

	1	10	20	30	40	50	60
1_4160	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
2_6143	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
3_6554	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
4_111	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
5_5742	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
6_9490	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
7_6313	MISDV	QRIVGGIVYVHEMWAGVLETALATYLLQ	RVMGVSSVAM	GLALAYSTITLSPLLV			
8_2552	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
9_7745	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
10_2315	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
11_2035	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
12_9640	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
13_3674	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
14_6548	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
15_10828	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
16_6578	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
17_10233	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
18_9261	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
19_8450	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
20_1727	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
21_206	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
22_7439	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
23_3780	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
24_967	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
25_6595	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
26_8391	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
27_8170	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
28_5209	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
29_2181	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
30_8564	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
31_1582	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
32_4537	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
33_9418	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
34_1782	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
35_10360	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
36_468	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
37_4956	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
38_4305	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
39_4737	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
40_9543	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
41_6669	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
42_10558	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
43_8051	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
44_10454	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
45_10126	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
46_1547	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
47_6749	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
48_9982	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
49_7293	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
50_5993	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
51_4791	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
52_121	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
53_1667	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
54_10488	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
55_7733	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
56_3982	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
57_392	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
58_10291	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
59_5792	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
60_8712	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
61_6716	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
62_5599	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
63_304	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
64_10473	MNRFN	QDLMFVDT	RLPIDLFNTSIDFFITIIQLILVVLVSKEA	AILP	VVFGALYLIQKV		
65_6310	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
66_8714	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
67_2350	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
68_2447	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
69_5658	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
70_1277	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
71_3717	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
72_7846	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
73_10528	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
74_4899	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
75_5507	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
76_5432	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
77_10770	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
78_5904	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
79_9653	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
80_4462	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
81_7194	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
82_1022	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
83_9813	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
84_1902	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
85_5152	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
86_3385	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
87_10760	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
88_1588	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
89_1609	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		
90_4023	MECPAD	ADRVFGPAI	QGCRSDFDFTLLFQDSVLGILPSSSVLI	I	LAARLVFLARRHAVAS		

	70	80	90	100	110	120
1_4160	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
2_6143	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
3_6554	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
4_111	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
5_5742	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
6_9490	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
7_6313	FAAYIG	VNGDD	ENLDS	ATMFSS	LVLSL	IGSPLV
8_2552	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
9_7745	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
10_2315	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
11_2035	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
12_9640	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
13_3674	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
14_6548	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
15_10828	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
16_6578	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
17_10233	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
18_9261	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
19_8450	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
20_1727	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
21_206	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
22_7439	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
23_3780	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
24_967	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
25_6595	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
26_8391	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
27_8170	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
28_5209	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
29_2181	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
30_8564	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
31_1582	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
32_4537	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
33_9418	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
34_1782	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
35_10360	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
36_468	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
37_4956	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
38_4305	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
39_4737	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
40_9543	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
41_6669	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
42_10558	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
43_8051	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
44_10454	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
45_10126	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
46_1547	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
47_6749	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
48_9982	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
49_7293	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
50_5993	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
51_4791	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
52_121	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
53_1667	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
54_10488	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
55_7733	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
56_3982	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
57_392	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
58_10291	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
59_5792	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
60_8712	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
61_6716	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
62_5599	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
63_304	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
64_10473	YLRSSK	QLRLLD	LDWKAD	LHTAFG	ETTAGL	SVIRANG
65_6310	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
66_8714	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
67_2350	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
68_2447	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
69_5658	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
70_1277	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
71_3717	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
72_7846	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
73_10528	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
74_4899	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
75_5507	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
76_5432	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
77_10770	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
78_5904	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
79_9653	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
80_4462	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
81_7194	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
82_1022	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
83_9813	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
84_1902	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
85_5152	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
86_3385	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
87_10760	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
88_1588	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
89_1609	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW
90_4023	LNWLYH	SKIGFNI	LSFALQ	LTLVQRC	RIQDLE	TSAAIPW

	130	140	150	160	170	180
1_4160	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
2_6143	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
3_6554	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
4_111	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
5_5742	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
6_9490	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
7_6313	EKPLVIKHKPEIIT	TTCDE	ETKNAHLQLSEI	ETAL	SIRNAS	IGWSPDEQPL
8_2552	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
9_7745	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
10_2315	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
11_2035	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
12_9640	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
13_3674	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
14_6548	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
15_10828	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
16_6578	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
17_10233	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
18_9261	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
19_8450	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
20_1727	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
21_206	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
22_7439	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
23_3780	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
24_967	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
25_6595	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
26_8391	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
27_8170	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
28_5209	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
29_2181	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
30_8564	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
31_1582	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
32_4537	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
33_9418	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
34_1782	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
35_10360	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
36_468	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
37_4956	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
38_4305	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
39_4737	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
40_9543	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
41_6669	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
42_10558	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
43_8051	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
44_10454	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
45_10126	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
46_1547	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
47_6749	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
48_9982	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
49_7293	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
50_5993	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
51_4791	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
52_121	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
53_1667	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
54_10488	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
55_7733	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
56_3982	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
57_392	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
58_10291	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
59_5792	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
60_8712	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
61_6716	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
62_5599	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
63_304	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
64_10473	YMQRWLQLVLNLV	VAGLAI	AGVAGL	RDVAA	GAVG	VALLNNTTLGET
65_6310	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
66_8714	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
67_2350	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
68_2447	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
69_5658	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
70_1277	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
71_3717	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
72_7846	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
73_10528	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
74_4899	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
75_5507	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
76_5432	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
77_10770	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
78_5904	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
79_9653	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
80_4462	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
81_7194	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
82_1022	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
83_9813	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
84_1902	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
85_5152	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
86_3385	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
87_10760	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
88_1588	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
89_1609	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI
90_4023	RSARPSSLIVAYLFI	FIVL	TEATRARTYYLKR	QTVAA	SITAA	NCCVKFVLLI

	190	200	210	220	230	240
1_4160	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
2_6143	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
3_6554	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
4_111	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
5_5742	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
6_9490	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
7_6313	KGSFVALVGKTGSGKSLLKST	IGEGGHVSGSIIHIPLDKVA	AGRIGSGGSRLSGGQKQRL			
8_2552	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
9_7745	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
10_2315	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
11_2035	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
12_9640	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
13_3674	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
14_6548	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
15_10828	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
16_6578	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
17_10233	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
18_9261	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
19_8450	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
20_1727	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
21_206	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
22_7439	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
23_3780	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
24_967	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
25_6595	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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27_8170	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
28_5209	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
29_2181	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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31_1582	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
32_4537	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
33_9418	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
34_1782	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
35_10360	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
36_468	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
37_4956	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
38_4305	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
39_4737	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
40_9543	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
41_6669	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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43_8051	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
44_10454	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
45_10126	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
46_1547	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
47_6749	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
48_9982	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
49_7293	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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52_121	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
53_1667	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
54_10488	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
55_7733	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
56_3982	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
57_392	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
58_10291	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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60_8712	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
61_6716	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
62_5599	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
63_304	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
64_10473	SLETSIGAIA RVCTFEQDTP	PREREESTDLPDNRPGAGQ	ISFENWATYEDEGCGSNWG			
65_6310	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
66_8714	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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68_2447	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
69_5658	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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72_7846	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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78_5904	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
79_9653	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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84_1902	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
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86_3385	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
87_10760	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
88_1588	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
89_1609	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			
90_4023	SGSDGSRKKAASEDLAGPTNQ	TFFLWLNRLFLTGYRRAFT	TTTDLLELISSPLYVKSIRAQF			

	250	260	270	280	290	300
1_4160	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
2_6143	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
3_6554	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
4_111	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
5_5742	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
6_9490	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
7_6313	Q	DGF	SD	PR	GCC	EDWEQQFYLP
8_2552	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
9_7745	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
10_2315	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
11_2035	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
12_9640	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
13_3674	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
14_6548	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
15_10828	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
16_6578	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
17_10233	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
18_9261	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
19_8450	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
20_1727	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
21_206	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
22_7439	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
23_3780	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
24_967	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
25_6595	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
26_8391	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
27_8170	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
28_5209	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
29_2181	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
30_8564	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
31_1582	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
32_4537	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
33_9418	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
34_1782	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
35_10360	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
36_468	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
37_4956	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
38_4305	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
39_4737	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
40_9543	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
41_6669	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
42_10558	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
43_8051	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
44_10454	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
45_10126	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
46_1547	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
47_6749	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
48_9982	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
49_7293	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
50_5993	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
51_4791	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
52_121	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
53_1667	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
54_10488	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
55_7733	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
56_3982	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
57_392	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
58_10291	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
59_5792	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
60_8712	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
61_6716	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
62_5599	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
63_304	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
64_10473	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
65_6310	LS	GI	T	L	A	VQPGERVAVCGRTGSGKS
66_8714	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
67_2350	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
68_2447	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
69_5658	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
70_1277	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
71_3717	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
72_7846	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
73_10528	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
74_4899	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
75_5507	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
76_5432	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
77_10770	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
78_5904	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
79_9653	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
80_4462	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
81_7194	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
82_1022	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
83_9813	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
84_1902	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
85_5152	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
86_3385	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
87_10760	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
88_1588	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD
89_1609	HG	MT	NG	QT	ANGH	SLFSSSTNTFAL
90_4023	Q	AFT	SLG	SY	AL	APVIPRLAVTGFTFSQSFLVTALLD

	310	320	330	340	350	360
1_4160	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
2_6143	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
3_6554	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
4_111	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
5_5742	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
6_9490	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
7_6313	SDAKDTATDASNNEET	STAPDPGTASVTQN	ANNNGDQGVGTPV	SDKQVYLRYARAMGFR	NA	
8_2552	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
9_7745	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
10_2315	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
11_2035	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
12_9640	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
13_3674	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
14_6548	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
15_10828	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
16_6578	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
17_10233	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
18_9261	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
19_8450	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
20_1727	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
21_206	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
22_7439	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
23_3780	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
24_967	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
25_6595	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
26_8391	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
27_8170	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
28_5209	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
29_2181	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
30_8564	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
31_1582	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
32_4537	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
33_9418	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
34_1782	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
35_10360	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
36_468	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
37_4956	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
38_4305	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
39_4737	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
40_9543	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
41_6669	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
42_10558	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
43_8051	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
44_10454	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
45_10126	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
46_1547	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
47_6749	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
48_9982	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
49_7293	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
50_5993	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
51_4791	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
52_121	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
53_1667	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
54_10488	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
55_7733	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
56_3982	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
57_392	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
58_10291	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
59_5792	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
60_8712	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
61_6716	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
62_5599	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
63_304	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
64_10473	FTVVSQDSFFEP	TSTFRQELDP	SGDMSDQIIIEV	LR	ECRAW	EIVDGS
65_6310	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
66_8714	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
67_2350	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
68_2447	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
69_5658	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
70_1277	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
71_3717	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
72_7846	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
73_10528	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
74_4899	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
75_5507	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
76_5432	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
77_10770	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
78_5904	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
79_9653	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
80_4462	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
81_7194	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
82_1022	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
83_9813	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
84_1902	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
85_5152	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
86_3385	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
87_10760	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
88_1588	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
89_1609	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		
90_4023	YLENGRDRPASHGYG	LLGAYAFVYIGIAV	SNWSYSRHTYKSVS	IIRGGLIVSIFEKVLRL		

	370	380	390	400	410	420
1_4160	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
2_6143	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
3_6554	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
4_111	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
5_5742	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
6_9490	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
7_6313	GVFLLLMIGCAITL	KMPDLW	QWWSTAM	KEGDTY	GNYSYWIGILAL	LEVLP
8_2552	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
9_7745	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
10_2315	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
11_2035	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
12_9640	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
13_3674	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
14_6548	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
15_10828	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
16_6578	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
17_10233	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
18_9261	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
19_8450	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
20_1727	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
21_206	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
22_7439	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
23_3780	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
24_967	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
25_6595	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
26_8391	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
27_8170	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
28_5209	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
29_2181	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
30_8564	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
31_1582	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
32_4537	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
33_9418	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
34_1782	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
35_10360	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
36_468	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
37_4956	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
38_4305	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
39_4737	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
40_9543	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
41_6669	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
42_10558	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
43_8051	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
44_10454	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
45_10126	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
46_1547	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
47_6749	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
48_9982	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
49_7293	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
50_5993	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
51_4791	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
52_121	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
53_1667	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
54_10488	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
55_7733	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
56_3982	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
57_392	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
58_10291	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
59_5792	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
60_8712	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
61_6716	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
62_5599	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
63_304	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
64_10473	AGEVQLLA	IAIRLV	LQWQS	Q	PAGSGGII	LLDEATSNLDRQTEVLVES
65_6310	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
66_8714	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
67_2350	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
68_2447	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
69_5658	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
70_1277	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
71_3717	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
72_7846	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
73_10528	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
74_4899	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
75_5507	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
76_5432	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
77_10770	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
78_5904	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
79_9653	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
80_4462	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
81_7194	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
82_1022	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
83_9813	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
84_1902	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
85_5152	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
86_3385	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
87_10760	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
88_1588	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
89_1609	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG
90_4023	GEDSSIEAKATTLMI	SDVQRI	VGGLVY	IHEVWAGV	LETALATY	LLQRMGVSSVAMLG

	430	440	450	460	470	480
1_4160	L	S	C	G	V	G
2_6143	S	C	G	V	G	A
3_6554	L	S	C	G	V	G
4_111	L	S	C	G	V	G
5_5742	L	S	C	G	V	G
6_9490	L	S	C	G	V	G
7_6313	L	M	F	W	V	P
8_2552	L	S	C	G	V	G
9_7745	L	S	C	G	V	G
10_2315	L	S	C	G	V	G
11_2035	L	S	C	G	V	G
12_9640	L	S	C	G	V	G
13_3674	L	S	C	G	V	G
14_6548	L	S	C	G	V	G
15_10828	L	S	C	G	V	G
16_6578	L	S	C	G	V	G
17_10233	L	S	C	G	V	G
18_9261	L	S	C	G	V	G
19_8450	L	S	C	G	V	G
20_1727	L	S	C	G	V	G
21_206	L	S	C	G	V	G
22_7439	L	S	C	G	V	G
23_3780	L	S	C	G	V	G
24_967	L	S	C	G	V	G
25_6595	L	S	C	G	V	G
26_8391	L	S	C	G	V	G
27_8170	L	S	C	G	V	G
28_5209	L	S	C	G	V	G
29_2181	L	S	C	G	V	G
30_8564	L	S	C	G	V	G
31_1582	L	S	C	G	V	G
32_4537	L	S	C	G	V	G
33_9418	L	S	C	G	V	G
34_1782	L	S	C	G	V	G
35_10360	L	S	C	G	V	G
36_468	L	S	C	G	V	G
37_4956	L	S	C	G	V	G
38_4305	L	S	C	G	V	G
39_4737	L	S	C	G	V	G
40_9543	L	S	C	G	V	G
41_6669	L	S	C	G	V	G
42_10558	L	S	C	G	V	G
43_8051	L	S	C	G	V	G
44_10454	L	S	C	G	V	G
45_10126	L	S	C	G	V	G
46_1547	L	S	C	G	V	G
47_6749	L	S	C	G	V	G
48_9982	L	S	C	G	V	G
49_7293	L	S	C	G	V	G
50_5993	L	S	C	G	V	G
51_4791	L	S	C	G	V	G
52_121	L	S	C	G	V	G
53_1667	L	S	C	G	V	G
54_10488	L	S	C	G	V	G
55_7733	L	S	C	G	V	G
56_3982	L	S	C	G	V	G
57_392	L	S	C	G	V	G
58_10291	L	S	C	G	V	G
59_5792	L	S	C	G	V	G
60_8712	L	S	C	G	V	G
61_6716	L	S	C	G	V	G
62_5599	L	S	C	G	V	G
63_304	L	S	C	G	V	G
64_10473	M	H	R	L	E	A
65_6310	L	S	C	G	V	G
66_8714	L	S	C	G	V	G
67_2350	L	S	C	G	V	G
68_2447	L	S	C	G	V	G
69_5658	L	S	C	G	V	G
70_1277	L	S	C	G	V	G
71_3717	L	S	C	G	V	G
72_7846	L	S	C	G	V	G
73_10528	L	S	C	G	V	G
74_4899	L	S	C	G	V	G
75_5507	L	S	C	G	V	G
76_5432	L	S	C	G	V	G
77_10770	L	S	C	G	V	G
78_5904	L	S	C	G	V	G
79_9653	L	S	C	G	V	G
80_4462	L	S	C	G	V	G
81_7194	L	S	C	G	V	G
82_1022	L	S	C	G	V	G
83_9813	L	S	C	G	V	G
84_1902	L	S	C	G	V	G
85_5152	L	S	C	G	V	G
86_3385	L	S	C	G	V	G
87_10760	L	S	C	G	V	G
88_1588	L	S	C	G	V	G
89_1609	L	S	C	G	V	G
90_4023	L	S	C	G	V	G

	490	500	510	520	530	540
1_4160	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
2_6143	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
3_6554	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
4_111	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
5_5742	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
6_9490	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
7_6313	SEM	FVS	IFQ	LVL	VVV	SKEA
8_2552	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
9_7745	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
10_2315	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
11_2035	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
12_9640	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
13_3674	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
14_6548	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
15_10828	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
16_6578	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
17_10233	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
18_9261	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
19_8450	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
20_1727	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
21_206	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
22_7439	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
23_3780	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
24_967	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
25_6595	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
26_8391	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
27_8170	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
28_5209	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
29_2181	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
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31_1582	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
32_4537	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
33_9418	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
34_1782	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
35_10360	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
36_468	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
37_4956	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
38_4305	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
39_4737	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
40_9543	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
41_6669	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
42_10558	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
43_8051	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
44_10454	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
45_10126	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
46_1547	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
47_6749	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
48_9982	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
49_7293	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
50_5993	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
51_4791	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
52_121	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
53_1667	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
54_10488	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
55_7733	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
56_3982	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
57_392	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
58_10291	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
59_5792	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
60_8712	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
61_6716	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
62_5599	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
63_304	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
64_10473	.....	.....	.....	.....	.....	.....
65_6310	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
66_8714	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
67_2350	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
68_2447	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
69_5658	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
70_1277	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
71_3717	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
72_7846	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
73_10528	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
74_4899	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
75_5507	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
76_5432	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
77_10770	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
78_5904	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
79_9653	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
80_4462	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
81_7194	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
82_1022	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
83_9813	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
84_1902	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
85_5152	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
86_3385	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
87_10760	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
88_1588	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
89_1609	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM
90_4023	LEIQ	AARP	FFRAL	ITAS	SVIL	SYSTM

	550	560	570	580	590	600
1_4160	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
2_6143	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
3_6554	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
4_111	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
5_5742	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
6_9490	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
7_6313	GETAAGLSVIRANGWLGP	MRGKFDE	KLDRSQEP	FYLLYM	VQRWLQ	LVNLVVA
8_2552	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
9_7745	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
10_2315	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
11_2035	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
12_9640	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
13_3674	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
14_6548	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
15_10828	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
16_6578	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
17_10233	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
18_9261	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
19_8450	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
20_1727	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
21_206	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
22_7439	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
23_3780	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
24_967	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
25_6595	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
26_8391	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
27_8170	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
28_5209	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
29_2181	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
30_8564	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
31_1582	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
32_4537	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
33_9418	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
34_1782	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
35_10360	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
36_468	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
37_4956	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
38_4305	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
39_4737	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
40_9543	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
41_6669	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
42_10558	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
43_8051	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
44_10454	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
45_10126	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
46_1547	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
47_6749	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
48_9982	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
49_7293	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
50_5993	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
51_4791	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
52_121	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
53_1667	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
54_10488	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
55_7733	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
56_3982	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
57_392	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
58_10291	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
59_5792	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
60_8712	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
61_6716	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
62_5599	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
63_304	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
64_10473	.....	.....	.....	.....	.....	.....
65_6310	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
66_8714	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
67_2350	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
68_2447	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
69_5658	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
70_1277	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
71_3717	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
72_7846	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
73_10528	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
74_4899	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
75_5507	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
76_5432	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
77_10770	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
78_5904	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
79_9653	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
80_4462	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
81_7194	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
82_1022	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
83_9813	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
84_1902	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
85_5152	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
86_3385	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
87_10760	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
88_1588	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
89_1609	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ
90_4023	GSPLVHLFQAMPALGSAHGC	FERILAF	LKTPEKPLTI	KN	ETMPESNR	GTKDASIQ

	610	620	630	640	650	660
1_4160	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
2_6143	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
3_6554	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
4_111	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
5_5742	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
6_9490	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
7_6313	GVAIGLREQVAAA	AVGVALINTTTLGETLTNFIVSW	TSLTSLGAIARVCAFEQDTPRER			
8_2552	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
9_7745	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
10_2315	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
11_2035	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
12_9640	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
13_3674	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
14_6548	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
15_10828	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
16_6578	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
17_10233	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
18_9261	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
19_8450	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
20_1727	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
21_206	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
22_7439	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
23_3780	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
24_967	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
25_6595	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
26_8391	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
27_8170	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
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29_2181	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
30_8564	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
31_1582	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
32_4537	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
33_9418	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
34_1782	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
35_10360	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
36_468	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
37_4956	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
38_4305	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
39_4737	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
40_9543	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
41_6669	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
42_10558	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
43_8051	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
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45_10126	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
46_1547	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
47_6749	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
48_9982	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
49_7293	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
50_5993	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
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52_121	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
53_1667	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
54_10488	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
55_7733	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
56_3982	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
57_392	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
58_10291	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
59_5792	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
60_8712	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
61_6716	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
62_5599	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
63_304	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
64_10473	.....	.....	.....
65_6310	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
66_8714	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
67_2350	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
68_2447	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
69_5658	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
70_1277	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
71_3717	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
72_7846	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
73_10528	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
74_4899	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
75_5507	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
76_5432	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
77_10770	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
78_5904	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
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82_1022	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
83_9813	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
84_1902	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
85_5152	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
86_3385	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
87_10760	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
88_1588	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
89_1609	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			
90_4023	ANETALSIRHASIGWSPDEPVLK	DINLQIQKGSFVALVGKTGSGK	SLLLKSAIGEGGHVS			

	670	680	690	700	710	720
1_4160	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
2_6143	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
3_6554	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
4_111	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
5_5742	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
6_9490	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
7_6313	EEPATTDLPDNPWGAGQISFENVWATYDEEG	CDGNWGLSGITLGIQPGERVAVCGRTGSG				
8_2552	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
9_7745	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
10_2315	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
11_2035	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
12_9640	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
13_3674	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
14_6548	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
15_10828	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
16_6578	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
17_10233	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
18_9261	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
19_8450	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
20_1727	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
21_206	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
22_7439	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
23_3780	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
24_967	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
25_6595	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
26_8391	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
27_8170	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
28_5209	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
29_2181	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
30_8564	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
31_1582	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
32_4537	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
33_9418	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
34_1782	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
35_10360	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
36_468	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
37_4956	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
38_4305	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
39_4737	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
40_9543	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
41_6669	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
42_10558	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
43_8051	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
44_10454	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
45_10126	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
46_1547	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
47_6749	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
48_9982	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
49_7293	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
50_5993	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
51_4791	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
52_121	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
53_1667	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
54_10488	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
55_7733	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
56_3982	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
57_392	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
58_10291	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
59_5792	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
60_8712	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
61_6716	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
62_5599	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
63_304	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
64_10473	.....	.....	.....
65_6310	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
66_8714	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
67_2350	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
68_2447	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
69_5658	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
70_1277	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
71_3717	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
72_7846	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
73_10528	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
74_4899	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
75_5507	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
76_5432	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
77_10770	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
78_5904	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
79_9653	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
80_4462	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
81_7194	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
82_1022	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
83_9813	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
84_1902	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
85_5152	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
86_3385	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
87_10760	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
88_1588	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
89_1609	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			
90_4023	GSIDISLDKVVAYCSQSPWLENISAEHTWTQF	GESGDAKWLAGVIDACCLDDLTGLP	DYRT			

	730	740	750	760	770	780
1_4160	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
2_6143	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
3_6554	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
4_111	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
5_5742	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
6_9490	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
7_6313	KSTLLALLLGMHVPA	GSIRLDDMDTSTLPI	SVLRRRFTTVVSQDS	SFF	EPTSTFRQ	ELDPS
8_2552	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
9_7745	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
10_2315	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
11_2035	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
12_9640	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
13_3674	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
14_6548	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
15_10828	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
16_6578	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
17_10233	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
18_9261	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
19_8450	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
20_1727	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
21_206	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
22_7439	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
23_3780	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
24_967	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
25_6595	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
26_8391	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
27_8170	GRIGSGGARLSGGQKQRLALART	IATRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
28_5209	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
29_2181	GRIGSGGARLSGGQKQRLALART	IATRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
30_8564	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
31_1582	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
32_4537	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
33_9418	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
34_1782	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
35_10360	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
36_468	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
37_4956	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
38_4305	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
39_4737	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
40_9543	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
41_6669	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
42_10558	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
43_8051	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
44_10454	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
45_10126	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
46_1547	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
47_6749	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
48_9982	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
49_7293	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
50_5993	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
51_4791	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
52_121	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
53_1667	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
54_10488	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
55_7733	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
56_3982	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
57_392	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
58_10291	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
59_5792	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
60_8712	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
61_6716	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
62_5599	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
63_304	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
64_10473	.....				
65_6310	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
66_8714	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
67_2350	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
68_2447	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
69_5658	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
70_1277	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
71_3717	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
72_7846	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
73_10528	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
74_4899	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
75_5507	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
76_5432	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
77_10770	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
78_5904	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
79_9653	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
80_4462	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
81_7194	GRIGSGGARLSGGQKQRLPHG	FSGPRGFC	EGWERQYYLQLTTVT	NLADQVYEITVD	GILT	
82_1022	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
83_9813	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
84_1902	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
85_5152	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
86_3385	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
87_10760	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
88_1588	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
89_1609	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			
90_4023	GRIGSGGARLSGGQKQRLALARAIA	TRKDIVLLDDVFSALDR	TTKHHIATRLLGPEGLLR			

	790	800	810	820	830	840
1_4160	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
2_6143	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
3_6554	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
4_111	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
5_5742	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
6_9490	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
7_6313	GDISDQVMEEMLRRCRVWEVVENSGGLGAKRADSKLSAGETQLL	IATARLLLQWSQ	PAGS			
8_2552	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
9_7745	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
10_2315	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
11_2035	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
12_9640	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
13_3674	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
14_6548	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
15_10828	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
16_6578	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
17_10233	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
18_9261	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
19_8450	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
20_1727	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
21_206	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
22_7439	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
23_3780	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
24_967	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
25_6595	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
26_8391	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
27_8170	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
28_5209	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
29_2181	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
30_8564	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
31_1582	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
32_4537	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
33_9418	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
34_1782	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
35_10360	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
36_468	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
37_4956	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
38_4305	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
39_4737	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
40_9543	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
41_6669	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
42_10558	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
43_8051	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
44_10454	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
45_10126	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
46_1547	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
47_6749	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
48_9982	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
49_7293	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
50_5993	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
51_4791	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
52_121	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
53_1667	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
54_10488	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
55_7733	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
56_3982	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
57_392	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
58_10291	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
59_5792	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
60_8712	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
61_6716	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
62_5599	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
63_304	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
64_10473	.....				
65_6310	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
66_8714	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
67_2350	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
68_2447	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
69_5658	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
70_1277	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
71_3717	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
72_7846	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
73_10528	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
74_4899	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
75_5507	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
76_5432	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
77_10770	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
78_5904	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
79_9653	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
80_4462	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
81_7194	PVLVQKPADDEG	TKHEDSDAKY	TVTDAS	NDEK	ISTAPDHG	TNTVMTHKVENGG
82_1022	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
83_9813	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
84_1902	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
85_5152	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
86_3385	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
87_10760	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
88_1588	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
89_1609	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			
90_4023	RLGTTVLFATHDSSIANLADQVYEITVDGILTPVLVQKPADDEG	TKHEDSDAKY	TVTDAS			

	850	860	870	880	890	900
1_4160	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
2_6143	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
3_6554	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
4_111	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
5_5742	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
6_9490	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
7_6313	GGIILL	DEATS	NLDRQ	TEVHLE	SVMAARI	QHATVVSVMHRLEAVAAVDKVAIILDKGVLVLD
8_2552	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
9_7745	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
10_2315	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
11_2035	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
12_9640	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
13_3674	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
14_6548	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
15_10828	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
16_6578	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
17_10233	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
18_9261	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
19_8450	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
20_1727	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
21_206	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
22_7439	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
23_3780	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
24_967	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
25_6595	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
26_8391	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
27_8170	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
28_5209	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
29_2181	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
30_8564	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
31_1582	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
32_4537	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
33_9418	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
34_1782	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
35_10360	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
36_468	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
37_4956	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
38_4305	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
39_4737	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
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42_10558	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
43_8051	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
44_10454	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
45_10126	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
46_1547	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
47_6749	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
48_9982	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
49_7293	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
50_5993	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
51_4791	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
52_121	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
53_1667	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
54_10488	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
55_7733	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
56_3982	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
57_392	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
58_10291	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
59_5792	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
60_8712	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
61_6716	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
62_5599	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
63_304	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
64_10473	.....	.....	.....	.....	.....	.....
65_6310	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
66_8714	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
67_2350	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
68_2447	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
69_5658	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
70_1277	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
71_3717	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
72_7846	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
73_10528	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
74_4899	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
75_5507	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
76_5432	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
77_10770	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
78_5904	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
79_9653	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
80_4462	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
81_7194	SDKKVYL	RYARAMG	FKNAATF	FLFLVMG	CAVCFKIP	DLWQWSTAIKQGTITYSSSYWIGI
82_1022	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
83_9813	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
84_1902	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
85_5152	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
86_3385	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
87_10760	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
88_1588	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
89_1609	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC
90_4023	NDEKT	STAPDHG	TNTVM	THKVEN	GGEATG	TSVSDKKVYLRYARAMGFKNAATFLFLVMGC

	910	920	930	940	950	960
1_4160	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
2_6143	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
3_6554	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
4_111	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
5_5742	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
6_9490	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
7_6313	FGPVADVMARCEL	FGA.....				
8_2552	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
9_7745	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
10_2315	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
11_2035	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
12_9640	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
13_3674	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
14_6548	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
15_10828	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
16_6578	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
17_10233	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
18_9261	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
19_8450	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
20_1727	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
21_206	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
22_7439	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
23_3780	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
24_967	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
25_6595	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
26_8391	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
27_8170	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
28_5209	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
29_2181	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
30_8564	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
31_1582	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
32_4537	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
33_9418	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
34_1782	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
35_10360	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
36_468	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
37_4956	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
38_4305	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
39_4737	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
40_9543	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
41_6669	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
42_10558	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
43_8051	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
44_10454	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
45_10126	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
46_1547	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
47_6749	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
48_9982	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
49_7293	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
50_5993	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
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52_121	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
53_1667	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
54_10488	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
55_7733	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
56_3982	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
57_392	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
58_10291	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
59_5792	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
60_8712	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
61_6716	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
62_5599	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
63_304	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
64_10473	.....				
65_6310	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
66_8714	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
67_2350	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
68_2447	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
69_5658	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
70_1277	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
71_3717	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
72_7846	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
73_10528	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
74_4899	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
75_5507	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
76_5432	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
77_10770	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
78_5904	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
79_9653	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
80_4462	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
81_7194	LALLEVL	PLLMLWLS	SLFHVLFFIVPRSA	STMHDS	LLRTVLLAPFGF	ISRVDTGSLMNRFN
82_1022	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
83_9813	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
84_1902	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
85_5152	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
86_3385	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
87_10760	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
88_1588	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
89_1609	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA
90_4023	AVCFKIPDLWVQWW	STAIKQGT	TYSSSYW	IGILALLEVL	PLLMLWLS	SLFHVLFFIVPRSA

	970	980	990	1000	1010	1020
1_4160	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
2_6143	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
3_6554	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
4_111	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
5_5742	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
6_9490	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
7_6313					
8_2552	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
9_7745	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
10_2315	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
11_2035	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
12_9640	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
13_3674	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
14_6548	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
15_10828	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
16_6578	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
17_10233	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
18_9261	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
19_8450	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
20_1727	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
21_206	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
22_7439	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
23_3780	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
24_967	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
25_6595	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
26_8391	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
27_8170	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
28_5209	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
29_2181	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
30_8564	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
31_1582	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
32_4537	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
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47_6749	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
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82_1022	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
83_9813	STMHDSLLRTVLLAPFGFISRVDTGSLMNRFNQDLMFVDTRLPIDLFNTSIDFFITIIQL					
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2_6143	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
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7_6313					
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73_10528	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
74_4899	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
75_5507	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
76_5432	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
77_10770	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
78_5904	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
79_9653	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
80_4462	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
81_7194	KQLRLLDLDWKADLHTAFGETTAGLSVIRANGWLDPMRAKFAEKLDRSQEPFYLLYLMVQR					
82_1022	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
83_9813	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
84_1902	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
85_5152	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
86_3385	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
87_10760	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
88_1588	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
89_1609	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					
90_4023	ILVVLSKEALAILPVVFGALYLIQKVYLRSSKQLRLLDLDWKADLHTAFGETTAGLSVI					

	1090	1100	1110	1120	1130	1140
1_4160	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
2_6143	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
3_6554	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
4_111	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
5_5742	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
6_9490	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
7_6313	.....				
8_2552	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
9_7745	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
10_2315	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
11_2035	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
12_9640	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
13_3674	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
14_6548	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
15_10828	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
16_6578	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
17_10233	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
18_9261	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
19_8450	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
20_1727	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
21_206	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
22_7439	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
23_3780	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
24_967	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
25_6595	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
26_8391	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
27_8170	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
28_5209	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
29_2181	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
30_8564	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
31_1582	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
32_4537	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
33_9418	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
34_1782	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
35_10360	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
36_468	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
37_4956	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
38_4305	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
39_4737	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
40_9543	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
41_6669	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
42_10558	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
43_8051	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
44_10454	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
45_10126	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
46_1547	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
47_6749	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
48_9982	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
49_7293	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
50_5993	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
51_4791	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
52_121	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
53_1667	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
54_10488	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
55_7733	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
56_3982	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
57_392	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
58_10291	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
59_5792	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
60_8712	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
61_6716	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
62_5599	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
63_304	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
64_10473	.....				
65_6310	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
66_8714	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
67_2350	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
68_2447	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
69_5658	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
70_1277	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
71_3717	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
72_7846	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
73_10528	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
74_4899	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
75_5507	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
76_5432	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
77_10770	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
78_5904	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
79_9653	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
80_4462	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
81_7194	WLQVLNLVVAGL	AI	AIAGVAIGLRDKV	AAGAVGVALLNTTTLGETLTNFIMSWTSLETS		
82_1022	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
83_9813	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
84_1902	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
85_5152	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
86_3385	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
87_10760	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
88_1588	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
89_1609	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV
90_4023	RANGWLDPMRAKFAEKLDRS	QEPFYLLY	MVQRWLQ	LVNLVVAGL	AI	AIAGVAIGLRDKV

	1150	1160	1170	1180	1190	1200
1_4160	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
2_6143	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
3_6554	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
4_111	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
5_5742	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
6_9490	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
7_6313	.....				
8_2552	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
9_7745	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
10_2315	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
11_2035	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
12_9640	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
13_3674	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
14_6548	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
15_10828	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
16_6578	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
17_10233	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
18_9261	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
19_8450	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
20_1727	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
21_206	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
22_7439	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
23_3780	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
24_967	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
25_6595	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
26_8391	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
27_8170	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
28_5209	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
29_2181	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
30_8564	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
31_1582	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
32_4537	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
33_9418	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
34_1782	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
35_10360	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
36_468	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
37_4956	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
38_4305	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
39_4737	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
40_9543	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
41_6669	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
42_10558	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
43_8051	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
44_10454	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
45_10126	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
46_1547	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
47_6749	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
48_9982	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
49_7293	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
50_5993	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
51_4791	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
52_121	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
53_1667	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
54_10488	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
55_7733	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
56_3982	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
57_392	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
58_10291	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
59_5792	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
60_8712	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
61_6716	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
62_5599	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
63_304	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
64_10473	.....				
65_6310	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
66_8714	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
67_2350	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
68_2447	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
69_5658	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
70_1277	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
71_3717	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
72_7846	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
73_10528	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
74_4899	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
75_5507	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
76_5432	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
77_10770	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
78_5904	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
79_9653	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
80_4462	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
81_7194	LGAIAR	VCTFEQ	DTPRER	EEPST	TDLPD	NRPGAGQISFENVWATYEDEGCGSNWGLSGIT
82_1022	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
83_9813	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
84_1902	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
85_5152	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
86_3385	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
87_10760	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
88_1588	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
89_1609	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS
90_4023	AAGAVG	VALLNT	TTTLGE	TLTNFI	MSWTS	LETS

	1210	1220	1230	1240	1250	1260
1_4160	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
2_6143	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
3_6554	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
4_111	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
5_5742	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
6_9490	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
7_6313	.....				
8_2552	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
9_7745	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
10_2315	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
11_2035	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
12_9640	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
13_3674	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
14_6548	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
15_10828	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
16_6578	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
17_10233	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
18_9261	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
19_8450	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
20_1727	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
21_206	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
22_7439	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
23_3780	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
24_967	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
25_6595	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
26_8391	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
27_8170	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
28_5209	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
29_2181	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
30_8564	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
31_1582	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
32_4537	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
33_9418	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
34_1782	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
35_10360	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
36_468	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
37_4956	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
38_4305	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
39_4737	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
40_9543	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
41_6669	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
42_10558	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
43_8051	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
44_10454	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
45_10126	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
46_1547	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
47_6749	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
48_9982	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
49_7293	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
50_5993	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
51_4791	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
52_121	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
53_1667	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
54_10488	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
55_7733	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
56_3982	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
57_392	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
58_10291	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
59_5792	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
60_8712	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
61_6716	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
62_5599	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
63_304	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
64_10473	.....				
65_6310	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
66_8714	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
67_2350	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
68_2447	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
69_5658	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
70_1277	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
71_3717	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
72_7846	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
73_10528	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
74_4899	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
75_5507	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
76_5432	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
77_10770	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
78_5904	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
79_9653	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
80_4462	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
81_7194	LAVQPGERVAVCGRT	TGSGKSTLLLLALLG	MLHTPAGSIRIDGVD	STLPIDVLRRRFTVVS		
82_1022	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
83_9813	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
84_1902	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
85_5152	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
86_3385	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
87_10760	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
88_1588	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
89_1609	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		
90_4023	NRPGAGQISFENVWATY	EDEGCGSNWGLSGIT	TLAVQPGERVAVCGRT	TGSGKSTLLLLALLG		

	1270	1280	1290	1300	1310	1320
1_4160	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
2_6143	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
3_6554	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
4_111	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
5_5742	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
6_9490	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
7_6313	.....				
8_2552	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
9_7745	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
10_2315	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
11_2035	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
12_9640	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
13_3674	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
14_6548	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
15_10828	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
16_6578	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
17_10233	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
18_9261	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
19_8450	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
20_1727	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
21_206	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
22_7439	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
23_3780	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
24_967	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
25_6595	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
26_8391	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
27_8170	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
28_5209	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
29_2181	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
30_8564	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
31_1582	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
32_4537	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
33_9418	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
34_1782	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
35_10360	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
36_468	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
37_4956	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
38_4305	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
39_4737	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
40_9543	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
41_6669	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
42_10558	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
43_8051	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
44_10454	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
45_10126	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
46_1547	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
47_6749	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
48_9982	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
49_7293	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
50_5993	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
51_4791	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
52_121	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
53_1667	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
54_10488	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
55_7733	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
56_3982	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
57_392	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
58_10291	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
59_5792	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
60_8712	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
61_6716	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
62_5599	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
63_304	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
64_10473	.....				
65_6310	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
66_8714	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
67_2350	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
68_2447	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
69_5658	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
70_1277	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
71_3717	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
72_7846	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
73_10528	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
74_4899	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
75_5507	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
76_5432	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
77_10770	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
78_5904	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
79_9653	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
80_4462	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
81_7194	QDSFFEPT	TSTFRQEL	DPSGDM	SDQIIIE	EVLR	ECRAW
82_1022	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
83_9813	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
84_1902	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
85_5152	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
86_3385	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
87_10760	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
88_1588	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
89_1609	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS
90_4023	MLHTPAGS	IRIDGVD	TSTLP	IDVLR	RRFTV	VVSQDS

	1330	1340	1350	1360	1370	1380
1_4160	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
2_6143	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
3_6554	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
4_111	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
5_5742	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
6_9490	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
7_6313	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
8_2552	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
9_7745	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
10_2315	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
11_2035	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
12_9640	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
13_3674	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
14_6548	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
15_10828	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
16_6578	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
17_10233	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
18_9261	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
19_8450	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
20_1727	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
21_206	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
22_7439	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
23_3780	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
24_967	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
25_6595	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
26_8391	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
27_8170	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
28_5209	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
29_2181	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
30_8564	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
31_1582	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
32_4537	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
33_9418	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
34_1782	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
35_10360	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
36_468	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
37_4956	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
38_4305	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
39_4737	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
40_9543	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
41_6669	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
42_10558	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
43_8051	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
44_10454	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
45_10126	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
46_1547	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
47_6749	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
48_9982	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
49_7293	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
50_5993	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
51_4791	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
52_121	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
53_1667	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
54_10488	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
55_7733	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
56_3982	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
57_392	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
58_10291	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
59_5792	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
60_8712	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
61_6716	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
62_5599	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
63_304	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
64_10473	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
65_6310	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
66_8714	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
67_2350	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
68_2447	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
69_5658	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
70_1277	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
71_3717	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
72_7846	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
73_10528	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
74_4899	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
75_5507	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
76_5432	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
77_10770	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
78_5904	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
79_9653	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
80_4462	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
81_7194	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
82_1022	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
83_9813	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
84_1902	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
85_5152	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
86_3385	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
87_10760	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
88_1588	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
89_1609	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS
90_4023	VLRECR	AI	IVDGS	GGGLG	GKRA	DANLS

	1390	1400	1410	1420	1430	1440
1_4160	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
2_6143	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
3_6554	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
4_111	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
5_5742	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
6_9490	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
7_6313	.....				
8_2552	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
9_7745	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
10_2315	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
11_2035	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
12_9640	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
13_3674	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
14_6548	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
15_10828	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
16_6578	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
17_10233	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
18_9261	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
19_8450	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
20_1727	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
21_206	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
22_7439	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
23_3780	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
24_967	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
25_6595	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
26_8391	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
27_8170	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
28_5209	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
29_2181	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
30_8564	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
31_1582	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
32_4537	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
33_9418	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
34_1782	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
35_10360	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
36_468	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
37_4956	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
38_4305	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
39_4737	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
40_9543	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
41_6669	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
42_10558	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
43_8051	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
44_10454	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
45_10126	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
46_1547	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
47_6749	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
48_9982	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
49_7293	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
50_5993	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
51_4791	SVMHRL	EA	VAA	YDKVAVL	D	KGVLVDFG
52_121	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
53_1667	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
54_10488	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
55_7733	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
56_3982	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
57_392	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
58_10291	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
59_5792	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
60_8712	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
61_6716	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
62_5599	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
63_304	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
64_10473	.....				
65_6310	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
66_8714	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
67_2350	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
68_2447	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
69_5658	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
70_1277	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
71_3717	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
72_7846	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
73_10528	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
74_4899	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
75_5507	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
76_5432	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
77_10770	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
78_5904	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
79_9653	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
80_4462	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
81_7194	AVAA	YDKVAVL	D	KGVLVDFG	P	VTDMARCELFTG
82_1022	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
83_9813	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
84_1902	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
85_5152	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
86_3385	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
87_10760	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
88_1588	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
89_1609	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL
90_4023	SNLDRQTEVLVES	IMAARLQHATVVS	VMHRL	EA	VAA	YDKVAVL

1_4160	CELFTG
2_6143	CELFTG
3_6554	CELFTG
4_111	CELFTG
5_5742	CELFTG
6_9490	CELFTG
7_6313
8_2552	CELFTG
9_7745	CELFTG
10_2315	CELFTG
11_2035	CELFTG
12_9640	CELFTG
13_3674	CELFTG
14_6548	CELFTG
15_10828	CELFTG
16_6578	CELFTG
17_10233	CELFTG
18_9261	CELFTG
19_8450	CELFTG
20_1727	CELFTG
21_206	CELFTG
22_7439	CELFTG
23_3780	CELFTG
24_967	CELFTG
25_6595	CELFTG
26_8391	CELFTG
27_8170	CELFTG
28_5209	CELFTG
29_2181	CELFTG
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32_4537	CELFTG
33_9418	CELFTG
34_1782	CELFTG
35_10360	CELFTG
36_468	CELFTG
37_4956	CELFTG
38_4305	CELFTG
39_4737	CELFTG
40_9543	CELFTG
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42_10558	CELFTG
43_8051	CELFTG
44_10454	CELFTG
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47_6749	CELFTG
48_9982	CELFTG
49_7293	CELFTG
50_5993	CELFTG
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77_10770	CELFTG
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87_10760	CELFTG
88_1588	CELFTG
89_1609	CELFTG
90_4023	CELFTG