N.NCPTSE |
| tr\|A0A2G6FDN7\|A0A2G6FDN7_9DELT | ELFD...GELS | VIRPLAYCDKQETSSLVNKL..DLTPVS..S.DCPLSE |
| tr\|A0A2G6NS68\|A0A2G6NS68_9DELT | DFFN...GRFK | IIRPLCLVDKDKIKSFIKTS..GLPVFK..N.NCPTSG |
| tr\|F8C1Q1\|F8C1Q1_THEGP | EMFK...GKLY | IIRPLILVEKDLISRFVKKM..NWKVLE..N.NCPTSK |
| tr\|A0A2N2J4R6\|A0A2N2J4R6_9DELT | KIFG...GKLG | IIRPLAYLRDELVKKYSQER..QIPVFK..N.NCPTSL |
| tr\|A0A175JL87\|A0A175JL87_ENTHI | TEK...YGVK | FIRPLIEVPVVFIQEWTKYI..ELPRLI..N.NCPTSE |
| tr\|A0A2N7QB7\|A0A2N7QB7_9BACT | EMFK...GKLY | IIRPLILVEKDLISRFVKKM..GWNLE..N.NCPTSK |
| tr\|A0A1V4CH87\|A0A1V4CH87_9DELT | DMFE...GELA | IIRPLAYVEKELLKLSRQM..NLPITA..S.ACPHSQ |
| tr\|A0A1F3PRW0\|A0A1F3PRW0_9BACT | KMFS...GRVL | LVRPLLFHLEKDVQQYSYDR..NFKLIEK..N.NCPTSD |
| tr\|A0A1F9NE61\|A0A1F9NE61_9DELT | SFFQ...GTLD | IIRPLSYVEKDKIVRFAQSS..GLPEFR..N.NCPTSA |
| tr\|A0A0S8HC42\|A0A0S8HC42_9BACT | RMFN...GRID | LIRPLLTIPENELAYYAGLK..NLKEHEK..N.NCPTSD |
| tr\|A0A1T5DAY4\|A0A1T5DAY4_9BACT | KMDK...FDMT | LIRPLCLVEEKELIRIAEWK..GYKKLLK..N.NCPTSE |
| tr\|A0A2N6C0V8\|A0A2N6C0V8_9DELT | ELFK...GNLA | IIRPLAFLQKQETELAEPL..GFAPVA..N.NCPTLG |
| tr\|A0A1V5PLF0\|A0A1V5PLF0_9BACT | YAD...GINI | VIRPLVYVEKDIKAYADYM..KFPETIE..N.NCPTSG |
| tr\|A0A2G6GMA7\|A0A2G6GMA7_9DELT | SFFD...GALD | IIRPLSYVESDDIQAQLSQAL..EMPVEF..N.NCPTSA |
| tr\|A0A1F3EKI2\|A0A1F3EKI2_9BACT | KMFE...GKLS | VIRPLMLLSNEIKKEFAAIR..RFKNEIK..N.NCPTSK |
| tr\|A0A0S8K9N6\|A0A0S8K9N6_9BACT | EVFA...GKYR | IIRPLAYIDEFLLKRFAGEY..QLPVLP..N.NCPTQI |
| tr\|A0A2J6HPZ6\|A0A2J6HPZ6_9BACT | DMFD...GAIQ | AIRPLILLTNKDTSEFARIR..NYPPLKA..N.NCPTSE |
| tr\|C7XC62\|C7XC62_9BACT | RMDK...GRME | IIRPMCLVEERELIQVAWK..GYRKQLK..N.NCPTSE |
| tr\|A0A1F8ZX57\|A0A1F8ZX57_9DELT | SLFK...GRLT | IIRPLALLEENRIKHFTRRR..GLPETP..N.NCPTSA |
| tr\|A0A2J6I6B5\|A0A2J6I6B5_9BACT | KMFS...GEIE | IIRPLILLTNKDTTEFAKIK..NYPPLKK..N.NCPTSD |
| tr\|A0A0F8WA15\|A0A0F8WA15_9ZZZZ | TMFE...GRIR | LIRPLLFIPETLIEYANVR..NFKLEK..N.NCPTSE |
| tr\|A0A179D358\|A0A179D358_9BACT | EMFG...GKLY | LIRPLVLVEKESLKAYAQKE..GFPIVE..N.NCPTSG |
| tr\|I5B503\|I5B503_9DELT | SFFG...GHFN | IIRPLSYIEKHEINSFAKVY..NLPFEV..N.NCPTSA |
| tr\|A0A0S7YQR2\|A0A0S7YQR2_9DELT | PFFK...GLFT | VIRPLALVEELIRRFARQQ..NFPFRF..N.NCPTSA |
| tr\|A0A2N1RRG9\|A0A2N1RRG9_9SPIR | PMFG...GEFD | LIRPLILLLGEIREYAVLK..KYPPOVK..LCPHGD |
| tr\|A0A1V5PXE4\|A0A1V5PXE4_9CHLR | EYFG...GQLT | LIRPLIYVTEAETIRPYARAC..GWEFPEL..N.NCPTSK |
| tr\|A0A1W1HKF9\|A0A1W1HKF9_9DELT | DFFG...GELT | IIRPLAYLEKSELKLAIF..DFPDEF..N.NCPTSD |
| tr\|A0A1G3QGUS\|A0A1G3QGUS_9SPIR | SMFG...GEFD | IIRPLILHLEKDVREYARIR..GFPTEKS..N.NCPTSD |
| tr\|A0A1Y3VSZ0\|A0A1Y3VSZ0_9BACT | EMFK...NTFT | LIRPLIYLSNDETSRYAEMR..QFKKQKK..N.NCPTSK |
| tr\|A0A0S8HXB5\|A0A0S8HXB5_9DELT | SYFR...GEFH | LIRPFAYTDEYLLKRFAGEA..GLPVMK..N.NCPTAD |
| tr\|A0A2J0MG88\|A0A2J0MG88_9BACT | EMFK...GKLS | IIRPLAYVDEDDIELARLN..HLPVPH..N.NCPTNT |
| tr\|A0A2N5YKJ4\|A0A2N5YKJ4_9BACT | SFFD...GKFD | IIRPLILISEPETIRYSEIY..SFPDEEQ..N.NCPTSE |
| tr\|A0A0C3M8X7\|A0A0C3M8X7_9PORP | EMFG...GTLF | IIRPLIYLGNAETLKYATLR..QFKQKK..N.NCPTSK |
| tr\|A0A1Q6ILQ5\|A0A1Q6ILQ5_9BACT | AMFD...RTFT | LIRPFIYLTDEETTRYAAYR..NFKKQKK..N.NCPTSK |
| tr\|A0A235BV29\|A0A235BV29_9BACT | ELFK...GGII | VIRPLIYIDKTMITNYLKQA..RIRSV..N.NCPTSE |
| tr\|C0QKM8\|C0QKM8_DESAH | SFFD...GTLE | IIRPLAYVEKRRIVLSSESL..GFPAFK..N.NCPTSD |
| tr\|A0A1G3KZR6\|A0A1G3KZR6_9SPIR | QLFK...GDLS | IIRPLGLLLKEIEAIVSQEM..GFIPAT..N.NCPTAD |
| tr\|A0A0S8CMA5\|A0A0S8CMA5_9DELT | ELFN...GRVH | IIRPMAYLEKDDIEIAAAA..DIIPVK..N.NCPTDN |
| tr\|A0A1F9KX79\|A0A1F9KX79_9DELT | SFFG...GKLD | IIRPLSYVEKDKIVKFAQSL..GLPEFR..N.NCPTSA |
| tr\|A0A1V1WWT4\|A0A1V1WWT4_9DELT | PFFG...GTLD | VIRPLAYVHEQAIARFAQDH..NFPDCE..N.NCPTAK |
| tr\|A0A1V5D1F3\|A0A1V5D1F3_9DELT | EMFE...GELA | IIRPLAYVEKELARLATIL..ELPVAA..N.NCPTSK |
| tr\|R5UPE7\|R5UPE7_9BACT | AMFD...GTFT | LIRPFIYITNAETQYAYR..NFRKQKK..N.NCPTSE |
| tr\|A0A1W9N5C1\|A0A1W9N5C1_9DELT | SLFQ...GRFT | VIRPLAFTDENIRRFATSR..HFPFV..N.NCPTSA |
| tr\|A0A1V4WN49\|A0A1V4WN49_9DELT | EMFD...GELA | IIRPLAYVEKELTRLATIL..DLPVIA..N.NCPTSG |
| tr\|A0A1G5FPP5\|A0A1G5FPP5_9DELT | SMFG...GEVT | VIRPLYLAEESDVRFASEQ..GLPVYS..N.NCPTSA |
| tr\|A0A0S8CTV5\|A0A0S8CTV5_9DELT | KLFD...GRTH | IIRPMAYLEKDDIEIAAAA..SIVPVK..N.NCPTDN |
| tr\|A0A1W9LXP4\|A0A1W9LXP4_9DELT | PFFN...GKIN | VIRPLAFADDELIARFAKAQ..GFPNFV..N.NCPTSA |
| tr\|A0A1W9TE89\|A0A1W9TE89_9DELT | SFFQ...NKYT | IIRPLAFADDEVIIRFAREQ..AFPDEFV..N.NCPTSA |
| tr\|A0A1W9MR5\|A0A1W9MR5_9DELT | EMFE...GRFV | IIRPLAFADDELIIRFGARR..GFPETI..N.NCPTSA |
| tr\|A0A1F9XAQ0\|A0A1F9XAQ0_9BACT | KMFN...GEFD | LIRPMVLEEKSIREYVKKM..NIPHST..N.NCPTSE |
| tr\|A0A2N1TLK9\|A0A2N1TLK9_9SPIR | AVFD...GKLE | IIRPLALLAEKIAEYARIR..AFPPOKK..N.NCPTSE |
| tr\|A0A2J0L3R7\|A0A2J0L3R7_9BACT | KMFG...GELY | LIRPLAYVEYELARFAEEC..KFPKLP..N.NCPTSD |
| tr\|S7VA23\|S7VA23_DESML | PFFQ...GAFT | VIRPLAFSDEEVIIRFAKEM..AFPDEFV..N.NCPTSA |
| tr\|A0A0S8AN01\|A0A0S8AN01_9DELT | KLFA...GRIH | IIRPMAYLEKDDIEIAAAA..AIMPVK..N.NCPTDN |
| tr\|A0A1V6ILX3\|A0A1V6ILX3_9DELT | ELFE...GRLA | IIRPLAYVEELARLASML..SLPVVS..N.NCPTSM |
| tr\|A0A1G1LWP2\|A0A1G1LWP2_9BACT | ELFD...GKLT | IIRPLAYVREAMVRLAQEL..GIAGMG..QS.KCAND |
| tr\|A0A2N6C2B7\|A0A2N6C2B7_9DELT | KLFN...GRIH | IIRPMAYLEKDDIEIAVTA..SIVPVK..N.NCPTDN |
| tr\|A0A0S8D245\|A0A0S8D245_9BACT | KLFN...GRVH | IIRPMAYLEKKNIEIAAAA..SIMPVK..N.NCPTDE |
| tr\|A0A1W9XBN0\|A0A1W9XBN0_9DELT | PFFQ...GRFT | VIRPLAFADDEMIIRRFARTR..HFPDEFV..N.NCPTAK |
| tr\|A0A0S8CT17\|A0A0S8CT17_9BACT | EFFN...GKVT | AIRPLMYLDENTIQRYAKSM..EWPRI..N.NCPTAG |
| tr\|A0A2H0A696\|A0A2H0A696_9DELT | PFFK...GKIS | VIRPLAYVEENIRRIAKDR..EFPFV..N.NCPTAA |
| tr\|A0A1F9DQR6\|A0A1F9DQR6_9DELT | EFFG...GSIT | VIRPFYMDERTIERAYELM..GFPRI..N.NCPTAG |
| tr\|A0A2H0Y7C6\|A0A2H0Y7C6_9BACT | ELFK...GKIT | LIRPLAYVEHMKRFAKEE..GLPNQT..N.NCPTSK |
| tr\|A0A2H0LLJ5\|A0A2H0LLJ5_9BACT | ELFK...GAIT | IIRPLAYVDEDLIKLAKVL..EFPHHK..N.NCPTSK |
| tr\|A0A255TIW6\|A0A255TIW6_9BACT | HMRK...MPIT | IIRPLCYCEKDIREYATIEA..GYQKQVK..N.NCPTSE |
| tr\|A0A0S8IL95\|A0A0S8IL95_9BACT | SLFN...GKIT | VIRPLCYVEDMINRRCRES..KLSHNT..N.NCPTSE |
| tr\|A0A1V6BW42\|A0A1V6BW42_9SPIR | KYKK...FDLT | IIRPLADIKEDIRFAKEK..SYQNLG..N.NCPTSA |
| tr\|A0A1V5X014\|A0A1V5X014_9BACT | ELFK...GKIT | IIRPLAYVEEMIKFAREE..NIPHDR..N.NCPTSK |
| tr\|A0A1G3LC27\|A0A1G3LC27_9SPIR | KYDK...YDIT | IIRPLADIKEDIRFAKEK..SYQNLG..N.NCPTSA |
| tr\|A0A1F9X0A6\|A0A1F9X0A6_9BACT | NMFE...GKFH | LIRPMVYIEKTIIRQYVSKM..KIPHST..N.NCPTSK |

tr|K0TEQ7|K0TEQ7_THAOC
tr|A0A1F7WSR4|A0A1F7WSR4_9BACT
tr|A0A1V5UNH9|A0A1V5UNH9_9BACT
tr|D8EW05|D8EW05_9DELTA
tr|A0A2M7WL85|A0A2M7WL85_9BACT
tr|A0A2N2L507|A0A2N2L507_9DELTA
tr|A0A2V8MSX9|A0A2V8MSX9_9BACT
tr|A0A2V8IYI6|A0A2V8IYI6_9BACT
tr|A0A1Q7Q2X8|A0A1Q7Q2X8_9BACT
tr|A0A1E7FQ90|A0A1E7FQ90_9STRA
tr|W0E7L8|W0E7L8_MARPU
tr|W0DRV9|W0DRV9_9GAMM
tr|A0A0U5IH88|A0A0U5IH88_9GAMM
tr|A0A1F6SXEO|A0A1F6SXEO_9PROT
tr|A0A259RK82|A0A259RK82_9GAMM
tr|A0A2M7W840|A0A2M7W840_9PROT
tr|A0A1V5H9F1|A0A1V5H9F1_9BACT
tr|A0A0W1RTX5|A0A0W1RTX5_9GAMM
tr|H1G0J5|H1G0J5_9GAMM
tr|A0A1N6HH77|A0A1N6HH77_9GAMM
tr|I3CE71|I3CE71_9GAMM
tr|A0A1H6FDH4|A0A1H6FDH4_9GAMM
tr|A0A1Z4VND3|A0A1Z4VND3_9GAMM
tr|A0A191ZII6|A0A191ZII6_9GAMM
tr|A0A1B1YWK5|A0A1B1YWK5_9GAMM
tr|A0A0G3G524|A0A0G3G524_9GAMM
tr|A0A1V2ZXF9|A0A1V2ZXF9_9GAMM
tr|A0A0T5Z793|A0A0T5Z793_9GAMM
tr|A0A167BM25|A0A167BM25_9GAMM
tr|A0A1V6FEE6|A0A1V6FEE6_9BACT
tr|I3YFC1|I3YFC1_THIV6
tr|A0A1V3NV21|A0A1V3NV21_9GAMM
tr|D3RS48|D3RS48_ALLVD
tr|A0A212A5R9|A0A212A5R9_9GAMM
tr|A0A0S8L2L3|A0A0S8L2L3_9PROT
tr|A0A251X597|A0A251X597_9GAMM
tr|A1AAMW5|A1AAMW5_RUTMC
tr|A0A2A4Y8M7|A0A2A4Y8M7_9GAMM
tr|S6AB33|S6AB33_9PROT
tr|B7J9K8|B7J9K8_ACIF2
tr|A0A2N2ADN2|A0A2N2ADN2_9GAMM
tr|A0A1Y1QE10|A0A1Y1QE10_9GAMM
tr|A0A1Y1QFH0|A0A1Y1QFH0_9GAMM
tr|A0A1G5QYX5|A0A1G5QYX5_9GAMM
tr|A0A1I4R3K0|A0A1I4R3K0_ECTMO
tr|A0A0S8A3Y3|A0A0S8A3Y3_9GAMM
tr|A0A1I1V1C9|A0A1I1V1C9_9GAMM
tr|A0A2S0KWB3|A0A2S0KWB3_9BACT
tr|A0A1W9L8C2|A0A1W9L8C2_9GAMM
tr|A0A0S7ZXH3|A0A0S7ZXH3_9GAMM
tr|A0A1F3X099|A0A1F3X099_9PROT
tr|A0A1G0KZY9|A0A1G0KZY9_9GAMM
tr|A0A1W9X6P0|A0A1W9X6P0_9GAMM
tr|F6DB14|F6DB14_THICA
tr|A0A1V5UV62|A0A1V5UV62_9BACT
tr|A0A1T2LC98|A0A1T2LC98_9GAMM
tr|A0A2N9YAV2|A0A2N9YAV2_9GAMM
tr|A0A2H6JDM1|A0A2H6JDM1_9BACT
tr|A0A1Q4GEE4|A0A1Q4GEE4_9PROT
tr|A0A257SZR7|A0A257SZR7_9GAMM
tr|A0A1J4Z8U3|A0A1J4Z8U3_9PROT
tr|A0A258YXM3|A0A258YXM3_9PROT
tr|A0A2G6DJM5|A0A2G6DJM5_9PROT
tr|A0A2V2H125|A0A2V2H125_9BACT
tr|S6BUZ7|S6BUZ7_9GAMM
tr|A0A1W1DV63|A0A1W1DV63_9ZZZZ
tr|A0A1W1DVN7|A0A1W1DVN7_9ZZZZ
tr|LOGXD5|LOGXD5_9GAMM
tr|A0A1B4V026|A0A1B4V026_9GAMM
tr|A0A1C2G3X4|A0A1C2G3X4_9GAMM
tr|A0A1T2L835|A0A1T2L835_9GAMM
tr|A0A1Y0G9Z9|A0A1Y0G9Z9_9PROT
tr|A0A090ADU8|A0A090ADU8_9GAMM
tr|A0A0M1J7T8|A0A0M1J7T8_9GAMM
tr|A0A2G6C8I0|A0A2G6C8I0_9GAMM
tr|W0TIV9|W0TIV9_9GAMM
tr|A5CWN0|A5CWN0_VESOH
tr|A0A0E9MCP1|A0A0E9MCP1_9PROT
tr|V4JHL8|V4JHL8_9GAMM
tr|A0A1P8UKQ4|A0A1P8UKQ4_9GAMM
tr|A0A0S8DUY2|A0A0S8DUY2_9GAMM
tr|H8Z182|H8Z182_9GAMM
tr|A0A1F6TVT2|A0A1F6TVT2_9PROT
tr|A0A1E2UNR3|A0A1E2UNR3_9GAMM
tr|A0A2T6NDJ0|A0A2T6NDJ0_9GAMM
tr|A0A1H6M1D9|A0A1H6M1D9_9GAMM
tr|E6QSG6|E6QSG6_9ZZZZ
tr|A0A1W1CJ00|A0A1W1CJ00_9ZZZZ
tr|A0A2N6TKT8|A0A2N6TKT8_FUSNU
tr|A0A133ZWE3|A0A133ZWE3_9FUSO
tr|A0A1G3X6G4|A0A1G3X6G4_9BACT
tr|U7UME2|U7UME2_9FIRM
tr|C9MWY3|C9MWY3_9FUSO
tr|A0A2X2N7I0|A0A2X2N7I0_9FUSO
tr|U2RCS2|U2RCS2_9FUSO
tr|E3HAQ4|E3HAQ4_ILYPC
tr|D7N7Y7|D7N7Y7_9FIRM
tr|B6FWA2|B6FWA2_9FIRM
tr|A0A1V5HMD1|A0A1V5HMD1_9BACT
tr|EONJU2|EONJU2_9FIRM
tr|D1AP34|D1AP34_SEBTE
tr|A0A134AL16|A0A134AL16_9FIRM
tr|A0A120KNK8|A0A120KNK8_9FUSO

R|SAA.R...DIH|VLRPLISCV|ENDIAE|FAREM..NF|FILPC|.N...|LCGSQ
D|SS..G...KKFR|VIRPLMYVS|EDTTQK|YCAKM..EF|PAITC|.C.CPQ|SCAG
E|VG..S...KKFR|VIRPLMYVS|EDTTQK|YCAKM..EF|PAITC|.C.CPQ|SCAG
E|LFG...GKLT|LIRPLYLDD|EDLIRRY|YGEKM..DF|PEIR|.L.NCP|SA..G
Q|AD..D...KPIT|VIRPLYVVF|ERETMR|YAIES..EF|PVVCC|.K.CP|ICG
S|IFD...GKLT|LIRPLAYLKE|ELVKKY|SRER..QF|PTVK|.N.CCP|TS..H
Q|SQ..K...GNVR|LIRPLVYVT|EDLS TE|YARAQ..GF|LP IAC|.V...|CSEK
Q|SQ..K...GNVR|LIRPLVYVN|EALSRE|YARTQ..GF|LP IAC|.V...|CSEK
Q|SQ..K...GNVR|LIRPLVYVT|EDLSME|YARAQ..GF|LP IAC|.V...|CSEK
T|SQ..R...GKLA|VMRPLIKSF|EKDIEE|YAQLS..KF|PILPC|.N...|LCKNQ
R|NQ..E...GDLR|VIRPLAYCR|ERQTAD|FAAHA..GL|PVVPD|.S.CP|ACFT
R|ID..A...GDLR|VIRPLVYVR|ERQTRD|FARTA..EL|PVIAD|.N.CP|ACFA
L|NN..E...GDVR|LIRPLVYCR|ERQTAD|YAERA..EL|PVVMD|.S.CP|ACFS
L|ND..A...GDVR|LIRPLVYVR|ERQTRD|FAERO..GL|PAIRD|.N.CP|ACFT
L|ND..A...GDVR|LIRPLVYVR|ERQTRD|FATQN..QL|PVIRD|.N.CP|ACFA
A|VR..E...GDLR|VIRPMALVR|ERQNRAY|YVAEA..GI|PVIEE|.N.CP|ACLMEEK
A|ADA.G...SRR|LIRPLYRVPK|VIRTA|AAEL..AL|PTFS|.N.CP|ADLM
L|ND..A...GDVR|LIRPLVTVR|ESALAD|FARRN..DL|PVIPT|.N.CP|ACFA
R|IE..A...GDLR|VIRPLVYAR|ERRIRD|FAHKA..GL|PIMEE|.N.CP|TRFG
L|NN..E...GDLR|LIRPLVYVR|ENQCR|FAEQ..NL|PVIPT|.N.CP|ACYS
T|ND..A...GDLR|LIRPLIYVR|ERQTAD|FAKSA..KL|PIILD|.N.CP|ACFT
T|ID..A...GDLR|VIRPLVYVR|ERQTRD|FAQQA..AL|PIILD|.S.CP|ACFS
R|ND..D...GDLR|LIRPLVYVR|ERQTRD|FAASA..GF|PVIRD|.N.CP|ACFR
R|ND..A...GDLR|LIRPFVVRV|ERQTRD|FARTN..GL|PVIKD|.N.CP|ACFA
T|ND..D...GDLR|VIRPLVYAR|ERQTRD|FAESA..PL|PVIPT|.N.CP|CDS
A|ID..A...GDLR|VIRPLVYVR|ERQTRD|FADAA..GL|PVILD|.N.CP|ACFA
R|ID..A...GDLR|VIRPLVYVR|ERQTRD|FAEAA..GL|PVILD|.N.CP|ACFS
R|ND..A...GDLR|LIRPLVYCR|ESMTGA|FARDA..GL|PIITP|.S.CP|ACFT
R|IE..S...GDLR|VIRPLVYAR|ERQTRD|FARSA..AL|PIQEE|.N.CP|TRYG
A|ADG.G...SKR|LIRPLCTISK|ARISALA|AQL..DY|PAVK|.N.CP|QEDL
T|NQ..E...GDVR|VIRPLVYCR|ERQTAD|YAVRA..GL|PVIPT|.S.CP|ACFS
C|ID..A...GDLR|VIRPLVYVR|ERQTAD|FARAA..GL|PVISE|.N.CP|ACFD
R|NQ..D...GDVR|LIRPLVYCR|ERQTAD|FARRA..GL|PVIPT|.S.CP|ACFT
L|NN..E...KDIR|VIRPLVYVR|ESQTR|FAEAA..GL|PVITD|.N.CP|ACYS
V|ID..A...GDLR|VIRPFYVVR|ERQTHD|FASRA..GL|PAIVD|.N.CP|ACFR
Q|ID..T...GDLR|VIRPLVYVR|ERQTA|FAKAA..QL|PVVPD|.N.CP|ACFT
I|ND..A...KDLR|LIRPLAYVR|ERQTRD|LANFAKTI..CL|PVIKD|.S.CP|ACYQ
Q|ND..A...GDVR|VIRPLVYVR|ERQTRD|YAKAA..GL|PVIAD|.S.CP|ACFQ
L|ND..A...GDVR|VIRPFAYVR|ERQTRD|YVQSA..AL|PIITP|.N.CP|ACFG
R|VR..E...GDLR|VIRPLVYCR|ERQTRD|FATEQ..AL|PVIEH|.N.CP|ACFG
T|ID..A...GDLR|VIRPLIYVR|ERQTRD|FAEAA..QL|PVIPE|.N.CP|ACFD
R|ID..A...GDLR|VIRPLVMVR|ERQTRD|FAKAA..AL|PVIVE|.N.CP|MCFD
V|ND..V...GDLR|LIRPLVYAR|ERQTRD|FAQSA..EL|PVIPT|.N.CP|ACFA
R|IQ..E...GDLR|VIRPLVYAR|ERQTRD|YARGA..GL|PVQAE|.H.CP|ARGR
V|ID..D...GDLR|VIRPLIYAR|ERQTRD|YATEC..NL|PVVAD|.S.CP|SCFG
R|IN..A...GDLR|VIRPFALVR|ERQTRD|FAERA..GL|PVIPT|.S.CP|ACFG
A|AKA.K...EGIR|LIRPFVLAP|ESLIVR|CREER..EL|PQAGK|.N.CP|YAEAL
T|ND..T...GDVR|VIRPLVYAR|ERQTRD|FAHAA..NL|PIITP|.N.CP|ACFA
Y|NE..H...RDVR|VIRPMIYVR|ERQTRD|YAKEA..GL|PLIAE|.S.CP|ACVI
V|ND..A...GDLR|LIRPFYIAR|ERQTRD|FAQNA..PL|PVVHE|.N.CP|ACFG
L|NK..E...GDLR|VIRPLVYVR|ERQTRD|FAFQA..GL|PVVPD|.S.CP|ACFT
T|ND..A...GDVR|LIRPLVFA|ERQTRD|FAKEA..QL|PVIPT|.S.CP|ACFT
L|NN..E...KDIR|LIRPFVVRV|ERQTRD|FAASA..GL|PVIPT|.N.CP|ACFA
P|AEE.H...EVR|LIRPLAFAP|ESLLAG|IAAEM..EL|PVIRGE|.N.CP|YKNEL
T|NR..E...GDVR|LIRPLAYVR|ERQTRD|FAKNA..NL|PVIPT|.S.CP|ACFS
T|ND..A...GDLR|VIRPLIYAR|ERQTRD|FAKAT..QL|PVIPT|.N.CP|ACFS
R|ND..A...GDLR|LIRPLIYAR|ERQTRD|FAFARA..SL|PVIPT|.N.CP|ACFG
L|ND..A...GDLR|LIRPFAYAR|ERQTRD|FAADA..GL|PVIFE|.N.CP|ACFA
R|ND..A...GDVR|VIRPLIYVR|ERQTRD|FAHMA..AL|PVISE|.N.CP|ACFG
Q|ID..A...GDLR|VIRPLIYAR|ERQTRD|FAIHA..GL|PVIAE|.N.CP|ACFA
L|ND..A...GDLR|LIRPFAYAR|ERQTRD|FAIDA..AL|PVIIS|.N.CP|CFFA
R|VD..A...GDLR|VIRPLVYAR|ERQTRD|FAQTA..GL|PVIIE|.N.CP|ACFD
P|AKS.E...PGVR|LIRPFALAP|ESLIK|SLCTQW..DL|PAAGK|.N.CP|YETEL
V|ND..A...GDLR|VIRPLVYVR|ERQTRD|FATDA..GL|PIITP|.S.CP|ACFS
I|ND..A...KDLR|LIRPMVYVR|ERQTRD|FAKTA..DL|PVIAD|.S.CP|ACFS
I|ND..D...KDLR|VIRPMVYVR|ERQTRD|FAKTT..DL|PVIAD|.S.CP|ACFS
R|ND..A...GDLR|LIRPLAYCR|ERQTRD|FAFAEA..GL|PVVPD|.S.CP|ACFT
R|ND..A...GDLR|VIRPLVYVR|ERQTRD|FAFARA..AL|PVVTD|.N.CP|ACFR
R|VD..A...GDLR|VIRPFYIAR|ERQTRD|FAFARA..AL|PVIPT|.N.CP|ACFR
L|ND..A...GDVR|LIRPLVYAR|ERQTRD|FAFAEA..EL|PVIFE|.N.CP|ACFE
T|ND..A...GDVR|LIRPLVYAR|ERQTRD|FAKSA..NL|PVVQE|.N.CP|ACFS
T|ND..T...GDLR|VIRPLIYVR|ERQTRD|FAQSA..QL|PVIAD|.S.CP|ACFA
L|ND..A...GDLR|VIRPLVYCR|ERQTRD|FANTA..NL|PVIID|.N.CP|ACFA
L|ND..A...GDLR|LIRPLVYVR|ERQTRD|FAKEQ..EL|PVIIE|.N.CP|ACFS
L|ND..A...GDLR|LIRPLVYVR|ERQTRD|FAQAA..GL|PIITP|.S.CP|ACFT
I|ND..A...KDLR|VIRPLTYAR|ERQTRD|FAKIT..HL|PVIKD|.S.CP|ACYQ
L|ND..K...GDLR|VIRPFYAR|ERQTRD|FAKNS..EL|PVIFE|.N.CP|ACFG
R|ND..A...GDLR|LIRPLAYCR|ERQTRD|YAIKA..EL|PVVPD|.S.CP|ACFS
V|TD..A...GDLR|VIRPLVYAR|ERQTRD|FAQAA..AL|PIITE|.N.CP|ACCG
L|ND..E...GDVR|LIRPFYIAR|ERQTRD|FAFAEA..RL|PVIAD|.S.CP|ACFT
R|ID..A...GDLR|VIRPLVYCR|ERQTRD|CAYETA..AL|PVVPD|.S.CP|ACFD
V|ND..A...GDLR|VIRPFVYAR|ERQTRD|FARSA..AL|PVIAD|.N.CP|ACFR
V|ND..A...GDLR|LIRPLVYCR|ERQTRD|FAVKA..GL|PIITP|.S.CP|ACFT
L|ND..A...GDLR|LIRPLVYCR|ERQTRD|FAVEA..GL|PIITP|.S.CP|ACFT
I|ND..N...KDLR|VIRPMAYVR|ERQTRD|FAKSA..DL|PVIPT|.S.CP|ACFS
T|ND..A...GDLR|LIRPLVYAR|ERQTRD|FAQLA..NL|PVIIE|.N.CP|ACFA
V|ND..T...KDLR|LIRPLVYVR|ERQTRD|FANNH..NL|PIIKD|.N.CP|ACFE
P|STS.G...KMD|LIRPLAYVR|EKDIN|FMKHN..EI|QAMSC|.G.CP|IEAG
K|SDN.F...N.IE|LIRPLAYVE|EKDIN|KWRNN..GI|LMNC|.G.CT|YAAE
K|AEN.F...EDIE|LIRPMFVE|EKDIN|IRWTVRS..GI|QAMNC|.G.CT|YVAAE
H|SDN.F...ENME|LIRPMYVE|EAIKRF|MRFT..GLRPLDC|.A.CA|VTKR
P|STS.G...KLE|LIRPLIYVK|EADID|YTKTN..GI|RAMNC|.G.CT|IEAG
P|STS.G...NLT|LIRPMVNVH|EADID|YTKTN..GI|RAMNC|.G.CV|IEAG
K|STS.G...KLE|LIRPLIYVR|EADIE|YTKTN..GI|RAMNC|.G.CT|IEAG
K|STS.G...KLG|LIRPMIYVK|EADID|YTKTN..GI|SPMTG|.G.CP|IESG
H|SDN.F...EGLE|LIRPMYVE|EAIKRF|MRST..GLHALDC|.A.CA|IAEK
K|SKS.S...GEMQ|LIRPLIYIR|EYIKR|FVRYT..GI|EPLDC|.A.CT|VTSK
K|SKN.F...PGME|LIRPLIYFVW|EKDIN|FMKYI..GI|EAMSC|.G.CK|IGDG
K|AQN.F...ENME|LIRPMYVE|EADID|YTKTN..GI|TAMDC|.A.CT|VTSK
D|STS.G...KLG|LIRPLIYVE|EKDIN|YTKTN..GI|LAMNC|.G.CT|IEAG
H|ATN.F...EGME|LIRPMYIR|EDVRR|FVKAN..DLTPIDC|.A.CT|VTEK
L|STS.G...KLE|LIRPLIYVK|ESDID|YTRTN..GI|RAMNC|.G.CT|IEAG

tr|G4D179|G4D179_9FIRM
tr|A0A2N1QJ52|A0A2N1QJ52_9BACT
tr|D0GMS6|D0GMS6_9FUSO
tr|A0A0E3Z9Z8|A0A0E3Z9Z8_9FUSO
tr|A0A0941J11|A0A0941J11_9BACT
tr|A0A2N1Q4T2|A0A2N1Q4T2_9BACT
tr|A0A1W9SAA9|A0A1W9SAA9_9BACT
tr|A0A0E3UUB0|A0A0E3UUB0_9FUSO
tr|A0A2A1ZTD9|A0A2A1ZTD9_9BACT
tr|R5FR46|R5FR46_9FIRM
tr|U7VDB0|U7VDB0_9FUSO
tr|A0A1T4JV61|A0A1T4JV61_9FUSO
tr|A0A1E9ISJ7|A0A1E9ISJ7_9FUSO
tr|C3WD69|C3WD69_FUSMR
tr|A0A017H8K4|A0A017H8K4_9FUSO
tr|R5HS15|R5HS15_9MOLU
tr|A0A1W9W0E5|A0A1W9W0E5_9BACT
tr|A0A137SW00|A0A137SW00_9FIRM
tr|A0A2U1E5L2|A0A2U1E5L2_9FIRM
tr|A0A175JJ18|A0A175JJ18_ENTHI
tr|C3WD70|C3WD70_FUSMR
tr|A0A1W9TJ18|A0A1W9TJ18_9BACT
tr|A0A2G6MQK6|A0A2G6MQK6_9DELT
tr|A0A1W1BBY5|A0A1W1BBY5_9ZZZZ
tr|I7H559|I7H559_9HELI
tr|V8C7C8|V8C7C8_9HELI
tr|C3XIF2|C3XIF2_9HELI
tr|A0A1Y1RC03|A0A1Y1RC03_9PROT
tr|A0A1W1ED80|A0A1W1ED80_9ZZZZ
tr|A0A1W1CKY4|A0A1W1CKY4_9ZZZZ
tr|A0A1W9NWV6|A0A1W9NWV6_9PROT
tr|I2K6H1|I2K6H1_9PROT
tr|A0A1W1BSJ9|A0A1W1BSJ9_9ZZZZ
tr|A0A2G2M8Q2|A0A2G2M8Q2_9PROT
tr|A0A2G2MUF3|A0A2G2MUF3_9PROT
tr|E6X2C6|E6X2C6_NITSE
tr|A0A2G6GA80|A0A2G6GA80_9BACT
tr|A0A0S4PXK8|A0A0S4PXK8_9HELI
tr|Q7VFR3|Q7VFR3_HELHP
tr|A0A2D3WHB1|A0A2D3WHB1_9PROT
tr|A0A1W1EIA6|A0A1W1EIA6_9ZZZZ
tr|A0A1W1CNU7|A0A1W1CNU7_9ZZZZ
tr|A0A0C2ZBG5|A0A0C2ZBG5_9PROT
tr|A0A0S4XP57|A0A0S4XP57_9PROT
tr|A0A099TV95|A0A099TV95_9HELI
tr|A0A1W1E737|A0A1W1E737_9ZZZZ
tr|A0A268TK66|A0A268TK66_9HELI
tr|A0A268U7R3|A0A268U7R3_9HELI
tr|A0A268TAM2|A0A268TAM2_9HELI
tr|A0A268TTH0|A0A268TTH0_9HELI
tr|V8CIS8|V8CIS8_9HELI
tr|A0A1W1CJT9|A0A1W1CJT9_9ZZZZ
tr|G2HW59|G2HW59_9PROT
tr|A6DBX7|A6DBX7_9PROT
tr|A0A099DQ03|A0A099DQ03_9HELI
tr|A0A1V9VEV7|A0A1V9VEV7_9PROT
tr|C5ZWI6|C5ZWI6_9HELI
tr|A0A099VW01|A0A099VW01_9HELI
tr|A0A099TJT3|A0A099TJT3_9HELI
tr|A0A259HBH4|A0A259HBH4_9PROT
tr|Q3Q0R3|Q3Q0R3_SULDN
tr|A0A1G3US09|A0A1G3US09_9HELI
tr|I3XVB8|I3XVB8_SULBS
tr|B9L800|B9L800_NAUPA
tr|A0A2U8FFP3|A0A2U8FFP3_9HELI
tr|A0A2D5P7H2|A0A2D5P7H2_9PROT
tr|A0A268U8R8|A0A268U8R8_9HELI
tr|A0A1B1U570|A0A1B1U570_9HELI
tr|A0A099B6Z7|A0A099B6Z7_9HELI
tr|A0A0C2ZDN3|A0A0C2ZDN3_9PROT
tr|A0A292YDX3|A0A292YDX3_9PROT
tr|A7H006|A7H006_CAMC5
tr|U2F8G7|U2F8G7_9PROT
tr|E7G3J2|E7G3J2_9HELI
tr|H5VC43|H5VC43_HELBI
tr|A0A268U060|A0A268U060_9HELI
tr|A0A087M8T0|A0A087M8T0_9PROT
tr|A0A2A2GQP1|A0A2A2GQP1_9HELI
tr|A0A2A6W9V1|A0A2A6W9V1_HELPH
tr|A0A0C2Z9Q1|A0A0C2Z9Q1_9PROT
tr|B9CYD9|B9CYD9_CAMRE
tr|A0A2N1J2R6|A0A2N1J2R6_9PROT
tr|A0A0K2XD11|A0A0K2XD11_9HELI
tr|A0A1I5SJS5|A0A1I5SJS5_9PROT
tr|A0A1B3XCA3|A0A1B3XCA3_CAMCO
tr|A0A1B9FAV1|A0A1B9FAV1_9PROT
tr|A0A2X4PH55|A0A2X4PH55_HELMT
tr|T1D2B1|T1D2B1_9HELI
tr|A0A1Y5DTG6|A0A1Y5DTG6_9PROT
tr|A0A1W1CJN1|A0A1W1CJN1_9ZZZZ
tr|A0A1W1CXB3|A0A1W1CXB3_9ZZZZ
tr|A0A0A8GW05|A0A0A8GW05_9PROT
tr|A0A0A8H088|A0A0A8H088_9PROT
tr|A0A1W1WUK6|A0A1W1WUK6_9PROT
tr|A0A076FD18|A0A076FD18_9PROT
tr|A0A2G1YNP8|A0A2G1YNP8_9HELI
tr|A0A071LP71|A0A071LP71_9PROT
tr|A0A1W1BTA3|A0A1W1BTA3_9ZZZZ
tr|A6Q4A8|A6Q4A8_NITSB
tr|A0A0C2ZLF5|A0A0C2ZLF5_9PROT
tr|Q4HQZ0|Q4HQZ0_CAMUP
tr|A0A2D3W138|A0A2D3W138_9HELI
tr|A0A1W6BVM8|A0A1W6BVM8_9PROT

HSQN.F..EGLELIRPMYVREESVINFINST..GLHALDC..A.CEVAQK.
KSEN.Y..EGIELIRPMYFIKEDIERFRKYH..HLESMSC..G.CRIARN.
KSTS.G...NLSLIRPLIYVRADIEYTKEN..GIRPMNC..G.CTIEAG.
HNDN.F..D.IELIRPLFYVEKDIRRFVKEYT..DLTPMAC..G.CEYVAKG.
KSKN.F..EGLELIRPMYLIKEDIKIKLMDTN..NVVTMDK..G.CELQAC.
KQN.Y..EGLELIRPMYLIKEDVERFIKYH..NITINSK..G.CFFQER.
KSKN.Y..EGIELIRPMYLIKENDIERFVKEYH..DISFPSK..G.CEFQDR.
QSES.G...NLSLIRPMVYVHEEDINFTKSN..NIRAMSC..G.CRVEQN.
KQN.F..EGLELIRPMYLIKEDIIRLMEAN..DIHSMNC..G.CVVASG.
KSTN.H..PGMELIRPMVKIQEKDINFMAF..EISP..G.CKVAAAG.
KSTS.G...RLELIRPLIYIKENDINFTKKN..EIMAMAC..G.CPIESG.
KSTS.G...KLELIRPLIYIKEDIISYTEKN..EIQAMAC..G.CPIESG.
KSTS.G...KMELIRPMVYIKEDIAYTQRN..EIEAMGC..G.CPVESG.
SSTS.G...KMAVIRPLVYIKEDIAYTQRN..EIKAMSC..G.CPIESG.
SSTS.G...KLQVIRPLVYVKEODIKSFMKHN..EIEAMSC..G.CPVESD.
KDH.F..ENMYLIRPLIYVRKDIKVKFAQTN..ELKF..A.CSVTKK.
KSTS.G...KLSLIRPMVYIKESINFTKRN..GIKPMSC..G.CPVESG.
RSEN.F..EDMELIRPMYFIEESVRRYMRHI..GIEALDC..A.CSITEK.
DSAN.H..PGIKLIRPLIYLVGESDIKFRDYI..GLES..R.CVLSEG.
TTEK...YGIKFVIRPLIEVPVVLIQEWTKYI..ELPR..R.CKYEK.
VEE.Y...GVRVIRPLAYVEADIRYVKKQ..ELPVVAS..D.CPYETS.
KSET.G...KFEVIRPMVYVKEKNIAIYMSKK..NVELLNC..G.CDFENE.
SFFS...GRFDLIRPLSYVEKHQINSFAKVC..ELPQFV..NR.CPSAG.
KTS..R..GF.HLIRPLIEARERKQLQAFVDDN..NLNTIGD..ES.CPAMI.K.
RAE..N..GLE.VIRPLIFMRERQIDFIASN..GIYIAPD..CN.CPINWLD.
KAQ..N..GL.FVIRPMIFVVRERQIDFIASN..QIYIAPD..CN.CPINWLP.
KAQ..N..GL.GVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
RAE..N..GL.LVIRPMIMVREROLIDAALAN..HLPTIGD..EA.CPMR.F.
KTS..R..GF.HLIRPLIQARETOLRAFAVDN..NLQVIGD..EA.CPAML.K.
KTG..R..GF.HLIRPLIQARETOLRAFAVDN..HLQVIGD..EA.CPAML.K.
KTG..R..GF.HLIRPLIQARETOLRAFAVDN..NLQVIGD..EA.CPAML.K.
KTS..R..GF.HLIRPLIQARETOLRAFAVDN..NLQVIGD..EA.CPAML.K.
KTS..R..GF.HLIRPLIQARETOLRAFAVDN..NLQVIGD..EA.CPAML.K.
KAD..R..HGF.VVIRPLIEARERKQLQAFVDDN..NLNTIGD..ES.CPAMI.K.
KNK..H..NQ.TVIRPLICFLREKQLSDFTKKN..SFETAGD..EM.CPGIA..
RAQ..N..GL.EVIRPLIFVVRERQIDFIASN..YIYIAPD..CN.CPINWLD.
RAQ..N..GL.EVIRPLIFVVRERQIDFIASN..HIYIAPD..CN.CPINWLD.
KTG..R..GF.HLVIRPLIQVRESOLRAFAVDN..DLQTIGD..EA.CPAML.K.
KTE..R..GF.HLIRPLIEVRESOLRGFANDN..SFATIGD..EA.CPAML.K.
KTK..R..GF.HLIRPLIEVRESOLRGFANDN..NLQVIGD..EA.CPAML.K.
KTE..R..GF.HLIRPLIQARETOLRAFAVDN..SIQTIGD..ES.CPAMM.K.
KTN..R..GV.HLIRPLIQARETOLRAFAVDN..NIQTIGD..ES.CPAMM.K.
KAQ..N..GL.GVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
KTG..K..GF.HLIRPLIQVRESOLRGFANDN..NLQVIGD..EA.CPAML.K.
RAE..N..GL.HVIRPLIHIRETQIDFVKSQ..NIP..CN.CPAKQPD.
RAE..N..GL.GVIRPLIHIRETQIDFVKSQ..NIP..CN.CPAKQPD.
QAE..N..GL.HVIRPLIHIRETQIDFVKSQ..NIP..CN.CPAKQPD.
RAE..N..GL.EVIRPLIHIRETQIDFVKSQ..NIP..CN.CPAKQPD.
RAQ..N..GL.YVIRPLIFVVRERQIDFIANN..NIYIAPD..CN.CPINWLP.
TAA..N..GL.IVIRPLIQMREOLRAFAVDN..EISATIGD..EA.CPAMR.F.
KAE..N..GL.EVIRPLIFCREROLRAFANTN..EINVTIGD..EA.CPGLR.F.
KAN..S..GI.EVIRPMIKVRERKWIYEMVSKN..NFPIINGEES..CLAKD..S.
RAE..N..GL.EVIRPLIFVVRERQIDFIASN..SIYIAPD..CN.CPINWLD.
KAS..N..GL.EVIRPLIFCREROLRAFADSN..EIRVIGD..EA.CPGLR.F.
KAQ..N..GL.YVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
KAG..N..GL.FVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
KAQ..N..GL.GVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
KAQ..R..GF.HLIRPLIMVRESOLRGFANDN..GLVAIGD..EA.CPAML.K.
KAD..R..GV.IVIRPLIEMREROLRAFAVDN..NIETIGD..EA.CPMSMR.F.
KAD..R..GV.TVIRPLIQMREOLRAFAVDN..CIETIGD..EA.CPMSMR.F.
TAQ..N..GL.EVIRPLIHAREOLRDCAKEH..NMPTIGD..EA.CPAMR.F.
KAY..N..EI.EVIRPLIKVRERKWIYEMVSKN..NFPIIDGESS..CLAFNE..S.
KAE..N..GL.YVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
KAE..N..GL.EVIRPLIFCREROLRAFAVDN..EINVTIGD..EA.CPGLR.F.
KAE..N..GL.EVIRPLIHVRESOLRGFANDN..GLVAIGD..EA.CPAML.K.
QAE..N..GL.WVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
RAE..N..GL.QVIRPLIFVVRERQIDFIASN..GIYIAPD..CN.CPINWLP.
KTE..R..GF.HLIRPLIEVRESOLRGFANDN..NLQVIGD..EA.CPAML.K.
TAY..T..GL.EVIRPMIKVRERKWIYEMVSKN..NFPIIDGESS..CLAFNE..S.
KAK..N..GI.EVIRPFIFVVREROLRENAIRN..ELRVIGD..EA.CPAMR.F.
TAK..N..GI.TVIRPFIFVVREROLRENAIRN..ELRVIGD..EA.CPAMR.F.
KAE..N..GL.FVIRPLIHIRETQIDFVKSQ..NIP..CN.CPAKQPD.
KAE..N..GL.FVIRPLIHIRETQIDFVKSQ..NIP..CN.CPAKQPD.
KAE..N..GL.EVIRPLIFVVRERQIDFIASN..KIYIAPD..CN.CPINWLP.
KAQ..N..GL.GVIRPLIHVRESOLRGFANDN..KMPTIGD..EA.CPAMR.F.
KAQ..N..GL.GVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
RAE..N..GL.LVIRPLIKVREROLRAFAVDN..GIEATIGD..EA.CPAMR.F.
KTA..R..GF.HLIRPLIEIREOLRSFAKEN..EIEIIGD..EA.CPAMM.K.
VAA..N..GI.EVIRPFIFVVREROLRENAIRN..GLTVIGD..EA.CPAMR.F.
KAE..N..GL.EVIRPLIFCREROLRAFAVDN..EISVIGD..EA.CPAMR.F.
KAE..N..GL.FVIRPLIHIRETQIDFVKSQ..NIP..CN.CPAKQPD.
KSS..K..GF.HVIRPLIWVRESOLRGFANDN..GIATIGD..EA.CPAMA.M.
QSK..R..GI.TVIRPLIFVVREROLRDNAIRN..ELSVIGD..EF.CPGMK.LSE.
QSK..R..GV.IVIRPLIFVVREROLRDNAIRN..ELSVIGD..EF.CPGMK.LSE.
RAE..N..GI.QVIRPLIHIRETQIDFVKSQ..NIKTAPD..CN.CPAKQPD.
KAQ..N..GL.YVIRPLIFVVRERQIDFIASN..NIYIAPD..CN.CPINWLP.
KAE..N..GL.EVIRPLIFCREROLRAFAVDN..ELLVIGD..EA.CPAMR.F.
RAE..N..GL.IVIRPLIQMREOLRAFAVDN..GIEATIGD..EA.CPAMR.F.
KAE..N..GL.IVIRPLIQMREOLRAFAVDN..GIEATIGD..EA.CPAMR.F.
KSK..R..GI.EVIRPLIFVVREROLRENAIRN..ELEVIGD..EF.CPGMK.LSE.
KSK..R..GI.EVIRPLIFVVREROLRENAIRN..ELEVIGD..EF.CPGMK.LSE.
KTK..K..GL.YVIRPLIEIRETQIDFVKSQ..GFWAIGD..EA.CPAMR.F.
KAK..N..GL.IVIRPLINVREROLRDNAIRN..ELFVIGD..EA.CPAMR.F.
RAD..N..GL.IVIRPLIQMREOLSAFVDDN..NLNATIGD..EA.CPAMR.F.
TAK..N..GI.EVIRPFIFVVREROLRENAIRN..ELFVIGD..EA.CPAMR.F.
KAG..N..GL.YVIRPLIQVRESOLRGFANDN..GFEAIGD..EA.CPAMR.F.
KSS..K..GL.YVIRPLIEIRETQIDFVKSQ..GFEAIGD..EA.CPAMR.F.
KTE..R..GF.HLIRPLIGVRESOLRAFAVDN..QLSTIGD..EA.CPAML.K.
KSK..R..GI.TVIRPLIFVVREROLRDNAIRN..ELEVIGD..EF.CPGMK.LSE.
RAS..N..GL.VVIRPLIQMREOLRAFAVDN..NIQTIGD..EA.CPAMR.F.
RSK..R..GV.VVIRPLIFVVREROLKDNALIN..ELEVI..EF.CPGMK.LSE.

| | | | | | | | |
|--------------------------------|--------------|---------------|------------------|----------|---------|--------------------|--------|
| tr\|E4U1K2\|E4U1K2_SULKY | KAG..N..GL.I | VIRPLIQLRERQ | LAAACALEN..EM | PTTIGD | EA.CP | SMR.F | |
| tr\|A0A2N6GCJ3\|A0A2N6GCJ3_9HELI | KAD..N..GL.I | VIRPLIQMRERQ | LAFAADDN..SI | PTTIGD | EA.CP | SMR.F | |
| tr\|A0A2D3W7B7\|A0A2D3W7B7_9PROT | KAE..N..GL.E | VIRPLFIHIRER | LRDQAVRE..NM | PTTIGD | EA.CP | AMR.F | |
| tr\|A0A1W1D2X7\|A0A1W1D2X7_9ZZZZ | KAG..N..GL.I | VIRPLFIQMRER | LAFAVDEN..GF | YATIGD | EL.CP | SIH.F | |
| tr\|A0A2G2ANT9\|A0A2G2ANT9_9HELI | KAE..N..GL.I | VIRPLFIQMRER | LAFAVDEN..NL | NAIGD | EA.CP | AMR.F | |
| tr\|A0A091AJ11\|A0A091AJ11_9HELI | KAG..N..GL.I | VIRPLIQLRERQ | LAAACALEN..EM | PTTIGD | EA.CP | SMR.F | |
| tr\|A0A1B8J7N9\|A0A1B8J7N9_9HELI | RAE..N..GL.F | VIRPMIFVVER | QIIDFIASN..GI | YIAPD | CN.CP | INWLP | |
| tr\|A0A0B0Q4K1\|A0A0B0Q4K1_9PROT | KAQ..N..GL.V | VIRPLIHVVER | QLRECAKEH..GM | PVIGD | EA.CP | AMR.F | |
| tr\|T0JF06\|T0JF06_9HELI | RAD..N..GL.I | VIRPLIQMRERQ | LAFAVESN..NIA | AITGD | EA.CP | AMR.F | |
| tr\|A0A1J5FJW1\|A0A1J5FJW1_9HELI | KAE..N..GL.V | VIRPLIQMRERQ | LAFAVEEN..NIS | AITGD | ES.CP | SMR.F | |
| tr\|A0A2N6G706\|A0A2N6G706_9PROT | KAE..N..GL.E | VIRPLIFCRERQ | LAFAQTN..EIS | VIGD | EA.CP | AMR.F | |
| tr\|A0A2G2HKJ9\|A0A2G2HKJ9_9PROT | TAE..N..GL.E | VIRPLIFCRERQ | LAFAALKN..EIS | VIGD | EA.CP | AMR.F | |
| tr\|A0A1W9PM77\|A0A1W9PM77_9HELI | LAG..N..GL.V | IIRPLIQMRERQ | LAAAADIN..GW | PTIGD | EA.CP | SMR.F | |
| tr\|A0A2G6DDV7\|A0A2G6DDV7_9PROT | TAK..N..GL.I | LIRPLIHVVER | QLRDNATNN..HLE | VIGD | EV.CP | AMR.F | |
| tr\|A0A1J4TTL2\|A0A1J4TTL2_9HELI | KAG..N..GL.I | VIRPLIQMRERQ | LAAAADEN..SM | PTVGD | EA.CP | AMR.F | |
| tr\|A0A2P8QZA9\|A0A2P8QZA9_9PROT | TAE..N..GL.K | VIRPLILVVER | QLIDCAKNN..ELT | VSTDEDF | CPAT | TKGV | |
| tr\|E0UQV7\|E0UQV7_SULAO | TAQ..N..GL.V | VIRPLIQMRERQ | LAFAVDEN..GIE | AITGD | EA.CP | AMR.F | |
| tr\|C8FEU9\|C8FEU9_9PROT | VAE..N..GL.V | IIRPFILARERQ | IAAACARDN..KL | PIMREEV | CPARQ | Y. | |
| tr\|Q7MR20\|Q7MR20_WOLSU | RAY..N..GL.W | VIRPLIWLVER | QMVDVFLKN..NL | QTPL | CN.CP | AQ. | |
| tr\|A0A1X9STM1\|A0A1X9STM1_9PROT | TAK..N..GL.V | VIRPLINVER | QLRDNATRN..ELR | VIGD | EA.CP | AMR.F | |
| tr\|A0A128E9T0\|A0A128E9T0_9PROT | TAE..N..GL.V | VIRPLILARERQ | LRDCAIKN..EL | PIMNEEDS | CPAKQ | Y. | |
| tr\|J0LAR5\|J0LAR5_9HELI | EAG..N..GL.E | VVRPLIRVVER | QLTDGALK..GL | PLTIGD | DA.CP | ALR.F | |
| tr\|A0A1T2XPE8\|A0A1T2XPE8_9PROT | KAK..N..GL.E | VIRPLIFVVER | ERALRENAIRN..NLT | VVGD | EA.CP | AMR.F | |
| tr\|A0A1V4R692\|A0A1V4R692_9PROT | KAK..N..GL.Q | VIRPLIFCRERQ | LDGFAKEH..KIET | ISD | EN.CP | AFR.V | |
| tr\|A0A0E9F2V9\|A0A0E9F2V9_CHLTH | TAK..N..GL.V | LIRPLIFARERQ | IRDCAIKN..ELK | VVGD | EC.CP | PAYS.M | |
| tr\|A0A258ZKP3\|A0A258ZKP3_9HELI | KAE..N..GL.I | IIRPLIQLRERQ | LAAACAIEN..EM | PTVGD | EA.CP | SMR.F | |
| tr\|A0A2G2G5A2\|A0A2G2G5A2_9PROT | KAG..N..GL.I | IIRPLIQMRERQ | LAFAVDN..DLE | AITGD | EA.CP | AMR.F | |
| tr\|A0A1G3UGJ6\|A0A1G3UGJ6_9HELI | KAE..N..GL.I | VIRPLIQMRERQ | LAFAALDN..NI | PTIGD | ES.CP | SMR.F | |
| tr\|A0A1G3TFQ9\|A0A1G3TFQ9_9HELI | RAE..N..GL.I | VIRPLIQMRERQ | LAAACAVDN..SM | PTIGD | EA.CP | SMR.F | |
| tr\|A71189\|A71189_CAMCH | KAE..N..QI.V | IIRPLILARERQ | IRDCAIKN..EM | PIINEES | CPAKL | Y. | |
| tr\|A0A0C2V6R9\|A0A0C2V6R9_9HELI | KAE..R..GV.T | VIRPLIQVVER | QLIAAALDN..AM | PTVGD | EA.CP | SMR.F | |
| tr\|A0A2G2PC84\|A0A2G2PC84_9HELI | KAK..N..GL.I | VIRPLIQMRERQ | KAFAVEDN..NIE | AITGD | EA.CP | AMR.F | |
| tr\|G4E699\|G4E699_9GAMM | QID..A..GDLR | VIRPLVYVVER | QTAAFAQAV..GL | PVIYE | N.CP | ACFA | |
| tr\|A0A067A0H6\|A0A067A0H6_HYDMR | LNN..E..KDIR | IIRPFVVRVER | ENTRDFARSA..EL | PVIPD | N.CP | ACYA | |
| tr\|Q31J95\|Q31J95_HYDCU | LNN..E..KDIR | IIRPLVVRVER | STRAFSENA..EL | PIIPD | N.CP | ACYS | |
| tr\|A0A1A6C120\|A0A1A6C120_9GAMM | RID..A..GDLR | VIRPLVYARERQ | TRAFESA..HL | PVISE | N.CP | ACFA | |
| tr\|A0A257NW40\|A0A257NW40_9GAMM | RND..A..GDVR | IIRPFVVRVER | MLADFAAHN..HL | PVIKD | N.CP | ACFA | |
| tr\|A0A2H6G4E2\|A0A2H6G4E2_9BACT | TID..A..GDLQ | VIRPLVYVVER | QLTKFAEAA..KL | PVID | N.CP | ACFS | |
| tr\|A0A0X3T6D5\|A0A0X3T6D5_9GAMM | LNN..D..EDIR | IIRPLVVRVER | ENQRDFAETA..GL | PVIQD | N.CP | ACYA | |
| tr\|A0A1T4X6M8\|A0A1T4X6M8_9GAMM | RID..A..GDLR | IIRPLVQVVER | QTADFAKAA..GL | PVIME | N.CP | ACFD | |
| tr\|A0A211DJG6\|A0A211DJG6_9PROT | RVR..E..GDLR | VIRPLVYCRERQ | MRQHAEEO..QL | PVIYE | N.CP | ACFG | |
| tr\|F9ZRE2\|F9ZRE2_ACICS | RVR..E..GDLR | VIRPLAYCRERQ | TRDFAEAT..GL | PVIPE | N.CP | ACFA | |
| tr\|A0A1F6G6B2\|A0A1F6G6B2_9PROT | VND..A..GDLR | IIRPFVYARERQ | TRDFALRA..GL | PAIMD | N.CP | ACFR | |
| tr\|A0A1Z5HNK0\|A0A1Z5HNK0_9THEO | YLD..R..TGLT | VIRPLCYFRERE | IKGAFRFI..NYP | PVAS | PCPL | LNGR | |
| tr\|R5AS17\|R5AS17_9FIRM | RSRN.F..PGME | LIRPMYCIHEDDI | IAWQRYN..GLE | FTQC | ACRETE | HAAAH | |
| tr\|A0A2G3E2W8\|A0A2G3E2W8_9FIRM | HSTN.F..PGME | LIRPLYLIRER | EDIIRWMKLN..DLK | FTRC | ACRETE | MLEAE.VE | |
| tr\|A0A1I2CQ3\|A0A1I2CQ3_9FIRM | KSAN.W..TGME | LIRPMYVVER | EDIKNWRDEN..HLE | FTQC | ACRETE | QIADAN | |
| tr\|R9KLC2\|R9KLC2_9FIRM | HSTN.F..PGME | LIRPMYVVER | EDIMMRDYH..GL | GFLOC | ACRETES | CAQNSPIHPQPAASGKGS | GEGCAP |
| tr\|A0A174X0A0\|A0A174X0A0_9CLOT | HSTN.F..EGME | LLRPLYVVKER | EDIIDWKEEN..GLQ | FTQC | ACRETE | AIKERAMRAENTA | DGM |
| tr\|A0A0D0QQ0Q\|A0A0D0QQ0Q_9FIRM | HSTN.F..EGME | LIRPMYLIRER | EDDIKAWRDYN..KL | GFLOC | ACHFT | DTCTCTCS | |
| tr\|A0A174KCC2\|A0A174KCC2_CLOSY | HSTN.F..EGME | LIRPLYLVKER | EDIILAWKDYN..GLR | FTQC | ACRETE | AAEAV.AG | |
| tr\|R9L8Q4\|R9L8Q4_9FIRM | HSTN.F..EGME | LIRPMYLIRER | ESDIKAWRDYN..NLT | FTQC | ACKET | QNSVFV.N | |
| tr\|A0A1H5TPC7\|A0A1H5TPC7_9FIRM | HSTN.F..EGME | LVRLPLYLIRER | EDIIKWMNYN..NLK | FTNC | ACRM | TERLADSEDA | |
| tr\|A0A1G6DDH6\|A0A1G6DDH6_9FIRM | HSEH.F..EGME | LIRPLYLVVER | ADVIGWAKHN..GLE | FTQC | ACRETE | DEYTHSGD | |
| tr\|A0A1G9SUV6\|A0A1G9SUV6_9FIRM | HSTN.F..EGME | LIRPMYLIRER | EDIKHWCSYN..KLE | FTAC | ACRM | TEALADEN.S | |
| tr\|R6C5Q7\|R6C5Q7_9FIRM | HKN.Y..EGME | LIRPMYMKER | EDILRWVAHN..DLH | FTRC | ACRETE | SYENLE | |
| tr\|R5WT82\|R5WT82_9FIRM | HSTN.F..EGME | LIRPMYLIRER | EDIHWNYN..GLR | FTRC | ACRETE | QCADEE.T | |
| tr\|A0A1Q6RFH7\|A0A1Q6RFH7_9FIRM | RSKN.F..PGME | LIRPLYCVHER | EDAIWKNYN..HLQ | FTQC | ACRETE | EREAA | |
| tr\|W0U949\|W0U949_9FIRM | HSTN.Y..AGME | LIRPLYMVKER | EDIRWVEQN..DLH | FTRC | ACRETE | SYEGLE | |
| tr\|A0A143Y538\|A0A143Y538_9LACT | PSKN.Y..EGME | LIRPLYKVKER | EDIITWKDYN..ELA | FTQC | ACCET | ENCAILNN | |
| tr\|A0A1I5VEX7\|A0A1I5VEX7_9FIRM | HKN.F..PDME | LVRLPLYCVHER | EDIIDWKNYN..HLR | FTQC | ACRETE | SRDAI | |
| tr\|A0A1K1PC37\|A0A1K1PC37_9FIRM | HSEH.F..EGME | LIRPLYMVER | EDDIHWCERN..GLE | FTQC | ACRETE | SVHMSGD | |
| tr\|A0A1G5I8B0\|A0A1G5I8B0_9FIRM | HSTN.F..EGME | LIRPMYLVVER | ESDIKAWRDYN..DLH | FTQC | ACHFT | TECTCTCRE | |
| tr\|A0A2W7JTA9\|A0A2W7JTA9_9BACT | RQN.F..DGME | LIRPMYCIHEDDI | VNWTKYN..GLE | FTQC | ACRM | TSRTAEQEACAID | N |
| tr\|A0A1G9E946\|A0A1G9E946_9CLOT | RSTN.F..EGME | LIRPMYLVVER | EDIKWRDDN..GLR | FTQC | ACRETE | MLEKEKGF | |
| tr\|A0A2M9A852\|A0A2M9A852_9BACT | RQN.Y..PGMT | LIRPLYKIHEDDI | IAWSRAN..NLN | FTQC | ACRETE | KNFEN | |
| tr\|E6UAU2\|E6UAU2_RUMA7 | HSTN.Y..EGMQ | LIRPMYVVER | EDIIRWKQYN..DLQ | FTQC | ACRETE | ENCTMCDN | |
| tr\|G5HHM3\|G5HHM3_9FIRM | HSTN.F..EGME | LIRPLYVVKER | EDIILAWRSCN..GLH | FTQC | ACRETE | QIAREQAAGMD | G |
| tr\|A0A1D3TNX5\|A0A1D3TNX5_9FIRM | HSTN.F..KGME | LIRPLYLVKER | EDIITWKNYH..GLK | FTQC | ACRETE | MTSQEHA | |
| tr\|A0A2P6URX3\|A0A2P6URX3_9BACT | HQN.F..PGMT | LIRPLYKIHEDDI | IAWMRAN..ELQ | FTQC | ACRETE | RNAVS | |
| tr\|A0A1M6RMG6\|A0A1M6RMG6_9BACT | HQN.F..AGMT | LIRPMYCIHEDDI | VAKWKN..RLE | FTQC | ACHFT | ESIAYS | |
| tr\|A0A1C6IZU3\|A0A1C6IZU3_9FIRM | RSRN.F..PGME | LIRPLYCVHER | EDAIWKNYN..GLR | FTQC | ACRETE | ERDGA | |
| tr\|R9LUH7\|R9LUH7_9FIRM | HKN.F..PGME | LIRPLYCVHER | EDAVTAWKNYN..QLR | FTQC | ACRETE | ARDAS | |
| tr\|J1H3X4\|J1H3X4_9CLOT | PSTN.F..PGME | IIRPLYLVVER | ERDVLAWKRYN..SLE | FVRC | GCPL | SENAPVCTE | |
| tr\|A0A176U8C8\|A0A176U8C8_9FIRM | HSTN.F..EGME | LIRPMYCIHEDDI | IWKRYN..ELE | FTQC | ACRETE | NCTMC | |
| tr\|A0A1Q6KUQ8\|A0A1Q6KUQ8_9FIRM | HSTN.F..EGME | LIRPMYCIHEDDI | IWMNYN..GLE | FTQC | ACRETE | NYTLN | |
| tr\|R5ALL4\|R5ALL4_9CLOT | HKN.F..PGMS | LIRPMYCIHEDDI | VAKVQN..GLR | FTQC | ACRETE | QCEGD | |
| tr\|A0A1Y4RIL6\|A0A1Y4RIL6_9FIRM | HSTN.F..PGME | LIRPLYVVER | EDIILAWKDYN..GLR | FTQC | ACRETE | QIAKERAAGDA | A |
| tr\|E9SA84\|E9SA84_RUMAL | HSTN.F..EGMQ | LIRPLYMVER | EDIKWCERN..GLE | FTQC | ACRETE | EREVYDD | |
| tr\|R7IB10\|R7IB10_9FIRM | RSRN.F..PGME | LIRPMYCIHEDDI | CAWRDFN..ALH | FIAC | ACRL | TEERDKS | |
| tr\|A0A2A7B516\|A0A2A7B516_9FIRM | HSTN.F..PGMT | LIRPMYCIHEDDI | IAWRRYN..ELE | FTQC | ACRETE | NCTMC | |
| tr\|A0A1Q6SWI6\|A0A1Q6SWI6_9FIRM | HSTN.F..PGMT | LIRPMYCIHEDDI | IAWRRYN..ELE | FTQC | ACRETE | NCTMC | |
| tr\|R6ZNC4\|R6ZNC4_9CLOT | HSTN.F..EGME | LIRPLYLVKER | EDIIAWRDFN..NLR | FTQC | ACRETE | AI..SRE | |
| tr\|COCTY6\|COCTY6_9FIRM | HSTN.F..PGME | LIRPLYLVKER | EDIILDKDYN..GLH | FTQC | ACRETE | QIARDMEARGAA | K |
| tr\|E2NTX2\|E2NTX2_CATMR | HKN.F..KGME | LIRPMYLVVER | EDIIAWAEKF..NLK | FTQC | ACRETE | SEARG | |
| tr\|A0A212JBS4\|A0A212JBS4_9FIRM | HKN.F..EGME | LIRPMYCIHEDDI | IAWKRYN..DLE | FTQC | ACRETE | NCTMC | |
| tr\|A0A1C5XK44\|A0A1C5XK44_9CLOT | HKN.F..EGME | LIRPMYCIHEDDI | LDWKRYN..NLQ | FTQC | ACRETE | NCAIC | |
| tr\|A0A1M2Z8D3\|A0A1M2Z8D3_9FIRM | HSTN.F..PGME | LIRPMYCIHEDDI | IRKNYN..ELS | FTQC | ACRETE | NCTMC | |
| tr\|A0A1H2SZG7\|A0A1H2SZG7_9FIRM | HSDH.Y..DGL | VIRPLFKVER | EDAIINWRAN..DLT | FTNC | ACRETE | EGCSL..I | |
| tr\|A9KRA1\|A9KRA1_LACP7 | HSTN.F..EGME | LIRPMYVVKER | EDAILHWKQFH..ELQ | FTQC | ACRETE | NCTLCDN | |
| tr\|A0A2J8B726\|A0A2J8B726_9FIRM | HQN.F..PGME | LIRPLYLVVER | EDILAWCSYH..QLD | FTRC | ACRETE | QSEAE | |
| tr\|A0A252CN16\|A0A252CN16_9FIRM | RSRN.F..AGME | LIRPLYLVVER | EDIIAWKDYN..QLT | FTQC | ACRETE | MYADQPS | |
| tr\|A0A1I5J0S5\|A0A1I5J0S5_9FIRM | HSTN.Y..KGME | LIRPLYMVKER | EDIIAWKRYN..NLQ | FTQC | ACRETE | NCTVLDGN | |
| tr\|A0A2N3RZR2\|A0A2N3RZR2_9BACT | RQN.F..EGME | LIRPMYCIHEDDI | IAWRRYN..ELE | FTQC | ACRL | TLNTAVN | |
| tr\|R9IVG3\|R9IVG3_9FIRM | HSTN.F..PGME | LIRPMYVVER | EDIKWRDYN..GLQ | FTQC | ACRETE | CAAVND | |
| tr\|EORWJ2\|EORWJ2_BUTPB | HSTN.F..KGME | LIRPLYLVVER | EDIVHWMNYN..ELK | FTRC | ACKL | TEQLEKEGNL | |
| tr\|A0A1M6RWL0\|A0A1M6RWL0_9BACT | SLN.F..GME | LIRPMYCIHEDDI | INWKRYN..GLQ | FTQC | ACRETE | ESC | D |
| tr\|A0A2U1BER2\|A0A2U1BER2_9FIRM | HSTN.F..AGME | LIRPLYCIHEDDI | IAWKQYN..NLE | FTQC | ACRETE | NCTMC | |
| tr\|A0A1Y4IPQ2\|A0A1Y4IPQ2_9FIRM | HSTN.F..EGME | LIRPMYLVVER | EDAILDWARCH..DLH | FTQC | ACRETE | EAYEVD | |
| tr\|A0A2P8EHL9\|A0A2P8EHL9_9FUSO | HKN.F..PGME | LIRPMYCIHEDDI | IAWRRYN..QLE | FTQC | ACRETE | SCEAQ | |
| tr\|A0A2V2F820\|A0A2V2F820_9FIRM | HSTN.F..AGME | LIRPLYCVHER | EDIIAWKRYN..ELE | FTQC | ACRETE | NCTMC | |
| tr\|R7FQ76\|R7FQ76_9CLOT | KSTS.F..GGME | LIRPMYLVVER | EDIINWKKN..GLQ | FTQC | ACRETE | NCAICDN | |
| tr\|A0A1F2PGJ4\|A0A1F2PGJ4_9FIRM | KSN.F..ENME | LIRPMYLIRER | EDIISWKLHN..DLQ | FTQC | ACRETE | NCTMIS.D | |

| | |
|---------------------------------|---|
| tr\|D5HJ18\|D5HJ18_9FIRM | HS\|TN.F..EGME\|LIRPLYMVR\|EDDI\|KAWRDYN..ELHFIQ\|..ACKF\|TDTCTTCN.. |
| tr\|A0A1C5QB90\|A0A1C5QB90_9FIRM | HS\|QH.F..EGME\|LIRPLYLVH\|EDAI\|KSWRDYN..GLHFIQ\|..ACRF\|TENCVSCGG.. |
| tr\|A0A1H9TDF0\|A0A1H9TDF0_9FIRM | HS\|TN.F..EGLE\|LIRPLYLVRE\|EDDI\|IKWREYN..ELYFIQ\|..ACRF\|TDETTSSLMGN.. |
| tr\|A0A1C5SKP23\|A0A1C5KP23_9CLOT | HS\|QN.F..EGME\|LIRPLYLVKE\|EDAI\|KAWRDSN..DLHFIQ\|..ACRF\|TENCTSCGG.. |
| tr\|R5C7F1\|R5C7F1_9FIRM | K\|TN.F..DGME\|LIRPLYFIR\|EDDI\|KAWRDEN..HLHFIQ\|..ACRF\|TDTCTTCAVTPESS.. |
| tr\|R6LWZ2\|R6LWZ2_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDAN..DLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|R5R1U1\|R5R1U1_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KAWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|C9KJ69\|C9KJ69_9FIRM | K\|TS.C..PGME\|LIRPLYYIH\|EDAI\|KWRDDN..GLYFIQ\|..ACRF\|TETCSTCH.. |
| tr\|R6WDB5\|R6WDB5_9FIRM | HS\|SN.F..EGME\|LIRPLYLVIR\|EDDI\|KAWRDAN..GLHFIQ\|..ACRF\|TDTCCSSCDK.. |
| tr\|R7BJZ6\|R7BJZ6_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KAWRDAN..ELKFIQ\|..ACRF\|TDTCCSSCAE.. |
| tr\|A0A2S6HN32\|A0A2S6HN32_9BACE | HS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KWRDYN..DLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A0A1H5UR13\|A0A1H5UR13_9FIRM | HS\|TN.F..PGME\|LIRPMYLR\|EADV\|KWRDYN..KLHFIQ\|..ACRF\|TEISKNOQE.. |
| tr\|B5CL75\|B5CL75_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDAI\|KAWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A1Q9JUJ6\|A0A1Q9JUJ6_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KWRDYN..NLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A0A1I6X423\|A0A1I6X423_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDAN..GLHFIQ\|..ACRF\|TDTCSAIDP.. |
| tr\|R7R0R4\|R7R0R4_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..GLHFIQ\|..ACRF\|TDTCTTCN.. |
| tr\|A0A1T4PUK5\|A0A1T4PUK5_9FIRM | RS\|TN.F..SGME\|LIRPMYLR\|ESDV\|KWRDYN..DLKFIQ\|..ACRF\|TEKSSAREE.. |
| tr\|A0A174N7L5\|A0A174N7L5_9FIRM | HS\|QN.F..EGME\|LIRPMYLR\|ESA\|KAWRDTN..GLHFIQ\|..ACRF\|TENCVSCGG.. |
| tr\|A0A1C5VPX6\|A0A1C5VPX6_9FIRM | HS\|QN.F..EGME\|LIRPMYLR\|ESGI\|KAWRDYN..KLQFIQ\|..ACRF\|TENCSTCGG.. |
| tr\|U2EG64\|U2EG64_9FIRM | HS\|TN.F..EGMQ\|LIRPMYLR\|EADI\|KWRDYN..DLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A0A1T4LYU6\|A0A1T4LYU6_9FIRM | K\|TN.F..EGME\|LIRPMYLR\|ESDI\|KWRDYN..KLHFIQ\|..ACRF\|TETCTTIQTD.. |
| tr\|C2KWR4\|C2KWR4_9FIRM | HS\|TN.F..EGME\|LIRPLYVVR\|EKDI\|HWRNYN..QLNFIQ\|..ACRF\|TETCTSTCQ.. |
| tr\|A0A1Q6S6R3\|A0A1Q6S6R3_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KWRDYN..DLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A0A1M6E180\|A0A1M6E180_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..SLHFIQ\|..ACRF\|TDTCSVDG.. |
| tr\|A0A2N5P2N9\|A0A2N5P2N9_RUMGN | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KWRDYN..HLHFIQ\|..ACRF\|TETCTSTCS.. |
| tr\|R6YU83\|R6YU83_9FIRM | NS\|SN.F..AGME\|LIRPLYLVKE\|EDAI\|KAWRDYN..DLHFIQ\|..ACRF\|TEHCATCGG.. |
| tr\|A0A1C6GY75\|A0A1C6GY75_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KAWRDYN..DLRFIQ\|..ACRF\|TDTCTTCN.. |
| tr\|D2RKU5\|D2RKU5_ACIFV | K\|TS.C..PGME\|LIRPLYVVR\|EDDI\|KSWRDN..GLYFIQ\|..ACRF\|TETCTSTCH.. |
| tr\|A0A1I0BL00\|A0A1I0BL00_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRO\|DDI\|AWQRYN..GLHFIQ\|..ACRF\|TETCDSCSV.. |
| tr\|B0G358\|B0G358_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EADI\|GWRDYN..QLNFIQ\|..ACRF\|TENCATCGG.. |
| tr\|A0A1H9G440\|A0A1H9G440_9FIRM | HA\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KWRDYN..GLHFIQ\|..ACRF\|TESCASCGET.. |
| tr\|D4RZP6\|D4RZP6_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|HWRDFN..NLHFIQ\|..ACRF\|TDTCCSSCR.. |
| tr\|R7AKW6\|R7AKW6_9CLOT | HS\|QN.F..EGME\|LIRPMYLR\|EADV\|KAWRDYN..GLQFIQ\|..ACRF\|TENCVSCGG.. |
| tr\|R6M6V2\|R6M6V2_9CLOT | HS\|QN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..NLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A0A1D3TT13\|A0A1D3TT13_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..NLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|R5UY37\|R5UY37_9FIRM | HA\|AN.F..PGMQ\|LIRPMYLR\|EADI\|KWC SYH..NLRFIQ\|..ACRF\|TDTCTTCNP.. |
| tr\|EORVN7\|EORVN7_BUTPB | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KWRDYN..NLTFIN\|..ACRF\|TESCASCGET.. |
| tr\|A0A1I5XQ88\|A0A1I5XQ88_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KWMAYN..DLTFIN\|..ACRF\|TESCASCGET.. |
| tr\|A0A1H3X4G1\|A0A1H3X4G1_9FIRM | HS\|TN.F..EDMQ\|LIRPMYLR\|ESDI\|KWRDYN..NLHFIQ\|..ACRF\|TDTCTTCAVLPE.. |
| tr\|A0A1Q9K6P3\|A0A1Q9K6P3_9FIRM | HS\|RN.F..EGME\|LIRPMYLR\|EADI\|KAWRDYN..KLHFIQ\|..ACRF\|TENCASCGG.. |
| tr\|U2U9W4\|U2U9W4_9FIRM | RS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|LWRDEN..HLNFIQ\|..ACRF\|TESCSCSSQ.. |
| tr\|R6NFY6\|R6NFY6_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..DLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A0A1H3ZB04\|A0A1H3ZB04_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDDN..DLHFIQ\|..ACRF\|THTCSLEGK.. |
| tr\|A0A1C5LN34\|A0A1C5LN34_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..DLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A7VHD7\|A7VHD7_9CLOT | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..GLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A1H2XL03\|A0A1H2XL03_9FIRM | HS\|SN.F..EGME\|LIRPLYLVIR\|EDDI\|KWRDYN..GLHFIQ\|..ACRF\|TDTCSAVDP.. |
| tr\|R6URH0\|R6URH0_9CLOT | HS\|TN.Y..EGME\|LIRPLYLVRE\|EDDI\|KWRDYN..KLSFIQ\|..ACRF\|TDTCSVDG.. |
| tr\|R7IV15\|R7IV15_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KWRDYN..NLGFIQ\|..ACRF\|TDTCTTCNS.. |
| tr\|A6BDB1\|A6BDB1_9FIRM | HS\|QN.F..EGME\|LIRPMYLR\|EDDI\|IWRDYN..QLNFIQ\|..ACRF\|TENCVSCGG.. |
| tr\|A0A239RF45\|A0A239RF45_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|ESDI\|CAWRDYN..ELHFIQ\|..ACRF\|TETCTTCHE.. |
| tr\|A0A1I4FSK7\|A0A1I4FSK7_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|ESDI\|CAWRDYN..DLHFIQ\|..ACRF\|TDTCTTCHE.. |
| tr\|A0A2N0UJ41\|A0A2N0UJ41_9FIRM | HS\|TN.Y..EGME\|LIRPLYLVRE\|AEI\|KWRDYN..KLNFIQ\|..ACRF\|TDTCTTCSP.. |
| tr\|A5ZUM5\|A5ZUM5_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|EADI\|HWANYN..DLHFIQ\|..ACRF\|TEHCASCGET.. |
| tr\|A0A1Q9J6X5\|A0A1Q9J6X5_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KWRDYN..ELHFIQ\|..ACRF\|TETCSCSS.. |
| tr\|R6QH64\|R6QH64_9FIRM | HS\|QN.F..DGME\|LIRPLYMVK\|EDDI\|KAWRDYN..KLHFIQ\|..ACRF\|TENCATCGG.. |
| tr\|A0A255IAE4\|A0A255IAE4_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..DLYFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|R5D646\|R5D646_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A1C5SCE2\|A0A1C5SCE2_9CLOT | HS\|KN.F..EGME\|LIRPMYKIK\|EDDI\|KAWRDYH..KLHFIQ\|..ACRF\|TENCATCGG.. |
| tr\|G9WU95\|G9WU95_9FIRM | HS\|TN.F..PGME\|LIRPLYVVR\|EDDI\|KWRDYN..QLNFIQ\|..ACRF\|TETCSTCH.. |
| tr\|D4J5M7\|D4J5M7_9FIRM | HS\|SN.F..EGME\|LIRPMYLR\|EDDI\|KWRDLN..GLHFIQ\|..ACRF\|TDTCCSSCR.. |
| tr\|A0A1M7SFL4\|A0A1M7SFL4_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|ESDI\|CAWRDYN..NLHFIQ\|..ACRF\|TETCTTCHE.. |
| tr\|A0A1C5PQ80\|A0A1C5PQ80_9CLOT | HS\|TN.F..EGME\|LIRPLYLVRE\|ESDI\|KAWRDYN..NLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A1T4MVX1\|A0A1T4MVX1_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..NLHFIQ\|..ACRF\|TEECASDDF.. |
| tr\|R5JHV4\|R5JHV4_9FIRM | HA\|AN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..NLHFIQ\|..ACRF\|TDTCCSSCR.. |
| tr\|A0A0U5NQ66\|A0A0U5NQ66_9CLOT | HS\|KN.F..EGME\|LIRPLYMVK\|EDDI\|KAWRDYN..KLHFIQ\|..ACRF\|TEHCSCVCGG.. |
| tr\|R7BIC3\|R7BIC3_9FIRM | HS\|TN.F..EGMQ\|LIRPMYLR\|EKDI\|KWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNP.. |
| tr\|R5EBZ7\|R5EBZ7_9CLOT | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..KLHFIQ\|..ACRF\|TESCASCGET.. |
| tr\|A0A1G5AAM6\|A0A1G5AAM6_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|ESDI\|CAWRDYN..ELHFIQ\|..ACRF\|TETCSTCHT.. |
| tr\|A0A1C5QDL9\|A0A1C5QDL9_9CLOT | HS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KSWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A1Q9JZU8\|A0A1Q9JZU8_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KWRDYN..DLHFIQ\|..ACRF\|TDTCTTCQ.. |
| tr\|WOFHG5\|WOFHG5_9BACT | RS\|SN.F..EGME\|LIRPMYLR\|EKDI\|CAWRDN..DLVFIQ\|..ACRF\|TDTCTTCHE.. |
| tr\|A0A1T4V7R0\|A0A1T4V7R0_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|ESDI\|CAWRDYN..ELHFIQ\|..ACRF\|TDTCTTCHE.. |
| tr\|U2LSI7\|U2LSI7_9FIRM | HA\|AN.F..EGMQ\|LIRPMYLR\|EADI\|KWCYH..DLQFIQ\|..ACRF\|TDTCTTCDP.. |
| tr\|R7C751\|R7C751_9CLOT | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..DLKFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A1H5X7G0\|A0A1H5X7G0_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|EKDI\|CSWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNV.. |
| tr\|R5NVSO\|R5NVSO_9CLOT | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDAN..HLHFIQ\|..ACRF\|TDTCCSSCDK.. |
| tr\|A0A1G6A4R8\|A0A1G6A4R8_EUBOX | HS\|TN.F..EGME\|LIRPLYLVRE\|EADI\|KWRDYN..ELRFIQ\|..ACRF\|TETCTTCNV.. |
| tr\|A0A1G5YAI2\|A0A1G5YAI2_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EADI\|CAWRDYN..NLHFIQ\|..ACRF\|TDTCTTCHE.. |
| tr\|R6ED63\|R6ED63_9CLOT | HS\|SN.F..EGME\|LIRPLYLVIR\|EDDI\|KWRDYN..DLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A0A1I4A1G1\|A0A1I4A1G1_9FIRM | K\|TN.H..EGME\|LIRPLYLVRE\|EDDI\|KAWRDSN..KLYFIQ\|..ACRF\|TEACAECEG.. |
| tr\|A0A1C5WQ42\|A0A1C5WQ42_9FIRM | HS\|IH.F..EGME\|LIRPLYLVIR\|EDDI\|KWRDYN..SLHFIQ\|..ACRF\|TDTCTTCR.. |
| tr\|A0A0J1GF21\|A0A0J1GF21_9FIRM | HA\|AN.F..EGME\|LIRPLYLVKE\|AAI\|KAWRDTN..DLHFIQ\|..ACRF\|TENCASC GG.. |
| tr\|B7CBL3\|B7CBL3_9FIRM | HS\|NN.F..KGME\|VIRPLYLH\|EDDI\|KAWAKHN..DLYFIQ\|..ACRF\|TQACANETC.. |
| tr\|R5ZIH2\|R5ZIH2_9FIRM | HS\|NH.F..ERME\|VIRPLYLH\|EDDI\|KAWAKFN..DLYFIQ\|..ACRF\|TDTCCSSEAC.. |
| tr\|A0A2Y9B607\|A0A2Y9B607_RUMFL | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KWRDYN..GLHFIQ\|..ACRF\|TDTCTTCAP.. |
| tr\|B0MNV3\|B0MNV3_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..GLHFIQ\|..ACRF\|TDTCTTCN.. |
| tr\|D4JJE1\|D4JJE1_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..GLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A173SBL1\|A0A173SBL1_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EDDI\|KAWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|R5GI28\|R5GI28_9FIRM | HA\|AN.F..PGMQ\|LIRPMYLR\|EDDI\|KHWAKYN..DLHFIQ\|..ACRF\|TDTCTTCNP.. |
| tr\|R5NQZ4\|R5NQZ4_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..NLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A1C6BHH6\|A0A1C6BHH6_9FIRM | HS\|DH.F..EGMQ\|LIRPMYLR\|EEDI\|KWCYH..DLHFIQ\|..ACRF\|TDTCTTCDP.. |
| tr\|R6NBF8\|R6NBF8_9FIRM | HS\|TN.Y..EGME\|LIRPLYLVRE\|EDDI\|KWCYH..DLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A5Z569\|A5Z569_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|R6I848\|R6I848_9FIRM | HS\|TN.Y..PGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..GLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|R5VV47\|R5VV47_9CLOT | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..HLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|R7HSQ4\|R7HSQ4_9CLOT | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|MAWRDYN..GLHFIQ\|..ACRF\|TDTCTTCN.. |
| tr\|R5SK03\|R5SK03_9CLOT | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..DLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|R7N692\|R7N692_9FIRM | HS\|TN.F..EGME\|LIRPLYLVIR\|EDDI\|KAWRDYN..GLHFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|R5IGR7\|R5IGR7_9CLOT | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..HLHFIQ\|..ACRF\|TDTCTTCN.. |
| tr\|A0A1Q6MMQ0\|A0A1Q6MMQ0_9FIRM | HS\|TN.F..EGME\|LIRPLYLVRE\|EDDI\|KAWRDYN..GLNFIQ\|..ACRF\|TDTCTTCNN.. |
| tr\|A0A1Q6RMI1\|A0A1Q6RMI1_9FIRM | K\|TN.F..EGMQ\|LIRPLYLVIR\|EDDI\|KAWRDAY..DLHFIQ\|..ACRF\|TDTCTTCRP.. |
| tr\|A0A1H7N3B2\|A0A1H7N3B2_RUMFL | HS\|TN.F..EGME\|LIRPLYLVRE\|EADI\|KWRDYN..DLYFIQ\|..ACRF\|TENCSCSCE.. |
| tr\|A0A1Q6J739\|A0A1Q6J739_9FIRM | HS\|TN.F..EGME\|LIRPMYLR\|EADI\|KWRDFN..DLHFIQ\|..ACRF\|TDTCTSCNP.. |

tr|R5KSL8|R5KSL8_9FIRM
tr|W0U2V4|W0U2V4_9FIRM
tr|A0A11IAHH3|A0A11IAHH3_9FIRM
tr|A0A132NXP9|A0A132NXP9_GIATN
tr|A0A146K8R2|A0A146K8R2_9EUKA
tr|B1R6Y8|B1R6Y8_CLOPF
tr|A0A1M6D282|A0A1M6D282_9CLOT
tr|A0A173YDX8|A0A173YDX8_CLOVE
tr|A0A1G5RQX6|A0A1G5RQX6_9FIRM
tr|D8GMF1|D8GMF1_CLOLD
tr|A0A134AAP6|A0A134AAP6_9FIRM
tr|A0A210N1A5|A0A210N1A5_9CLOT
tr|A0A1S1VCE7|A0A1S1VCE7_9FIRM
tr|W8U9H6|W8U9H6_PEPAC
tr|A0A1I4WPJ0|A0A1I4WPJ0_9FIRM
tr|ASN1X3|ASN1X3_CLOK5
tr|A0A1M6J810|A0A1M6J810_9FIRM
tr|A0A2T0BP99|A0A2T0BP99_9CLOT
tr|A0A1I5A132|A0A1I5A132_9CLOT
tr|A0A0X8JSV6|A0A0X8JSV6_9FUSO
tr|A0A101WQZ2|A0A101WQZ2_9FIRM
tr|K0B3S7|K0B3S7_CLOA9
tr|A0A0P8VR55|A0A0P8VR55_9CLOT
tr|A0A069R172|A0A069R172_PEPLE
tr|A0A1M6GRY4|A0A1M6GRY4_9CLOT
tr|A0A095XSV5|A0A095XSV5_9FIRM
tr|A0A1V4SXM9|A0A1V4SXM9_9CLOT
tr|D0GJU2|D0GJU2_9FUSO
tr|A0A1U7M2L2|A0A1U7M2L2_TISCR
tr|A0A099RUP9|A0A099RUP9_9CLOT
tr|A0A0L0W9M4|A0A0L0W9M4_CLOPU
tr|A0A1F8TXJ0|A0A1F8TXJ0_9FIRM
tr|U2SSC1|U2SSC1_9FUSO
tr|A0A1G4FP35|A0A1G4FP35_9FIRM
tr|U4KQE2|U4KQE2_9MOLU
tr|V7I162|V7I162_9CLOT
tr|A0A1H3AQW8|A0A1H3AQW8_9FIRM
tr|F9VJ52|F9VJ52_ARTSS
tr|A0A084J8N3|A0A084J8N3_9CLOT
tr|A0A1T4XT21|A0A1T4XT21_9CLOT
tr|A0A1M6CD68|A0A1M6CD68_9CLOT
tr|E3PXH3|E3PXH3_ACESD
tr|A0A1D8GNY9|A0A1D8GNY9_9CLOT
tr|L1QHD2|L1QHD2_9CLOT
tr|A0A0E3JQG2|A0A0E3JQG2_CLOSL
tr|A0A2N1PGX0|A0A2N1PGX0_9BACT
tr|D9SL09|D9SL09_CLOC7
tr|A0A239JSI7|A0A239JSI7_9FIRM
tr|A0A2N2EED3|A0A2N2EED3_9FIRM
tr|A0A2N2B2N9|A0A2N2B2N9_9FIRM
tr|A0A1M6R9N3|A0A1M6R9N3_9CLOT
tr|A0A1I3QLZ5|A0A1I3QLZ5_9FIRM
tr|A0A1V1HZ83|A0A1V1HZ83_9FIRM
tr|A0A0R3JYX8|A0A0R3JYX8_9CLOT
tr|A0A1M4T9L7|A0A1M4T9L7_9FIRM
tr|A0A1C6BDC9|A0A1C6BDC9_9CLOT
tr|R7RQE1|R7RQE1_9CLOT
tr|A0A1I2P6D5|A0A1I2P6D5_9CLOT
tr|A0A1V4IHV8|A0A1V4IHV8_9CLOT
tr|A0A1M5UPJ6|A0A1M5UPJ6_9CLOT
tr|A0A1M4VWP2|A0A1M4VWP2_9CLOT
tr|M1Z6M0|M1Z6M0_9FIRM
tr|A0A0P8YVR7|A0A0P8YVR7_9CLOT
tr|A0A1I7IFT5|A0A1I7IFT5_9CLOT
tr|A0A1V4IEB9|A0A1V4IEB9_9CLOT
tr|A0A1S8TRH4|A0A1S8TRH4_9CLOT
tr|A0A0L6ZAD3|A0A0L6ZAD3_9CLOT
tr|A0A150FSS8|A0A150FSS8_CLOPD
tr|A0A2I4P454|A0A2I4P454_CLOBO
tr|A0A1T4W6M5|A0A1T4W6M5_9CLOT
tr|A0A1W1XPH3|A0A1W1XPH3_9CLOT
tr|A0A0C1U2P7|A0A0C1U2P7_9CLOT
tr|A0A1G9ECK5|A0A1G9ECK5_9CLOT
tr|A0A1I0GJZ8|A0A1I0GJZ8_9CLOT
tr|A0A1D7XIC3|A0A1D7XIC3_9CLOT
tr|A0A0F2Q1L1|A0A0F2Q1L1_9CLOT
tr|A0A162RNT1|A0A162RNT1_9CLOT
tr|S6E1Y1|S6E1Y1_9CLOT
tr|A0A0D8I8A0|A0A0D8I8A0_9CLOT
tr|A0A151AMM3|A0A151AMM3_9CLOT
tr|A0A1H0UQL6|A0A1H0UQL6_9CLOT
tr|A0A1B7LLD6|A0A1B7LLD6_9CLOT
tr|A0A140L2D9|A0A140L2D9_9CLOT
tr|A0A0A7FRU7|A0A0A7FRU7_9CLOT
tr|A0A2T0BG26|A0A2T0BG26_9CLOT
tr|U2N7Z7|U2N7Z7_9CLOT
tr|A0A2K8ZY64|A0A2K8ZY64_9BACT
tr|TON2J9|TON2J9_9CLOT
tr|A0A1M6AYT1|A0A1M6AYT1_9CLOT
tr|A0A1M5X3U6|A0A1M5X3U6_9CLOT
tr|A0A1I0YYI8|A0A1I0YYI8_9CLOT
tr|W6N6U7|W6N6U7_CLOTY
tr|A0A1D9N7E7|A0A1D9N7E7_CLOPA
tr|A0A2N1Q5S0|A0A2N1Q5S0_9BACT
tr|A0A1T4KM79|A0A1T4KM79_9FIRM
tr|A0A1G5F6L0|A0A1G5F6L0_9CLOT
tr|A0A1Q3RQW6|A0A1Q3RQW6_9FIRM
tr|A0A2N2CCK9|A0A2N2CCK9_9FIRM
tr|A0A1I1RFS0|A0A1I1RFS0_9CLOT
tr|R5XF55|R5XF55_9CLOT
tr|A0A1G3W898|A0A1G3W898_9BACT
tr|A0A2S6FY49|A0A2S6FY49_9CLOT
tr|A0A2N1QD19|A0A2N1QD19_9BACT

HS|TN.F..EGME|LIRPLYLVR|EDDI|KAWRDYN..DLHF|IQ|C|...ACKF|TDTCTTCNN.
NSTN.F..EGMQ|LIRPLYMVR|EDDI|KAWRDYN..GLRF|IQ|C|...ACKF|TDTCTTCAP.
NSTN.F..EGME|LIRPLYYIR|EDDI|IDFRDYN..GLNF|IQ|C|...ACHT|TETCTCHT.
HNA..E..KNIT|LIRPMVFC|EEDT|IAYARHS..TF|PIVTC|...N.CPHEG.N..
EAK..E..GKIT|LIRPLILTF|EQO|IKDFASIT..KF|PIVTC|...N.CPFEED.D..
KAAN.F..DGIE|LIRPLYLIE|EYI|KRWIQRA..GIWPLNC|...A.CMVAAK..
KASN.F..EGIE|LIRPLYYIE|EKDI|IRLFTQNA..GIWPLNC|...A.CMVAAK..
KSNF.F..KDME|LIRPLYYVE|ERYI|KRWIQNS..GIWPLNC|...A.CMVAAK..
KSTN.F..PGME|LIRPMYYIR|EKDI|LRFTQFS..GIWPLNC|...A.CMVAAK..
RSQN.Y..EGIE|LIRPLYYVE|ESYI|ERFIQSS..GIWPLNC|...A.CMVAAK..
KAKN.F..ENME|LIRPLYLIE|EYI|IRWMKST..GLMPLNC|...A.CMVAAK..
RSDH.F..PEIE|LIRPLYYVA|EAD|KKWTQSM..GLWPLNC|...A.CMVAAK..
KASN.F..ENME|LIRPMYYIE|ETDI|QKFIQSS..GIWPLNC|...A.CMVAAK..
KSTN.F..DEME|LIRPLYYVR|EKDI|ERFIQSS..GIWPLNC|...A.CMVAAK..
KSTN.F..EGIE|LIRPLYYIR|EEDI|IRWMTYT..GIWPLNC|...A.CMVAAK..
KKN.F..KNIE|LIRPLYFVE|ESNV|KAFMKNA..GISPLNC|...G.CTVVAAAG.
KQN.Y..EGLE|LIRPMYHIRE|QYI|ERFIQNS..GIWPLNC|...A.CMVAAK..
KKN.F..EGLE|LIRPLYYVE|ESYI|QKFIQSS..GIWPLNC|...A.CMVAAK..
KAQN.F..ENME|LIRPMYLI|EDNI|KKNWQSA..GIWPLNC|...A.CMVAAK..
KSDN.Y..D.IE|LIRPLFYVE|EKSI|IKWVKNN..GILPMNC|...G.CTVVAAAS.
KSTN.F..KGLE|LIRPLYYVD|EQYI|ERFTQSS..GIWPLNC|...A.CMVAAE..
KADN.F..ENME|LIRPMYYIH|EKDI|IRFTQTS..GIWPLNC|...A.CMVAAK..
KSTN.F..RGVE|LIRPMYYIR|EKHI|ENFTQNS..GIWPLNC|...A.CMVAAK..
KSTN.F..DGME|LIRPMYYIR|EKHI|ERFTQNS..GIWPLNC|...A.CMVAAK..
KSTN.F..ENIE|LIRPMYFIR|EEHIER|FIQIS..GILPIDC|...A.CMVAAK..
KSTN.F..EGLE|LIRPLYYIR|EEDI|IRWVKYT..GLAPINC|...A.CTVVAAAN.
KANN.F..ENME|LIRPMYFIE|EDYI|RRFINYS..GIWPLNC|...A.CMVAAE..
KADN.F..D.IE|LIRPLFYVE|EKSI|IKWIRNN..GILAMNC|...G.CTVVAAAG.
KAEN.F..ENME|LIRPLYLIE|EDYI|KRFIQNS..GIMPLNC|...A.CMVAAK..
KAKN.F..EGLE|LIRPMFYIH|EDDI|RRYTLNA..GISPMNC|...G.CMVVAAAS.
RASN.F..EGME|LIRPMYHIE|EYI|QRFIQSS..GIWPLNC|...A.CMVAAK..
KSTN.F..AGLE|LIRPMYYIE|EKDI|ISFTQNS..GIQALNC|...A.CMVAAK..
KSDN.F..D.IE|LIRPLFYVE|EKSI|IKWVKNN..GILPMNC|...G.CTVVAAAG.
KSRN.Y..EGME|LIRPMYYIE|EKYI|KRFIQNS..GIWPLNC|...A.CMVAAK..
KADN.F..EEIE|LIRPLFYIK|EKDI|IRFTKSS..GIQSMNC|...G.CTVVVAS.
KAQN.F..EGME|LIRPLYFVE|EDNI|KRWIQYA..GIWPLNC|...A.CMVAAK..
KQN.Y..EGIE|LIRPLYLIE|EYI|KRFIQYS..GIWPLNC|...A.CMVAAK..
EADN.F..KDIE|LIRPMYYIE|EQSI|ITFIKNS..GLMALNC|...A.CMVSAK..
KATN.F..KGLE|LIRPLYYVE|ESYI|ENFIQSS..GIWPLNC|...A.CMVAAK..
KKN.F..EGIE|LIRPLYLIK|EHYI|ECYTKES..GIMPLNC|...A.CMVAAQ..
HSTN.F..KDLE|LIRPMYYIE|EKHI|ERFTQNS..GIMPLNC|...A.CMVAAE..
KSTN.F..EGLE|LIRPLYYVE|EVFI|ERFTQTN..GIWPLNC|...A.CMVAAK..
HSSN.H..KGLE|LIRPMYYIE|ERHIE|EQFTQES..GIWPLNC|...A.CMVAAK..
QADN.F..EGIE|LIRPLYYIE|EAI|KRFIKYT..GLWPLNC|...A.CMVAAE..
KSTN.F..EGIE|LIRPLYYIE|ENI|QRFIQKS..GIWPLNC|...A.CMVVSAAG.
TADN.F..DDIE|LIRPMFYIK|EHDI|IRFTQSS..GIQSMNC|...G.CTVVVAS.
KADN.F..ENME|LIRPLYYIE|EKSI|KKNFIQHS..GIWPLNC|...A.CMISAK..
KSTN.F..KGLE|LIRPLYHVE|ESAI|IDTFDES..GIWPLNC|...A.CMVAAK..
KSLN.F..EGLE|LIRPLYYVE|EEH|KNTVNA..GLSPLNC|...G.CVVVAAK..
KSN.F..EGLE|LIRPMYYIE|EEH|KNTVNA..GLSPMNC|...G.CIVVAAK..
KSN.F..PGIE|LIRPMYYIE|EKHI|INTFKAS..GIAPLNC|...A.CMVAAH..
NSTN.F..DGIQ|IIRPLYYIR|EESI|IKFIQNS..GIWPLNC|...A.CMVAAK..
NSTN.F..DGIQ|IIRPLYYIR|EEH|VRFIQNS..GIWPLNC|...A.CMVAAK..
KAQN.F..EGME|LIRPMYYIE|EHIE|EQFTNYT..GIWPLNC|...A.CMVAAK..
KAQN.F..EGLE|LIRPLYLIE|ELYI|QRFIQNA..GIWPLNC|...A.CMVAAK..
KADN.F..PDME|LIRPLYYVE|EYI|KRFIRYT..GLWPLNC|...A.CMVAAK..
KAEN.F..EGIE|LIRPMYYIE|ERHIE|EQFTKAN..GIWPLNC|...A.CMVAAE..
RATN.F..EDIE|LIRPMYLI|EQYI|KNTQSS..GIWPLNC|...A.CMVAAK..
KSTN.F..ENME|LIRPLYYIE|EDHI|QRFQKS..GIWPLNC|...A.CMVAAK..
KSKN.F..EGLE|LIRPMFYIH|EDDV|KRYTINS..GI|GF|MNC|...G.CIVVAAAG.
KADN.F..EGIE|LIRPMYYIE|EMYI|KRFITQNA..GIWPLNC|...A.CMVAAK..
KQN.Y..EGIE|LIRPLYYIE|EYI|KRFIQYS..GIWPLNC|...A.CMVAAK..
KSTN.F..KDME|LIRPMYFIE|EHFI|ECYTNNEN..GIYPLNC|...A.CMVVAAAD.
KAQN.F..ENIE|LIRPLYLIE|ENI|KRWINYS..GIWPLNC|...A.CMITAAE..
KKN.F..ENLE|LIRPMYYIE|EDYI|KKFINYS..GIWPLNC|...A.CMVAAE..
KKN.F..ENIE|LIRPLYYIE|EDSI|RRFINNS..GIWPLNC|...A.CMVAAE..
KSTN.F..EGLE|LIRPLYYIN|EDDI|KRFINNA..GIAPMNC|...G.CIVVAAAG.
KSN.F..EGLE|LIRPLYYVR|EKDI|ERFTQNS..GIWPLNC|...A.CMVAAK..
RSTN.F..EGLE|LIRPLYYIE|EYI|QKFIQNS..GIWPLNC|...A.CMVVAAAG.
KSDN.F..ENME|LIRPLYYIE|EVYI|ERFTQNN..GIWPLNC|...A.CMVAAK..
KAKN.F..EGLE|LIRPLYYIE|EEDI|KRFVRNN..GLSTMNC|...G.CTVVAAAN.
KAAN.F..EGLE|LIRPLYYVE|ECYI|QKFTQSS..GIWPLNC|...A.CMVAAK..
KASN.Y..KGLQ|LIRPLYHIE|EAAI|IDFTENN..GIWPLNC|...A.CMVAAK..
KSTN.F..EGLQ|LIRPLYHIE|EAAI|INTDDN..GIWPLNC|...A.CMVAAK..
KSN.F..ENLE|LIRPMYYIE|EDYI|KRFIKNA..GIAPLNC|...A.CMVAAK..
KAKN.F..KGIE|LIRPMYYIE|ESSI|EKFTRES..GISPMNC|...A.CMITAAE..
KSTN.F..EGLE|LIRPLYYIE|EQSI|QRFITQNS..GIWPLNC|...A.CMVAAE..
KSN.Y..ENME|LIRPLYYVE|EDYI|KRFITNNA..GIWPLNC|...A.CMVAAE..
KSLN.F..EGLE|LIRPLYHVE|EAAI|IDFI|DHS..GIWPLNC|...A.CMVAAK..
HATN.F..EGLE|LIRPMYYIH|EDDI|KRYTMNA..GISPMNC|...G.CVVVAAAG.
KSN.F..ENME|LIRPMYYIE|EDNI|KKFINYC..GIWPLNC|...A.CMVVAAAG.
RSDN.F..DNIE|LIRPMYFIE|EQSI|ITFIKNS..GILALNC|...A.CMVVAAK..
RSSN.F..KGLE|LIRPLYYIE|ERYI|EYFTQES..GIWPLNC|...A.CMVVAAE..
KSN.F..EGLE|LIRPMYLI|EYI|KRFINYS..GIWPLNC|...A.CMVVAAK..
KAKN.F..ENIE|LIRPLYYIE|EDDI|KKFINYS..GIWPLNC|...A.CMITAAK..
KAKN.F..EGIE|LIRPMYYIE|EQSI|QSFQSS..GIWPLNC|...A.CMVVAAK..
KADN.F..EDIE|LIRPMMLVK|EKDI|IRWIKKS..GIQSMNC|...G.CTVVVAE..
KAAN.F..EGLE|LIRPLYYVE|EYI|QRFITQNA..GIWPLNC|...A.CMVVAAK..
KAAN.F..EGME|LIRPMYFIE|EDYI|QRFITQNS..GIWPLNC|...A.CMVVAAK..
KSTN.F..TGLE|LIRPLYYIE|ENDI|KRFITESS..GIWPLNC|...A.CMVVAAE..
KATN.F..EGIE|LIRPLYYIE|EKNI|QRFIQSS..GIWPLNC|...A.CMVVAAK..
KSN.F..KGLE|LIRPLYFVH|EENI|QTFIQNS..GIWPLNC|...A.CMVVAAE..
KATN.F..KDME|LIRPLYYIE|EDDI|KKFVRNN..GLATMNC|...G.CIVVAAAG.
TAEN.F..DDIE|LIRPMMFVK|EKDI|IRWIKHS..GIQAMNC|...G.CTVVVAE..
KSN.F..SDME|LIRPLYYIE|EKNI|QRFIQNS..GIWPLNC|...A.CMVVAAK..
KSTN.Y..DGIE|LIRPLYHIE|ENVI|ADFTQWN..GIWPLNC|...A.CMVVAAK..
KSDN.F..EGLE|LIRPMYYIH|EEDI|IHFTKSS..GLAPMNC|...G.CMVVAAK..
KSLN.F..EGLE|LIRPMYYIH|EEDI|KRFITNNS..GLVPMNC|...G.CVVVAAK..
KSTN.F..ENLE|LIRPLYYVE|EDYI|KRFITNNS..GIAPLNC|...A.CMVVAAE..
KSN.Y..EKMQ|IIRPLYYIR|EESI|IRFIQNS..GIWPLNC|...A.CMVVAAK..
EAEN.F..ENIE|LIRPMINVK|EKDI|VRWINHS..GIQAMNC|...G.CTVVVAE..
KAAN.F..EGIE|LIRPLYYVE|EKYI|QNFQNS..GIWPLNC|...A.CMVVAAK..
QAN.F..EGIE|LIRPMMFVK|EKDI|IRWLKHS..GIQSMNC|...G.CTVVVAE..

tr|A0A174A4G3|A0A174A4G3_9CLOT KSN.F..EGIE LIRPLYLIE EAI KRFINYS..GIWPLNC..A.CMVAAK..

tr|A6TTE5|A6TTE5_ALKMQ KSN.F..EGME LIRPLYLIE EAI IDFTESS..GIWPLNC..A.CMVAAK..

tr|U4KLZ0|U4KLZ0_ACHP3 KAEN.F..DDIE LIRPLFYVE EKDI IRWVKYS..GIQAMNC..G.CTVAAAL..

tr|A0A0J8DD49|A0A0J8DD49_CLOCY HANN.F..EGIQ LIRPMYYIE ETHI QRTQSS..GIFPLNC..A.CMVAAK..

tr|I7LJ37|I7LJ37_9CLOT KAEN.F..EGME LIRPMYYIE ERYI EQFTKYA..GIWPLNC..A.CMVAAK..

tr|A0A2N1Q0A1|A0A2N1Q0A1_9BACT EAEN.F..EGIE LIRPLFLVK EKDI IRWIKKS..GIQAMNC..G.CTVAAE..

tr|A0A2X2L491|A0A2X2L491_9FUSO KSDN.F..D.IE LIRPLFYIE EKNI IKFVKNN..GIQAMNC..G.CTVAAE..

tr|A0A1M4M946|A0A1M4M946_9FIRM KAAN.F..EGIE LIRPLYLIE EVNI RRRFIEYS..GIWPLNC..A.CMVAAE..

tr|A0A1H3RJV2|A0A1H3RJV2_9FIRM KSN.F..EGIE LIRPLYLIE ETSI RRRFIEYS..GIWPLNC..A.CMVAAE..

tr|J4UUAU8|J4UUAU8_9FIRM KSKN.F..DSIE LIRPLFLIE ESKI IKYTQNA..GLHMLNC..A.CMTAAK..

tr|A8MG47|A8MG47_ALKOO KATN.F..ENME LIRPLYLVE EESI IDYTESN..GIWPLNC..A.CMVAAK..

tr|J6H3Q8|J6H3Q8_9FIRM KSKN.F..DSIE LIRPLYLIE ESKI IRFTQNA..GINVLNC..A.CMVAAK..

tr|A0A1H5WXD0|A0A1H5WXD0_9CLOT KAKN.F..EGME LIRPMYYIR ERHIEQFIQYA..GIWPLNC..A.CMVAAE..

tr|A0A1F8UHH3|A0A1F8UHH3_9FIRM KSTN.F..EGLE LIRPLYLVR EDDI KRYYTINS..GITAMNC..G.CIVAAE..

tr|D1AIH2|D1AIH2_SEBTE KADN.F..D.IE LIRPLYLVE EKDI IKFTANN..GILAMNC..G.CTVAAE..

tr|A0A1COADV0|A0A1COADV0_9FIRM RSAH.F..ENIE LIRPMYYIR EDSV IKYTKNA..GLNMLNC..A.CMVAAK..

tr|A0A1K1NPP9|A0A1K1NPP9_9BACT KMRK...MPLT IIRPLCLCQ EDDI RQYAEH..HYEKOT..Q..LCPYEH..

tr|A0A1H8CKM7|A0A1H8CKM7_9BACT KMRK...MPLT IIRPLCLIP ESDI KTKWAE..GYKQKQ..K..LCPYET..

tr|X8GV28|X8GV28_9FIRM HSTN.F..QGME LIRPLYLVR EADI IHWARYN..DLRFILC..ACRLTDCSVVGA..

tr|A0A173V180|A0A173V180_9FIRM HSN.F..EGME LIRPLYLVR EEDI KAWRDYN..RLQFIQC..ACRFETENCSGCG..

tr|R5VBQ7|R5VBQ7_9FIRM HSTN.F..EGME LIRPLYLVR EADI IHWAQYN..DLHFIOC..ACRFETEGASCGET..

tr|A0A1Y4HTK3|A0A1Y4HTK3_9FIRM HSTN.F..PGME LIRPLYLVR EADI IAWARYN..DLEFLRC..ACRLTGETAN..

tr|A0A0J0TV39|A0A0J0TV39_PAESO YLD..R..QDLT VIRPMVYID EYMTKKATKDF..NYPVIRK..NPPCADDGY..

tr|R9T2S6|R9T2S6_9FIRM HSTN.F..EGME LIRPMYYIR EHHI EAWRDYN..NLHFLQC..ACKFTENSAFHG..

tr|A0A2U0UGL2|A0A2U0UGL2_9BACE HSTN.F..EGME LIRPMYLIR EADI IHWKEYN..NLEFIOC..ACRFETEGASCGET..

tr|A0A2P4V576|A0A2P4V576_CAERE TTK..D..GTLR VIRPLVMVR EKAL RNFAEDK..KL PVVAE..N.CPACFN..

tr|A0A158QJP7|A0A158QJP7_HAEPCLSR..D..GTLR VIRPLIFVR ERAL REFAESK..GL PVVAE..N.CPACFN..

tr|A0A0N5AD38|A0A0N5AD38_9BILA KIR..K..ADIR IIRPLIYVR EKNL KEFAEKN..LL PVIAE..N.CPACFE..

tr|A0A1I7ZGR2|A0A1I7ZGR2_9BILA TTK..D..KKLR VIRPLVYVR EKEL RDAEON..NL PVPIE..N.CPACFS..

tr|H3FCD7|H3FCD7_PRIPA TTR..D..TSLR VIRPLVLVR EKSL REFASSS..KL PVVAE..N.CPACFN..

tr|A0A0R3SHK2|A0A0R3SHK2_HYMDI IIL..S..KNLR VIRPLVYVR EKMTRAFAEMA..GL PVPIE..N.CPACFQ..

tr|A0A1E1XBM3|A0A1E1XBM3_9ACAR TVR..E..GDLR VTRPLVYVR EKNL RKFAEEK..RL PVIAE..N.CPACFE..

tr|R6Z006|R6Z006_9FIRM FLQ..R..SQIE FIRPLIYAR EKDI ISFVKEY..NI PIIRK..STCTNDKT..

tr|A0A1V5UJ98|A0A1V5UJ98_9BACT YLE..R..AQIT FIRPLILAS EKLI TRVQKDL..NL PLLP..ANCPNEKK..

tr|A0A1V6IJW5|A0A1V6IJW5_9BACT YLE..R..AEIT FIRPLILVD EKLI IRVQKDL..KL PLLP..YNCNPENK..

tr|A0A1V6FCC4|A0A1V6FCC4_9BACT YLE..R..AEIT FIRPLILSD EKLI TRVQKDL..KL PLLV..NNCPNEKK..

tr|A0A1V5HTP1|A0A1V5HTP1_9BACT YLE..K..SKIE FIRPLVLAKESDLANMAKEE..EL PVLIA..STCPANGF..

tr|R7DSC3|R7DSC3_9FIRM HLE..K..TDLV FIRPLILAR ESVIRCAEEM..HF PITS..LGCPNDKH..

tr|A0A1Y2CT79|A0A1Y2CT79_9FUNG DSEN.Y..EGIT LIRPMVYIR EEDI RSIIMKN..DITCMTG..GCACVASS..

tr|W8JGB0|W8JGB0_9CHLA DMVH...FNVT IIRPLIFIP EFWIRKFAKES..GFARVT..C.RCPVV..

tr|G4NP34|G4NP34_CHLTA DMVN...FGIT IIRPLIFIP EDLIRKFAKES..GFARIT..C.RCPVI..

tr|A0A2A4YC14|A0A2A4YC14_9BACT KMHL...YETT IIRPLIYIA EODI EFAKTY..NFARIT..C.QCPVGO..

tr|A0A0C1H3W6|A0A0C1H3W6_9BACT HMQE...YGVY IIRPLIYIA EKNIRTFAQOQ..GFARIM..C.RCPVGO..

tr|A0A0C1CA75|A0A0C1CA75_9BACT HMRE...YGVY IIRPLIYIA EKEIS TFAEQH..GFKRIT..C.RCPVGO..

tr|Q5L5X2|Q5L5X2_CHLAB DMVH...FGIT IIRPLIFTP ESYIRKFAKES..GFARVT..C.RCPVV..

tr|A0A1F8JP57|A0A1F8JP57_9BACT HMRD...YGVY IIRPLIYVS EESLRTFAKQY..GFMRMA..C.QCPVGO..

tr|A0A090D241|A0A090D241_9BACT PMKR...YQVT IIRPLILVP EEMI EFAKQO..NFHRIM..C.QCPVGO..

tr|A0A2A4X7F6|A0A2A4X7F6_9BACT RMVD...YGIT IVRPLLYVD ESSI VTWSKQK..GFARVT..C.MCPVGO..

tr|A0A212KNQ6|A0A212KNQ6_9CHLA QMOK...YGVY IIRPLIYID EDDI KSFAAQY..GFARIS..C.QCPVGO..

tr|A0A2H0VXW5|A0A2H0VXW5_9BACT HMRD...YGVY IIRPLIYID EESIRTFAKQN..DFARIS..C.GCPVGO..

tr|A0A1F8J4G6|A0A1F8J4G6_9BACT YMH...YDVT IIRPLIYID EKSL SQFAQQY..GFQRIT..C.QCPVGO..

| tr|A0A0C1HRT1|A0A0C1HRT1_9BACT | YMQK...YGIT | IIRPLIYIQ EEDI RAFAEQY..GFIRIM..C.RCPVGO.. |
| tr|A0A2E3LYW0|A0A2E3LYW0_9BACT | HMQN...YEMT | ITRPLIYCS ESDIRFSKAN..GFARIL..C.RCPVGO.. |
| tr|A0A078LBF5|A0A078LBF5_9CHLA | FMEV...YGIT | IIRPLIYIK EADI KTFAEQN..EFIRIM..C.RCPVGO.. |
| tr|A0A1F8JX30|A0A1F8JX30_9BACT | FMEN...YQVK | IIRPMIYVD EKEITAFSEKN..NFLKIM..C.KCPIGT.. |
| tr|A0A2H0VPP5|A0A2H0VPP5_9BACT | GMKD...YGVY | IIRPLIFV EEDIVSFAKMH..HFLRIS..C.QCPVGO.. |
| tr|T5K7U9|T5K7U9_9CHLA | EMVY...FNNT | IIRPLIFTP EFLIRKFAKES..GFARVT..C.RCPVV.. |
| tr|A0A2H9SVY0|A0A2H9SVY0_9BACT | CMRE...YGVY | IIRPLIFVP EKDI ITFAEHY..GFKRIM..C.RCPVGO.. |
| tr|V8TPD5|V8TPD5_9CHLA | DMVH...FGIT | IIRPLIFTP ESLIKKFAKEH..GFARVT..C.RCPVV.. |
| tr|Q254M9|Q254M9_CHLFF | GMVH...FDIT | IIRPLILTP ESWIRKFSKES..GFARVT..C.RCPVV.. |
| tr|A0A173E038|A0A173E038_9CHLA | DMVH...FNIT | IIRPLIFIP ESWIQKFAKES..GFARVT..C.RCPVI.. |
| tr|A0A1A9HVJ8|A0A1A9HVJ8_9CHLA | DMIH...FQVT | LLRPLIFTP EFWIRKFAKEH..GFARVT..C.RCPVI.. |
| tr|F8L6X1|F8L6X1_SIMNZ | PMHD...YGVY | IIRPFIYVP EKEIVHFAIKH..GFARIT..C.QCPVGO.. |
| tr|A0A0U5JAB3|A0A0U5JAB3_9BACT | RMQE...YGVY | IIRPFIYIA EODIRTFAQOQ..GFARIM..C.RCPVGO.. |
| tr|A0A1F8JQJ4|A0A1F8JQJ4_9BACT | PMKR...FGVT | IIRPLLFVE ERQLVEFAKRY..GFARVT..C.QCPVSS.. |
| tr|Q928S7|Q928S7_CHLNP | DMVH...FGVT | IIRPLIFTP EFWIRKFAKEN..GFARVT..C.RCPVV.. |
| tr|A0A2R8FAY6|A0A2R8FAY6_9CHLA | DMIH...FGVT | IIRPLIFTP ELWIRKFAKEN..GFSRVT..C.RCPVI.. |
| tr|D6XVT5|D6XVT5_WADCW | HMID...YGKT | IIRPLTYVS EEEIRRFAEQO..GFSRVM..C.RCPVGO.. |
| tr|A0A1M3CQO7|A0A1M3CQO7_9CHLA | HMQE...YGVY | IIRPLIYIA EKDI RQFAEQO..GFMRIM..C.RCPVGO.. |
| tr|A0A1B6M060|A0A1B6M060_9HEMI | YIK..E..GDLR | VIRPFSYVR ERSIRQFAESR..HL PIITPE..N.CPACFE.. |
| tr|C5LLP8|C5LLP8_PERMS | FVQ...Q..RDIR | VIRPLVYCR EKQLAEFATEN..SL PVISD..N.CPACFA.. |
| tr|A0A0G4ESA4|A0A0G4ESA4_VITBC | TQ...SDGAPLR | VCRPLVYAR ESATAEFAAAN..KL PVITD..N.CPACFA.. |
| tr|R5LGC8|R5LGC8_9FIRM | KSDN..I..GDMK | LIRPMYLIR EDDINLWKNRN..NLNFKVC..ACRLNTK.. |
| tr|B8BUL4|B8BUL4_THAPS | KIN..A..GDVS | VIRPLVYCR ESLMTDFAKSN..NL PVINE..N.CPACFE.. |
| tr|A0A2M9DVP8|A0A2M9DVP8_9DELT | GVD..D..NPME | VIRPLVYLS EATVAKIHGHM..GL PLLDY..RCPHEQK.. |
| tr|A0A1V6GDW6|A0A1V6GDW6_9DELT | EVV..E..GMVY | IIRPMVYLD SPLVRLHNHL..RL PVLVS..TCPYGEK.. |
| tr|A0A1F3PT60|A0A1F3PT60_9BACT | GVP..G..SKLK | IIRPMIYLE ESLITKLHKS..NL PLLDQ..SCDYGEC.. |
| tr|E4XYA5|E4XYA5_OIKDI | TVK..A..GDLR | VIRPLAFVRE TETRAFAESN..KL PVPIE..N.CPACFS.. |
| tr|A0A024FYH7|A0A024FYH7_9STRA | WNH..A..RDIQ | IIRPLIYVRE FOLQFASDA..RL PVINE..N.CPACFE.. |
| tr|A0A2C6LF24|A0A2C6LF24_9APIC | VIR..K..GDLR | VCRPLIIRTR EKETSAFVAN..RL PLIAD..N.CPACFA.. |
| tr|A1RTA9|A1RTA9_PYRIL | YED.AEEKDLIP | IKPLKYIR EEEIAIYAYYH..GI PLMEL..ECPYVVT.. |
| tr|B1Y9F0|B1Y9F0_PYRNV | HED.AEEKDLIP | IKPLKYVR EEEVAIYAYYH..GI PLMEL..ECPYVVA.. |
| tr|G7VHA5|G7VHA5_9CREN | YED.AEEKDLIP | IKPLKYVR EEEVALYAYYH..GV PLMEL..ECPYVVA.. |
| tr|A3MWP7|A3MWP7_PYRCJ | YED.AEEKDLVP | IKPLKYIR EEEIALYAYYH..GI PLMEL..ECPYVVA.. |
| tr|Q8ZVG4|Q8ZVG4_PYRAE | YED.AEEKDLIP | IKPLKYIR EEEIALYAYYH..GL PLMEL..ECPYVTT.. |
| tr|A0A075MU89|A0A075MU89_9ARCH | EPI.EYAG.GMK | IKPFVVELY EHEIVFYALQR..EIPFOSE..ECPYMNE.. |
| tr|A0A2H9LM96|A0A2H9LM96_9ARCH | VTD.EVHPKFVQ | IKPFCEIP EKETALYAYVK..KIRFQSR..PCPYASE.. |
| tr|K0IMC3|K0IMC3_NITGG | EPV.QYANNRMK | VKVPFIEIY EYEIFYALQR..EIPFOSE..ECPYMNE.. |
| tr|A0A0MOC0X2|A0A0MOC0X2_9ARCH | VQ.QVSNSCFVQ | VKVPFCEIL EKESTLYAYVK..KIRFQNH..PCPYSSS.. |
| tr|A0A1Q7FAT4|A0A1Q7FAT4_9ARCH | EPV.KYAS.GMK | VKVPFIEIY EYEIFYALQR..EIPFOSE..ECPYMNE.. |
| tr|A0A0V8RTY0|A0A0V8RTY0_PYROC | VSGPASHPKFVR | VKVPFYEVL EKETALYAVIN..GLYTGFI..E.ECPYARL.. |
| tr|G0ECQ9|G0ECQ9_PYRF1 | VSGPGHPKFVR | VKVPFYEVL EKETIYAVLN..GLYTGFI..E.ECPYARL.. |
| tr|D5U0T7|D5U0T7_THEAM | VADKGGHGEFVR | IKPFYEVL EKEISAIYALVN..GLVEPGY..H.QCPYAEY.. |
| tr|D7D813|D7D813_STAHD | VGPLDHPKFVR | VKVPFYEIL EKETTLYSILN..NLYPKFI..V.ECPYARF.. |
| tr|A2BKE0|A2BKE0_HYPBU | ISGPGTHPRFVR | VKVPFYEVL EKETIYAVIN..GLYTGFI..E.ECPYARL.. |
| tr|A0A1Q9N5U5|A0A1Q9N5U5_9ARCH | RLE.KIHPGFVR | VKPLIEIP EREILYAYFS..NIPLHS..Q.TCPYAAD.. |
| tr|A0A1J4UHT4|A0A1J4UHT4_9ARCH | NDE.G.DSPFVR | IRPLTFVRE ERECALFALMN..GL PFHL..G.ECPYSTS.. |
| tr|A0A256YZ85|A0A256YZ85_9CREN | TGSAKHPKFVR | VKVPFYEVL EKETTLYAILN..NIYPKHF..V.ECPYATQ.. |
| tr|A0A1Q9P748|A0A1Q9P748_9ARCH | KPR.KIHSHLVP | RAKPFRTMP QAEIVMICYLN..DLEYOE..I.PCPYAVE.. |
| tr|A0A2U0RXT0|A0A2U0RXT0_9ARCH | VLN.VIHPMLVQ | VKVPFLVEP EKEVVMYALK..GIEFOCI..I.DCPYATQ.. |
| tr|I3TF38|I3TF38_THEC1 | VTT.GIASHEKFVR | IKPFI ETV EKETSIYALN..GLIEPEY..H.KCPYAEF.. |
| tr|A0A0P9E5Q3|A0A0P9E5Q3_9ARCH | VTT.DIHPKLIR | VKPLCEVP EKEIALYALK..RIEFOGI..I.PCPYART.. |
| tr|A0A2D6LPK9|A0A2D6LPK9_9ARCH | ISGNKKFDFVVR | IKPLIYETP EKEI IAYCALN..GIEHYSD..E.CCPYSWM.. |

| | |
|----------------------------------|---|
| tr\|A0A256YLA3\|A0A256YLA3_9CREN | I TGVIEHPKFIKRVKPFYFVLEKETITLYALLN.NLLEPV.FY.ECPYVEY. |
| tr\|A0A2626R8H3\|A0A2626R8H3_9ARCH | ISGVGKEHDYFVQVRVKPLYMCSDEKERVRLTLK.GFTVQFT..ECPYSVE. |
| tr\|V9IMM0\|V9IMM0_APICE | YLR..R..QDLRVVRPFVYVREKALRQFVETK.KLLVTR..G.I.GSSD. |

Figure S2. Multisequence alignment produced by RoseTTAFold of two regions with the conserved cysteines of CyuA proteins. The first sequence and numbering correspond to MjCyuA.