

| | 1 | 10 | 20 | 30 | 40 | 50 | 60 |
|----------|-------------------|------------------|------------------|----------------|----|----|----|
| 1_1896 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 2_4785 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 3_3653 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 4_8157 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 5_752 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 6_8853 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 7_4015 | MIVAFKYGPLMTLVIT | ASVPIAMFIMRAISQ | MLEKAIRAQKEKQAV | ATKLSAAAITGIDL | | | |
| 8_2020 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 9_1829 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 10_6452 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 11_8627 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 12_6118 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 13_2688 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 14_6406 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 15_9419 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 16_8507 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 17_5884 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 18_2670 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 19_5172 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 20_8057 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 21_4920 | MTFKPGKMTFLVGRS | GSGKSTITNLLVKFY | EPLSGEILLDEHPL | QTLNSEWVRKNVTL | VQ | | |
| 22_6393 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 23_8263 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 24_8248 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 25_6733 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 26_2277 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 27_2623 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 28_7413 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 29_8980 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 30_8706 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 31_6378 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 32_4679 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 33_2437 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 34_9700 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 35_10218 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 36_2652 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 37_5779 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 38_654 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 39_4879 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 40_8113 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 41_1767 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 42_8428 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 43_9819 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 44_5569 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 45_4189 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 46_1027 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 47_5048 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 48_10124 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 49_7151 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 50_3695 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 51_364 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 52_242 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 53_5225 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 54_1635 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 55_5766 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 56_1557 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 57_10137 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 58_10525 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 59_3457 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 60_8244 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 61_7964 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 62_4413 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 63_6958 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 64_5997 | MNSENVSDKVKAAACE | MALLQSTIAGLPQGL | DLTVGPGGQSLSGG | QQRQVALARARLR | LD | | |
| 65_8711 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 66_9925 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 67_10374 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 68_3713 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 69_4511 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 70_6201 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 71_3261 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 72_8516 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 73_9295 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 74_809 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 75_7282 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 76_4910 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 77_10912 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 78_4020 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 79_6703 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 80_8619 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 81_4126 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 82_1363 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 83_5813 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 84_2044 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 85_7617 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 86_1530 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 87_1890 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 88_7049 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 89_440 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |
| 90_4331 | MVREDVQDSHLEGSSNV | SACTSTFHLEDSSFES | IDKEFLYSHTMPGNKH | DSMQPHRRPES | | | |

| | 70 | 80 | 90 | 100 | 110 | 120 |
|----------|---|----|----|-----|-----|-----|
| 1_1896 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 2_4785 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 3_3653 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 4_8157 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 5_752 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 6_8853 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 7_4015 | VKVYNSHEHELHNFRLLAAREAGKHARVQTMWNALQAAFIKIYMAVVFLSGFFFGIYQVDQ | | | | | |
| 8_2020 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 9_1829 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 10_6452 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 11_8627 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 12_6118 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 13_2688 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 14_6406 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 15_9419 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 16_8507 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 17_5884 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 18_2670 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 19_5172 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 20_8057 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 21_4920 | QOSTLFSDTLYANIAMNSENVSQDKVKAACEMALLQSTIAGLPQGLDVLGPGGGQSLSGG | | | | | |
| 22_6393 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 23_8263 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 24_8248 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 25_6733 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 26_2277 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 27_2623 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 28_7413 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 29_8980 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 30_8706 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 31_6378 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 32_4679 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 33_2437 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 34_9700 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 35_10218 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 36_2652 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 37_5779 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 38_654 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 39_4879 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 40_8113 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 41_1767 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 42_8428 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 43_9819 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 44_5569 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 45_4189 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 46_1027 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 47_5048 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 48_10124 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 49_7151 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 50_3695 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 51_364 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 52_242 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 53_5225 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 54_1635 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 55_5766 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 56_1557 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 57_10137 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 58_10525 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 59_3457 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 60_8244 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 61_7964 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 62_4413 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 63_6958 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 64_5997 | PVLILDVTSGLDPKSKLMIMDAIRYWRSGRTTIVITHDVSQVGDDDDYVYVMDKAEVREE | | | | | |
| 65_8711 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 66_9925 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 67_10374 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 68_3713 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 69_4511 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 70_6201 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 71_3261 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 72_8516 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 73_9295 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 74_809 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 75_7282 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 76_4910 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 77_10912 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 78_4020 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 79_6703 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 80_8619 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 81_4126 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 82_1363 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 83_5813 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 84_2044 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 85_7617 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 86_1530 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 87_1890 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 88_7049 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 89_440 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |
| 90_4331 | LYNMDQEKAPKRPDQSSSTLDQPKESVDSAAATWRDLFNFNPNRHLVVLVTALFASAVAV | | | | | |

| | 130 | 140 | 150 | 160 | 170 | 180 |
|----------|---------|----------|----------|----------|--------------|-----------------------|
| 1_1896 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 2_4785 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 3_3653 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 4_8157 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 5_752 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 6_8853 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 7_4015 | GNMSAGD | VITTFYAL | STFQGVQ | GLGPHILN | LVRGMOAGK | ALKSVVFD |
| 8_2020 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 9_1829 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 10_6452 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 11_8627 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 12_6118 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 13_2688 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 14_6406 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 15_9419 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 16_8507 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 17_5884 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 18_2670 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 19_5172 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 20_8057 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 21_4920 | QRQRV | ALARARL | RDPVLIL | DEVTSGLD | PKSKLMIMDA | IRYWRSGR |
| 22_6393 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 23_8263 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 24_8248 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 25_6733 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 26_2277 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 27_2623 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 28_7413 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 29_8980 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 30_8706 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 31_6378 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 32_4679 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 33_2437 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 34_9700 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 35_10218 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 36_2652 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 37_5779 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 38_654 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 39_4879 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 40_8113 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 41_1767 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 42_8428 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 43_9819 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 44_5569 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 45_4189 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 46_1027 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 47_5048 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 48_10124 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 49_7151 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 50_3695 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 51_364 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 52_242 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 53_5225 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 54_1635 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 55_5766 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 56_1557 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 57_10137 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 58_10525 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 59_3457 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 60_8244 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 61_7964 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 62_4413 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 63_6958 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 64_5997 | GLCKQL | LSSRDGYF | LQLRAL | AESGAD | SNPEGVMT | PEDDLSSL |
| 65_8711 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 66_9925 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 67_10374 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 68_3713 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 69_4511 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 70_6201 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 71_3261 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 72_8516 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 73_9295 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 74_809 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 75_7282 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 76_4910 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 77_10912 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 78_4020 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 79_6703 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 80_8619 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 81_4126 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 82_1363 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 83_5813 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 84_2044 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 85_7617 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 86_1530 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 87_1890 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 88_7049 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 89_440 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |
| 90_4331 | GADIAGV | IIFGNVFQ | ELTSYAAR | QLGP | EEARRNVNFWVS | IIAALAVTHLIAAATQMGSWI |

| | 190 | 200 | 210 | 220 | 230 | 240 |
|----------|------|------|-------|------|------|------|
| 1_1896 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 2_4785 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 3_3653 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 4_8157 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 5_752 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 6_8853 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 7_4015 | VFEG | RVEV | KSVS | FAYP | SSPA | VOVL |
| 8_2020 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 9_1829 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 10_6452 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 11_8627 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 12_6118 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 13_2688 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 14_6406 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 15_9419 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 16_8507 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 17_5884 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 18_2670 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 19_5172 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 20_8057 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 21_4920 | DDYV | VM | DKAE | VREE | GLCK | QLLS |
| 22_6393 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 23_8263 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 24_8248 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 25_6733 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 26_2277 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 27_2623 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 28_7413 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 29_8980 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 30_8706 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 31_6378 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 32_4679 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 33_2437 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 34_9700 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 35_10218 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 36_2652 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 37_5779 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 38_654 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 39_4879 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 40_8113 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 41_1767 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 42_8428 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 43_9819 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 44_5569 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 45_4189 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 46_1027 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 47_5048 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 48_10124 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 49_7151 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 50_3695 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 51_364 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 52_242 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 53_5225 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 54_1635 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 55_5766 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 56_1557 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 57_10137 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 58_10525 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 59_3457 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 60_8244 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 61_7964 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 62_4413 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 63_6958 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 64_5997 | IPEP | KTT | SSFG | ALGR | MSFV | IPGT |
| 65_8711 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 66_9925 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 67_10374 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 68_3713 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 69_4511 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 70_6201 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 71_3261 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 72_8516 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 73_9295 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 74_809 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 75_7282 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 76_4910 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 77_10912 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 78_4020 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 79_6703 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 80_8619 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 81_4126 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 82_1363 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 83_5813 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 84_2044 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 85_7617 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 86_1530 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 87_1890 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 88_7049 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 89_440 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |
| 90_4331 | KYGE | MQAR | SARLE | LFRR | MLSK | QMGW |

| | 250 | 260 | 270 | 280 | 290 | 300 |
|----------|-------|---------|--------|-------|-------|--|
| 1_1896 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 2_4785 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 3_3653 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 4_8157 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 5_752 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 6_8853 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 7_4015 | LSGE | ILLDEHP | IQTL | DSEW | RKNV | TLVQQQSTLFS |
| 8_2020 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 9_1829 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 10_6452 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 11_8627 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 12_6118 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 13_2688 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 14_6406 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 15_9419 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 16_8507 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 17_5884 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 18_2670 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 19_5172 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 20_8057 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 21_4920 | SEDEL | DVDM | SGKSFY | IPEPK | TTS | SFGALGRMSFVPIPGTNGPIYTPNQPGSGAYLQLHR |
| 22_6393 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 23_8263 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 24_8248 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 25_6733 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 26_2277 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 27_2623 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 28_7413 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 29_8980 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 30_8706 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 31_6378 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 32_4679 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 33_2437 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 34_9700 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 35_10218 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 36_2652 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 37_5779 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 38_654 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 39_4879 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 40_8113 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 41_1767 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 42_8428 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 43_9819 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 44_5569 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 45_4189 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 46_1027 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 47_5048 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 48_10124 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 49_7151 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 50_3695 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 51_364 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 52_242 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 53_5225 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 54_1635 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 55_5766 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 56_1557 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 57_10137 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 58_10525 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 59_3457 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 60_8244 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 61_7964 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 62_4413 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 63_6958 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 64_5997 | QDAE | VSKP | RRGS | IDLI | QARGL | SALANRSPVKRPLPQGGRI |
| 65_8711 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 66_9925 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 67_10374 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 68_3713 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 69_4511 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 70_6201 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 71_3261 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 72_8516 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 73_9295 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 74_809 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 75_7282 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 76_4910 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 77_10912 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 78_4020 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 79_6703 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 80_8619 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 81_4126 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 82_1363 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 83_5813 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 84_2044 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 85_7617 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 86_1530 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 87_1890 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 88_7049 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 89_440 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |
| 90_4331 | DFM | LSI | AGT | IVAF | KYG | PLMTLVITATVPIAMFIMRALSQMLEKAVRTQKEKQAVATKLSA |

| | 310 | 320 | 330 | 340 | 350 | 360 |
|----------|---------------------------|--------------------------|----------------|-----|-----|-----|
| 1_1896 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 2_4785 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 3_3653 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 4_8157 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 5_752 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 6_8853 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 7_4015 | ALLQSTIASLPPQGLDTLVGPGGQ | SLSGGQRQRVALARARLRDTPVL | ILDEVTSGLDPKSK | | | |
| 8_2020 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 9_1829 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 10_6452 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 11_8627 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 12_6118 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 13_2688 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 14_6406 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 15_9419 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 16_8507 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 17_5884 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 18_2670 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 19_5172 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 20_8057 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 21_4920 | SPRHRHREQGRPNWQDAEVSKPRR | GSIDLIQARGLSALANRSPVKRPL | PQGGRIQGVLR | | | |
| 22_6393 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 23_8263 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 24_8248 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 25_6733 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 26_2277 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 27_2623 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 28_7413 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 29_8980 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 30_8706 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 31_6378 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 32_4679 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 33_2437 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 34_9700 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 35_10218 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 36_2652 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 37_5779 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 38_654 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 39_4879 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 40_8113 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 41_1767 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 42_8428 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 43_9819 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 44_5569 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 45_4189 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 46_1027 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 47_5048 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 48_10124 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 49_7151 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 50_3695 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 51_364 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 52_242 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 53_5225 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 54_1635 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 55_5766 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 56_1557 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 57_10137 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 58_10525 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 59_3457 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 60_8244 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 61_7964 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 62_4413 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 63_6958 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 64_5997 | PFRDHDKGVEVREIREAIGKGTGAG | KRGVTKRQARRGKKDGPDEEATNT | TGHMPAYQ | | | |
| 65_8711 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 66_9925 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 67_10374 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 68_3713 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 69_4511 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 70_6201 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 71_3261 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 72_8516 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 73_9295 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 74_809 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 75_7282 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 76_4910 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 77_10912 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 78_4020 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 79_6703 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 80_8619 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 81_4126 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 82_1363 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 83_5813 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 84_2044 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 85_7617 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 86_1530 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 87_1890 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 88_7049 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 89_440 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |
| 90_4331 | AAITGIDLVKKVYNSHEHELHNFR | LAAREAGKHARVQTMWNALQAAFI | KIYMAVVFLSGFF | | | |

| | 370 | 380 | 390 | 400 | 410 | 420 |
|----------|---|-----|-----|-----|-----|-----|
| 1_1896 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 2_4785 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 3_3653 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 4_8157 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 5_752 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 6_8853 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 7_4015 | LMIMDAIRYWRSGRTTIVITHDISQVGDDDYVYVMDKAEVREEGLCKQLQSNRDGYFLQL | | | | | |
| 8_2020 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 9_1829 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 10_6452 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 11_8627 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 12_6118 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 13_2688 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 14_6406 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 15_9419 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 16_8507 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 17_5884 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 18_2670 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 19_5172 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 20_8057 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 21_4920 | RLSTRSSPIEDVEMSPFRDHDKGKVEVVERERIEAIGKGTGAGKRGVTKRQARRGKKDGP | | | | | |
| 22_6393 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 23_8263 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 24_8248 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 25_6733 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 26_2277 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 27_2623 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 28_7413 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 29_8980 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 30_8706 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 31_6378 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 32_4679 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 33_2437 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 34_9700 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 35_10218 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 36_2652 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 37_5779 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 38_654 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 39_4879 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 40_8113 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 41_1767 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 42_8428 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 43_9819 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 44_5569 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 45_4189 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 46_1027 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 47_5048 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 48_10124 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 49_7151 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 50_3695 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 51_364 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 52_242 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 53_5225 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 54_1635 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 55_5766 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 56_1557 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 57_10137 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 58_10525 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 59_3457 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 60_8244 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 61_7964 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 62_4413 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 63_6958 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 64_5997 | ILKTVWPAALDTKHRLYAAVALFWCIVAAGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI | | | | | |
| 65_8711 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 66_9925 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 67_10374 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 68_3713 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 69_4511 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 70_6201 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 71_3261 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 72_8516 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 73_9295 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 74_809 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 75_7282 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 76_4910 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 77_10912 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 78_4020 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 79_6703 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 80_8619 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 81_4126 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 82_1363 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 83_5813 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 84_2044 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 85_7617 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 86_1530 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 87_1890 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 88_7049 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 89_440 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |
| 90_4331 | FGIYQVDRGNMSAGDVITTFYAALSTFEGVQGLGPHILSLVRGMQASKALKSVVSDRVVE | | | | | |

| | 430 | 440 | 450 | 460 | 470 | 480 |
|----------|-------------|------------|--------|------------|----------------|------------------------------|
| 1_1896 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 2_4785 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 3_3653 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 4_8157 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 5_752 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 6_8853 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 7_4015 | RALAESG | ADSSSQD | GAMTP | DDDLSSLSSE | DEPDAD | MSGKSFYIPEPKTTSSSLGALGRMS |
| 8_2020 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 9_1829 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 10_6452 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 11_8627 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 12_6118 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 13_2688 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 14_6406 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 15_9419 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 16_8507 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 17_5884 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 18_2670 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 19_5172 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 20_8057 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 21_4920 | DEEATNTTG | HMPAYQIL | KTVW | PALD | TKHRLY | AVAALFWCIVAAGCSPVFAFVSNLLQAF |
| 22_6393 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 23_8263 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 24_8248 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 25_6733 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 26_2277 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 27_2623 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 28_7413 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 29_8980 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 30_8706 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 31_6378 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 32_4679 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 33_2437 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 34_9700 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 35_10218 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 36_2652 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 37_5779 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 38_654 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 39_4879 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 40_8113 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 41_1767 | MGGGRKPRVFE | GRIEVKSVL | KPTSM | TFKPGKMTF | LVGRSGSGKSTITN | LLVKFYEP |
| 42_8428 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 43_9819 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 44_5569 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 45_4189 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 46_1027 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 47_5048 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 48_10124 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 49_7151 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 50_3695 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 51_364 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 52_242 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 53_5225 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 54_1635 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 55_5766 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 56_1557 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 57_10137 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 58_10525 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 59_3457 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 60_8244 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 61_7964 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 62_4413 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 63_6958 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 64_5997 | VLGCVGILD | TAVF | FTFLAG | AVAEWVD | TLKVD | AFSILCQPRAWHDRSKNSAARVCDV |
| 65_8711 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 66_9925 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 67_10374 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 68_3713 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 69_4511 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 70_6201 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 71_3261 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 72_8516 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 73_9295 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 74_809 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 75_7282 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 76_4910 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 77_10912 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 78_4020 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 79_6703 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 80_8619 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 81_4126 | MGGGRKPRVFE | GRIEVKSVL | KPTSM | TFKPGKMTF | LVGRSGSGKSTITN | LLVKFYEP |
| 82_1363 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 83_5813 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 84_2044 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 85_7617 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 86_1530 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 87_1890 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 88_7049 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 89_440 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |
| 90_4331 | MGGGRKPRVFE | GRIEVKSVSF | AYPSNP | AVQVLKPTS | MTFKPGKMTF | LVGRSGSGKSTITN |

| | 490 | 500 | 510 | 520 | 530 | 540 |
|----------|----------|---------|--------|--------|----------|--------------|
| 1_1896 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 2_4785 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 3_3653 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 4_8157 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 5_752 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 6_8853 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 7_4015 | FVPIPG | TNAAIY | PTPNQ | PGSDAY | LQLHQSP | RHRHREQVRPNY |
| 8_2020 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 9_1829 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 10_6452 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 11_8627 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 12_6118 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 13_2688 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 14_6406 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 15_9419 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 16_8507 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 17_5884 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 18_2670 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 19_5172 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 20_8057 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 21_4920 | WAQGS | KLEAG | TKWAI | VLGCV | GILDFT | AVFFTFFLAG |
| 22_6393 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 23_8263 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 24_8248 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 25_6733 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 26_2277 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 27_2623 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 28_7413 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 29_8980 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 30_8706 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 31_6378 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 32_4679 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 33_2437 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 34_9700 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 35_10218 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 36_2652 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 37_5779 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 38_654 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 39_4879 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 40_8113 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 41_1767 | ILLDEH | PLQTL | NSEW | VRKNVT | LVQQQSTL | FSDTLYANI |
| 42_8428 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 43_9819 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 44_5569 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 45_4189 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 46_1027 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 47_5048 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 48_10124 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 49_7151 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 50_3695 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 51_364 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 52_242 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 53_5225 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 54_1635 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 55_5766 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 56_1557 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 57_10137 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 58_10525 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 59_3457 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 60_8244 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 61_7964 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 62_4413 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 63_6958 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 64_5997 | LDRGA | DEMRT | IVAQ | FTPIA | LIVVIM | VSSAIVWAM |
| 65_8711 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 66_9925 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 67_10374 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 68_3713 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 69_4511 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 70_6201 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 71_3261 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 72_8516 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 73_9295 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 74_809 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 75_7282 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 76_4910 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 77_10912 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 78_4020 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 79_6703 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 80_8619 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 81_4126 | ILLDEH | PLQTL | NSEW | VRKNVT | LVQQQSTL | FSDTLYANI |
| 82_1363 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 83_5813 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 84_2044 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 85_7617 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 86_1530 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 87_1890 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 88_7049 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 89_440 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |
| 90_4331 | LLVKFYEP | LSGEILL | DEHPLQ | TLNSEW | VRKNVT | LVQQQSTLFS |

| | 550 | 560 | 570 | 580 | 590 | 600 |
|----------|------------------|---------------|-------------|---------------|---------------|--------------|
| 1_1896 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 2_4785 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 3_3653 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 4_8157 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 5_752 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 6_8853 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 7_4015 | ARGLSALANRSPAKRS | VPPQSGIGDVLRL | STRSSPIED | VEMSPVRENKK | GKGVKGVMRKKM | |
| 8_2020 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 9_1829 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 10_6452 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 11_8627 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 12_6118 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 13_2688 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 14_6406 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 15_9419 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 16_8507 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 17_5884 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 18_2670 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 19_5172 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 20_8057 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 21_4920 | WHDRSKNSAARVCD | VLDRGADEMRTI | VAGFTPI | ALIVVIMVSSAI | VWAMVILWQL | TLVAL |
| 22_6393 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 23_8263 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 24_8248 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 25_6733 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 26_2277 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 27_2623 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 28_7413 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 29_8980 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 30_8706 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 31_6378 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 32_4679 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 33_2437 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 34_9700 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 35_10218 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 36_2652 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 37_5779 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 38_654 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 39_4879 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 40_8113 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 41_1767 | STIAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT | SGLDPKSKLMIM |
| 42_8428 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 43_9819 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 44_5569 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 45_4189 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 46_1027 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 47_5048 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 48_10124 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 49_7151 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 50_3695 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 51_364 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 52_242 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 53_5225 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 54_1635 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 55_5766 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 56_1557 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 57_10137 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 58_10525 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 59_3457 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 60_8244 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 61_7964 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 62_4413 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 63_6958 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 64_5997 | TSEKWEALSNESEAT | TGILSSVVSDIR | VVRAFLLEKFF | GDRFEAAAERAFT | IGKKRG | LY |
| 65_8711 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 66_9925 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 67_10374 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 68_3713 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 69_4511 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 70_6201 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 71_3261 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 72_8516 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 73_9295 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 74_809 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 75_7282 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 76_4910 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 77_10912 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 78_4020 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 79_6703 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 80_8619 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 81_4126 | STIAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT | SGLDPKSKLMIM |
| 82_1363 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 83_5813 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 84_2044 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 85_7617 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 86_1530 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 87_1890 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 88_7049 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 89_440 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |
| 90_4331 | KVKAACEMALLQSTI | IAGLPQGLD | TLVGP | GGQSLSGGQ | RQRVALARARLRD | TPVILDEVT |

| | 610 | 620 | 630 | 640 | 650 | 660 |
|----------|----------------------|---------------------|--------------------|------------|---------------|-----|
| 1_1896 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 2_4785 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 3_3653 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 4_8157 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 5_752 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 6_8853 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 7_4015 | KNVMGKGARGGKRGMKDGT | NEEAKEETTSTTEQMSTY | QILKTVWPALDAKHRIYA | VVALF | | |
| 8_2020 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 9_1829 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 10_6452 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 11_8627 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 12_6118 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 13_2688 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 14_6406 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 15_9419 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 16_8507 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 17_5884 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 18_2670 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 19_5172 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 20_8057 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 21_4920 | AVFPFVGLCVFFSTRTSEK | WEALSNESAEATGGILSS | VVSDIRVRAFLLEKFFG | DRFEA | | |
| 22_6393 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 23_8263 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 24_8248 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 25_6733 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 26_2277 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 27_2623 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 28_7413 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 29_8980 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 30_8706 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 31_6378 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 32_4679 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 33_2437 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 34_9700 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 35_10218 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 36_2652 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 37_5779 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 38_654 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 39_4879 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 40_8113 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 41_1767 | DAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | SRDGYFLQLRALA | |
| 42_8428 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 43_9819 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 44_5569 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 45_4189 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 46_1027 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 47_5048 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 48_10124 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 49_7151 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 50_3695 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 51_364 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 52_242 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 53_5225 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 54_1635 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 55_5766 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 56_1557 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 57_10137 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 58_10525 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 59_3457 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 60_8244 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 61_7964 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 62_4413 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 63_6958 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 64_5997 | TGIWGGIHCSI | SQLVVVIFTFGVFLTTAES | VNVGDI IQVGNLLMFT | VGSA | TMMMSNIP | |
| 65_8711 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 66_9925 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 67_10374 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 68_3713 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 69_4511 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 70_6201 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 71_3261 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 72_8516 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 73_9295 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 74_809 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 75_7282 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 76_4910 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 77_10912 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 78_4020 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 79_6703 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 80_8619 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 81_4126 | DAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | SRDGYFLQLRALA | |
| 82_1363 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 83_5813 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 84_2044 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 85_7617 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 86_1530 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 87_1890 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 88_7049 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 89_440 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |
| 90_4331 | SGLDPKSKLMIMDAIRYWRS | GRTTIVITHDVSQVGDD | YVYVMDKAEVRE | EGLCKQLLSS | | |

| | 670 | 680 | 690 | 700 | 710 | 720 |
|----------|---------------------|------------------|--------------|--------|------------|----------------|
| 1_1896 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 2_4785 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 3_3653 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 4_8157 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 5_752 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 6_8853 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 7_4015 | WCIVAAGCSPVFAFVFSN | LLQAFWAQGS | KLEAGTKWAIVL | GCVGIL | DFTAVFFT | FSLAGA |
| 8_2020 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 9_1829 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 10_6452 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 11_8627 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 12_6118 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 13_2688 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 14_6406 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 15_9419 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 16_8507 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 17_5884 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 18_2670 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 19_5172 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 20_8057 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 21_4920 | AAERAF | TIGKKRGLYTGIWGGI | HCSISQWL | VVVIFT | PGVFL | LLTTAESVNVGDI |
| 22_6393 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 23_8263 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 24_8248 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 25_6733 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 26_2277 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 27_2623 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 28_7413 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 29_8980 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 30_8706 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 31_6378 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 32_4679 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 33_2437 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 34_9700 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 35_10218 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 36_2652 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 37_5779 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 38_654 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 39_4879 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 40_8113 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 41_1767 | ESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 42_8428 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 43_9819 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 44_5569 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 45_4189 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 46_1027 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 47_5048 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 48_10124 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 49_7151 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 50_3695 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 51_364 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 52_242 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 53_5225 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 54_1635 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 55_5766 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 56_1557 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 57_10137 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 58_10525 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 59_3457 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 60_8244 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 61_7964 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 62_4413 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 63_6958 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 64_5997 | QIAAAQAKAAQMLHLAK | MPRDHPDQ | QELGKKRL | LTPL | TVFNKLR | FAYPGRDQVLRNVS |
| 65_8711 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 66_9925 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 67_10374 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 68_3713 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 69_4511 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 70_6201 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 71_3261 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 72_8516 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 73_9295 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 74_809 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 75_7282 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 76_4910 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 77_10912 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 78_4020 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 79_6703 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 80_8619 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 81_4126 | ESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 82_1363 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 83_5813 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 84_2044 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 85_7617 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 86_1530 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 87_1890 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 88_7049 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 89_440 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |
| 90_4331 | RDGYFLQLRALAESGADSN | NGPEGVMT | PEDDLSSLSSSE | DEL | DVMSGKSFYI | PEPKTTSS |

| | 730 | 740 | 750 | 760 | 770 | 780 |
|----------|-----|-----|-----|-----|-----|-----|
| 1_1896 | F | G | A | L | G | R |
| 2_4785 | F | G | A | L | G | R |
| 3_3653 | F | G | A | L | G | R |
| 4_8157 | F | G | A | L | G | R |
| 5_752 | F | G | A | L | G | R |
| 6_8853 | F | G | A | L | G | R |
| 7_4015 | V | A | Q | E | W | V |
| 8_2020 | F | G | A | L | G | R |
| 9_1829 | F | G | A | L | G | R |
| 10_6452 | F | G | A | L | G | R |
| 11_8627 | F | G | A | L | G | R |
| 12_6118 | F | G | A | L | G | R |
| 13_2688 | F | G | A | L | G | R |
| 14_6406 | F | G | A | L | G | R |
| 15_9419 | F | G | A | L | G | R |
| 16_8507 | F | G | A | L | G | R |
| 17_5884 | F | G | A | L | G | R |
| 18_2670 | F | G | A | L | G | R |
| 19_5172 | F | G | A | L | G | R |
| 20_8057 | F | G | A | L | G | R |
| 21_4920 | M | F | T | V | G | S |
| 22_6393 | F | G | A | L | G | R |
| 23_8263 | F | G | A | L | G | R |
| 24_8248 | F | G | A | L | G | R |
| 25_6733 | F | G | A | L | G | R |
| 26_2277 | F | G | A | L | G | R |
| 27_2623 | F | G | A | L | G | R |
| 28_7413 | F | G | A | L | G | R |
| 29_8980 | F | G | A | L | G | R |
| 30_8706 | F | G | A | L | G | R |
| 31_6378 | F | G | A | L | G | R |
| 32_4679 | F | G | A | L | G | R |
| 33_2437 | F | G | A | L | G | R |
| 34_9700 | F | G | A | L | G | R |
| 35_10218 | F | G | A | L | G | R |
| 36_2652 | F | G | A | L | G | R |
| 37_5779 | F | G | A | L | G | R |
| 38_654 | F | G | A | L | G | R |
| 39_4879 | F | G | A | L | G | R |
| 40_8113 | F | G | A | L | G | R |
| 41_1767 | P | G | T | N | G | P |
| 42_8428 | F | G | A | L | G | R |
| 43_9819 | F | G | A | L | G | R |
| 44_5569 | F | G | A | L | G | R |
| 45_4189 | F | G | A | L | G | R |
| 46_1027 | F | G | A | L | G | R |
| 47_5048 | F | G | A | L | G | R |
| 48_10124 | F | G | A | L | G | R |
| 49_7151 | F | G | A | L | G | R |
| 50_3695 | F | G | A | L | G | R |
| 51_364 | F | G | A | L | G | R |
| 52_242 | F | G | A | L | G | R |
| 53_5225 | F | G | A | L | G | R |
| 54_1635 | F | G | A | L | G | R |
| 55_5766 | F | G | A | L | G | R |
| 56_1557 | F | G | A | L | G | R |
| 57_10137 | F | G | A | L | G | R |
| 58_10525 | F | G | A | L | G | R |
| 59_3457 | F | G | A | L | G | R |
| 60_8244 | F | G | A | L | G | R |
| 61_7964 | F | G | A | L | G | R |
| 62_4413 | F | G | A | L | G | R |
| 63_6958 | F | G | A | L | G | R |
| 64_5997 | L | S | I | P | S | E |
| 65_8711 | F | G | A | L | G | R |
| 66_9925 | F | G | A | L | G | R |
| 67_10374 | F | G | A | L | G | R |
| 68_3713 | F | G | A | L | G | R |
| 69_4511 | F | G | A | L | G | R |
| 70_6201 | F | G | A | L | G | R |
| 71_3261 | F | G | A | L | G | R |
| 72_8516 | F | G | A | L | G | R |
| 73_9295 | F | G | A | L | G | R |
| 74_809 | F | G | A | L | G | R |
| 75_7282 | F | G | A | L | G | R |
| 76_4910 | F | G | A | L | G | R |
| 77_10912 | F | G | A | L | G | R |
| 78_4020 | F | G | A | L | G | R |
| 79_6703 | F | G | A | L | G | R |
| 80_8619 | F | G | A | L | G | R |
| 81_4126 | P | G | T | N | G | P |
| 82_1363 | F | G | A | L | G | R |
| 83_5813 | F | G | A | L | G | R |
| 84_2044 | F | G | A | L | G | R |
| 85_7617 | F | G | A | L | G | R |
| 86_1530 | F | G | A | L | G | R |
| 87_1890 | F | G | A | L | G | R |
| 88_7049 | F | G | A | L | G | R |
| 89_440 | F | G | A | L | G | R |
| 90_4331 | F | G | A | L | G | R |

| | 790 | 800 | 810 | 820 | 830 | 840 |
|----------|-----|-----|-----|-----|-----|-----|
| 1_1896 | R | G | S | I | D | L |
| 2_4785 | I | Q | A | R | G | L |
| 3_3653 | S | A | L | A | N | R |
| 4_8157 | S | P | V | K | R | P |
| 5_752 | L | P | Q | G | G | R |
| 6_8853 | I | G | G | V | L | R |
| 7_4015 | R | S | S | P | I | E |
| 8_2020 | D | V | E | M | S | P |
| 9_1829 | F | R | D | H | D | K |
| 10_6452 | G | V | | | | |
| 11_8627 | | | | | | |
| 12_6118 | | | | | | |
| 13_2688 | | | | | | |
| 14_6406 | | | | | | |
| 15_9419 | | | | | | |
| 16_8507 | | | | | | |
| 17_5884 | | | | | | |
| 18_2670 | | | | | | |
| 19_5172 | | | | | | |
| 20_8057 | | | | | | |
| 21_4920 | | | | | | |
| 22_6393 | | | | | | |
| 23_8263 | | | | | | |
| 24_8248 | | | | | | |
| 25_6733 | | | | | | |
| 26_2277 | | | | | | |
| 27_2623 | | | | | | |
| 28_7413 | | | | | | |
| 29_8980 | | | | | | |
| 30_8706 | | | | | | |
| 31_6378 | | | | | | |
| 32_4679 | | | | | | |
| 33_2437 | | | | | | |
| 34_9700 | | | | | | |
| 35_10218 | | | | | | |
| 36_2652 | | | | | | |
| 37_5779 | | | | | | |
| 38_654 | | | | | | |
| 39_4879 | | | | | | |
| 40_8113 | | | | | | |
| 41_1767 | | | | | | |
| 42_8428 | | | | | | |
| 43_9819 | | | | | | |
| 44_5569 | | | | | | |
| 45_4189 | | | | | | |
| 46_1027 | | | | | | |
| 47_5048 | | | | | | |
| 48_10124 | | | | | | |
| 49_7151 | | | | | | |
| 50_3695 | | | | | | |
| 51_364 | | | | | | |
| 52_242 | | | | | | |
| 53_5225 | | | | | | |
| 54_1635 | | | | | | |
| 55_5766 | | | | | | |
| 56_1557 | | | | | | |
| 57_10137 | | | | | | |
| 58_10525 | | | | | | |
| 59_3457 | | | | | | |
| 60_8244 | | | | | | |
| 61_7964 | | | | | | |
| 62_4413 | | | | | | |
| 63_6958 | | | | | | |
| 64_5997 | | | | | | |
| 65_8711 | | | | | | |
| 66_9925 | | | | | | |
| 67_10374 | | | | | | |
| 68_3713 | | | | | | |
| 69_4511 | | | | | | |
| 70_6201 | | | | | | |
| 71_3261 | | | | | | |
| 72_8516 | | | | | | |
| 73_9295 | | | | | | |
| 74_809 | | | | | | |
| 75_7282 | | | | | | |
| 76_4910 | | | | | | |
| 77_10912 | | | | | | |
| 78_4020 | | | | | | |
| 79_6703 | | | | | | |
| 80_8619 | | | | | | |
| 81_4126 | | | | | | |
| 82_1363 | | | | | | |
| 83_5813 | | | | | | |
| 84_2044 | | | | | | |
| 85_7617 | | | | | | |
| 86_1530 | | | | | | |
| 87_1890 | | | | | | |
| 88_7049 | | | | | | |
| 89_440 | | | | | | |
| 90_4331 | | | | | | |

| | 850 | 860 | 870 | 880 | 890 | 900 |
|----------|----------|---------|---------|----------|------------------------|----------------------------------|
| 1_1896 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 2_4785 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 3_3653 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 4_8157 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 5_752 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 6_8853 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 7_4015 | VVSDIR | VVRAFL | LEKFFG | DRFEAA | VERAFT | TIGKKRGLYTGIIWSGIHCSISQWLVVVIFTF |
| 8_2020 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 9_1829 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 10_6452 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 11_8627 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 12_6118 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 13_2688 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 14_6406 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 15_9419 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 16_8507 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 17_5884 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 18_2670 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 19_5172 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 20_8057 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 21_4920 | PKASR | KGNFEV | ISPVVSY | PLGPVASS | PLPSLVYS | SPPGGTRASSHRRSGELGALTYAGFD |
| 22_6393 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 23_8263 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 24_8248 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 25_6733 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 26_2277 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 27_2623 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 28_7413 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 29_8980 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 30_8706 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 31_6378 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 32_4679 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 33_2437 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 34_9700 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 35_10218 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 36_2652 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 37_5779 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 38_654 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 39_4879 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 40_8113 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 41_1767 | GKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL | LDTKHRLYAVAAL |
| 42_8428 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 43_9819 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 44_5569 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 45_4189 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 46_1027 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 47_5048 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 48_10124 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 49_7151 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 50_3695 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 51_364 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 52_242 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 53_5225 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 54_1635 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 55_5766 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 56_1557 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 57_10137 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 58_10525 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 59_3457 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 60_8244 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 61_7964 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 62_4413 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 63_6958 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 64_5997 | VPQQPF | IFPGTIR | ENIVYGL | PEDES | VLRGQHN | VELAAREADIHEFIISLPQGYETLVGDG |
| 65_8711 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 66_9925 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 67_10374 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 68_3713 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 69_4511 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 70_6201 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 71_3261 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 72_8516 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 73_9295 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 74_809 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 75_7282 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 76_4910 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 77_10912 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 78_4020 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 79_6703 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 80_8619 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 81_4126 | GKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL | LDTKHRLYAVAAL |
| 82_1363 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 83_5813 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 84_2044 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 85_7617 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 86_1530 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 87_1890 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 88_7049 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 89_440 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |
| 90_4331 | KEVVREIR | EAIGKGT | GAGKRGV | TKRQARR | GKKDGPDE | EATNTTGHMPAYQILKTVWPAL |

| | 910 | 920 | 930 | 940 | 950 | 960 |
|----------|------|-------|-----------------------------------|------|-------|---|
| 1_1896 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 2_4785 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 3_3653 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 4_8157 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 5_752 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 6_8853 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 7_4015 | GVF | LLT | TVET | VNV | GDII | QVNVLLMFTVGSATMMMSNIPQIAAAQAKATQMLHLAQMPRGH |
| 8_2020 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 9_1829 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 10_6452 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 11_8627 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 12_6118 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 13_2688 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 14_6406 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 15_9419 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 16_8507 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 17_5884 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 18_2670 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 19_5172 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 20_8057 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 21_4920 | ARE | ISTK | ALRGM | MAY | VPQQP | FIFPGTIRENIVYGLPEDESVLRGQHNVLEAAREADIEHF |
| 22_6393 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 23_8263 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 24_8248 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 25_6733 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 26_2277 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 27_2623 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 28_7413 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 29_8980 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 30_8706 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 31_6378 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 32_4679 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 33_2437 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 34_9700 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 35_10218 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 36_2652 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 37_5779 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 38_654 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 39_4879 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 40_8113 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 41_1767 | FWC | IVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI | VLG | CVGIL | DFTAVFFTFFFLAG |
| 42_8428 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 43_9819 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 44_5569 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 45_4189 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 46_1027 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 47_5048 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 48_10124 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 49_7151 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 50_3695 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 51_364 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 52_242 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 53_5225 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 54_1635 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 55_5766 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 56_1557 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 57_10137 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 58_10525 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 59_3457 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 60_8244 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 61_7964 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 62_4413 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 63_6958 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 64_5997 | GVAL | SGGQA | QRLCI | ARAL | ARRPK | LLVLDEPT |
| 65_8711 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 66_9925 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 67_10374 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 68_3713 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 69_4511 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 70_6201 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 71_3261 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 72_8516 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 73_9295 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 74_809 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 75_7282 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 76_4910 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 77_10912 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 78_4020 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 79_6703 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 80_8619 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 81_4126 | FWC | IVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI | VLG | CVGIL | DFTAVFFTFFFLAG |
| 82_1363 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 83_5813 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 84_2044 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 85_7617 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 86_1530 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 87_1890 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 88_7049 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 89_440 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |
| 90_4331 | DTK | HRL | YAVA | ALFW | CIVA | AGCSPVFAFVFSNLLQAFWAQGSKLEAGTKWAI |

| | 970 | 980 | 990 | 1000 | 1010 | 1020 |
|----------|------------------|-------------|-----------|--------------|--------------|---------------------|
| 1_1896 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 2_4785 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 3_3653 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 4_8157 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 5_752 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 6_8853 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 7_4015 | SEQQELGKKRILAPFP | PIVFNKLR | FAYPGRDQ | QVLRNVSL | SIPSEGCTA | IVGGSGCGKSTI |
| 8_2020 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 9_1829 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 10_6452 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 11_8627 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 12_6118 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 13_2688 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 14_6406 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 15_9419 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 16_8507 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 17_5884 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 18_2670 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 19_5172 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 20_8057 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 21_4920 | IISLPQGYETLVGDG | VALSGGQAQR | LCIARALAR | RPKLLVLDE | PTSALDAES | GQSVMDT |
| 22_6393 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 23_8263 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 24_8248 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 25_6733 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 26_2277 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 27_2623 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 28_7413 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 29_8980 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 30_8706 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 31_6378 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 32_4679 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 33_2437 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 34_9700 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 35_10218 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 36_2652 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 37_5779 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 38_654 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 39_4879 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 40_8113 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 41_1767 | AVAQEW | VDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD | RGADEMRTIVAQFTPIALI |
| 42_8428 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 43_9819 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 44_5569 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 45_4189 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 46_1027 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 47_5048 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 48_10124 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 49_7151 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 50_3695 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 51_364 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 52_242 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 53_5225 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 54_1635 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 55_5766 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 56_1557 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 57_10137 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 58_10525 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 59_3457 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 60_8244 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 61_7964 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 62_4413 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 63_6958 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 64_5997 | AASPLLRKAGGTLS | PYPSPQHDP | YNWEGNFR | KSEGRSFSY | VHGAAGTQ | HRQPAVVVIT |
| 65_8711 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 66_9925 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 67_10374 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 68_3713 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 69_4511 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 70_6201 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 71_3261 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 72_8516 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 73_9295 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 74_809 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 75_7282 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 76_4910 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 77_10912 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 78_4020 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 79_6703 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 80_8619 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 81_4126 | AVAQEW | VDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD | RGADEMRTIVAQFTPIALI |
| 82_1363 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 83_5813 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 84_2044 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 85_7617 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 86_1530 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 87_1890 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 88_7049 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 89_440 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |
| 90_4331 | FTAVF | FTFFLAGAVAQ | EWVDTLKVD | AFSSILCQ | PRAWHDRSKNSA | ARVCDVLD |

| | 1030 | 1040 | 1050 | 1060 | 1070 | 1080 |
|----------|--------------------------------|-------------------------------|------------------|-------|----------|------|
| 1_1896 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 2_4785 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 3_3653 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 4_8157 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 5_752 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 6_8853 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 7_4015 | AALILGLYEPLCDDDRSPVGGASPKAFRKG | NFEVASPVSYPLGPVASSPLPSLVYSLPQ | G | | | |
| 8_2020 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 9_1829 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 10_6452 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 11_8627 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 12_6118 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 13_2688 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 14_6406 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 15_9419 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 16_8507 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 17_5884 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 18_2670 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 19_5172 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 20_8057 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 21_4920 | LRTLVCRRDGLSTAAASP | LLRKAGGTLSPYSPQHDPDPYNWEGN | FFRKSEGRSFSYVHGA | | | |
| 22_6393 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 23_8263 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 24_8248 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 25_6733 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 26_2277 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 27_2623 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 28_7413 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 29_8980 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 30_8706 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 31_6378 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 32_4679 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 33_2437 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 34_9700 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 35_10218 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 36_2652 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 37_5779 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 38_654 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 39_4879 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 40_8113 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 41_1767 | VVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | SNESA | EATGGILS | |
| 42_8428 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 43_9819 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 44_5569 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 45_4189 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 46_1027 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 47_5048 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 48_10124 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 49_7151 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 50_3695 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 51_364 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 52_242 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 53_5225 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 54_1635 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 55_5766 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 56_1557 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 57_10137 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 58_10525 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 59_3457 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 60_8244 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 61_7964 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 62_4413 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 63_6958 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 64_5997 | HSREMMKMADRLLVVIDNGCVAETGTYEYL | MAAGDSRLAELLDDGGYRAPAAKSSG | VPMENT | | | |
| 65_8711 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 66_9925 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 67_10374 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 68_3713 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 69_4511 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 70_6201 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 71_3261 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 72_8516 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 73_9295 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 74_809 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 75_7282 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 76_4910 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 77_10912 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 78_4020 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 79_6703 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 80_8619 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 81_4126 | VVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | SNESA | EATGGILS | |
| 82_1363 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 83_5813 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 84_2044 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 85_7617 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 86_1530 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 87_1890 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 88_7049 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 89_440 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |
| 90_4331 | TIVAQFTPIALIVVIMVSSAIVWAMVILWQ | TLVALAVFPFVGLCVFFS | TRTSEKWEALS | | | |

| | 1090 | 1100 | 1110 | 1120 | 1130 | 1140 |
|----------|------------------|-------------|------------|------------|------------|-------------|
| 1_1896 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 2_4785 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 3_3653 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 4_8157 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 5_752 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 6_8853 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 7_4015 | VMRAGSYRRSGELG | ALTAYAGFDS | REISTKALRS | MMAYVVPQHP | FLFPGTIQGN | IAYGLPED |
| 8_2020 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 9_1829 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 10_6452 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 11_8627 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 12_6118 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 13_2688 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 14_6406 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 15_9419 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 16_8507 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 17_5884 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 18_2670 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 19_5172 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 20_8057 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 21_4920 | AAGTQHRQPAVVV | ITHSREMMKMA | ADRLVVIDN | GCVAETGT | YEYLLMAAGD | SRLEALLDGGY |
| 22_6393 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 23_8263 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 24_8248 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 25_6733 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 26_2277 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 27_2623 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 28_7413 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 29_8980 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 30_8706 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 31_6378 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 32_4679 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 33_2437 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 34_9700 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 35_10218 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 36_2652 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 37_5779 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 38_654 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 39_4879 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 40_8113 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 41_1767 | SVVSDIRVVR | AFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 42_8428 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 43_9819 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 44_5569 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 45_4189 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 46_1027 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 47_5048 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 48_10124 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 49_7151 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 50_3695 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 51_364 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 52_242 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 53_5225 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 54_1635 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 55_5766 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 56_1557 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 57_10137 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 58_10525 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 59_3457 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 60_8244 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 61_7964 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 62_4413 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 63_6958 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 64_5997 | TSLEPVVSPRTL | TRVVSPSP | EQYRRNNR | SSPGGIPQ | RQRP | GMNMDMFLPQ |
| 65_8711 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 66_9925 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 67_10374 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 68_3713 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 69_4511 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 70_6201 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 71_3261 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 72_8516 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 73_9295 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 74_809 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 75_7282 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 76_4910 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 77_10912 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 78_4020 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 79_6703 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 80_8619 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 81_4126 | SVVSDIRVVR | AFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 82_1363 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 83_5813 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 84_2044 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 85_7617 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 86_1530 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 87_1890 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 88_7049 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 89_440 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |
| 90_4331 | NESAEATGGILSSVVS | DIRVRAFLL | LEKFFGDRFE | AAAAERAFT | IGKKRGLY | TGIWGGIHC |

| | 1150 | 1160 | 1170 | 1180 | 1190 | 1200 |
|----------|--------|--------|-------|----------|----------|------------------------------------|
| 1_1896 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 2_4785 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 3_3653 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 4_8157 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 5_752 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 6_8853 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 7_4015 | EIVLRG | QHNI | ELAA | READI | HEFI | ISLPQGYETLV |
| 8_2020 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 9_1829 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 10_6452 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 11_8627 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 12_6118 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 13_2688 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 14_6406 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 15_9419 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 16_8507 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 17_5884 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 18_2670 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 19_5172 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 20_8057 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 21_4920 | RAPAAK | SSGVP | MEKTT | SLEP | VPVSP | RTLTRVVSP |
| 22_6393 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 23_8263 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 24_8248 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 25_6733 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 26_2277 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 27_2623 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 28_7413 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 29_8980 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 30_8706 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 31_6378 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 32_4679 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 33_2437 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 34_9700 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 35_10218 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 36_2652 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 37_5779 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 38_654 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 39_4879 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 40_8113 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 41_1767 | FGVFL | LT | TAESV | NVGDIIQV | VNLLMFTV | GSATMMMSNIPQIAAAQAKAAQAQMLHLAKMPRD |
| 42_8428 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 43_9819 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 44_5569 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 45_4189 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 46_1027 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 47_5048 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 48_10124 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 49_7151 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 50_3695 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 51_364 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 52_242 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 53_5225 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 54_1635 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 55_5766 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 56_1557 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 57_10137 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 58_10525 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 59_3457 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 60_8244 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 61_7964 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 62_4413 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 63_6958 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 64_5997 | RS | | | | | |
| 65_8711 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 66_9925 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 67_10374 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 68_3713 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 69_4511 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 70_6201 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 71_3261 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 72_8516 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 73_9295 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 74_809 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 75_7282 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 76_4910 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 77_10912 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 78_4020 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 79_6703 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 80_8619 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 81_4126 | FGVFL | LT | TAESV | NVGDIIQV | VNLLMFTV | GSATMMMSNIPQIAAAQAKAAQAQMLHLAKMPRD |
| 82_1363 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 83_5813 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 84_2044 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 85_7617 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 86_1530 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 87_1890 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 88_7049 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 89_440 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |
| 90_4331 | SISQWL | VVVIFT | FGVFL | LT | TAESV | NVGDIIQV |

| | 1210 | 1220 | 1230 | 1240 | 1250 | 1260 |
|----------|-----------------|-----------------|------------|----------------|----------|-------------------|
| 1_1896 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 2_4785 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 3_3653 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 4_8157 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 5_752 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 6_8853 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 7_4015 | LLVDEPT | SALDAESGOSVMDTL | RLTLV | CCRRDGGLSAAAS | PLLRRGDG | TLSPYSPQHDPDY |
| 8_2020 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 9_1829 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 10_6452 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 11_8627 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 12_6118 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 13_2688 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 14_6406 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 15_9419 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 16_8507 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 17_5884 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 18_2670 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 19_5172 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 20_8057 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 21_4920 | MEDMFLP | QVAVQEDDRS | ..... | ..... | ..... | ..... |
| 22_6393 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 23_8263 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 24_8248 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 25_6733 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 26_2277 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 27_2623 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 28_7413 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 29_8980 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 30_8706 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 31_6378 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 32_4679 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 33_2437 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 34_9700 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 35_10218 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 36_2652 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 37_5779 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 38_654 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 39_4879 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 40_8113 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 41_1767 | HPDQQEL | GKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCTAIVGGSGCGKST |
| 42_8428 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 43_9819 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 44_5569 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 45_4189 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 46_1027 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 47_5048 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 48_10124 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 49_7151 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 50_3695 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 51_364 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 52_242 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 53_5225 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 54_1635 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 55_5766 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 56_1557 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 57_10137 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 58_10525 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 59_3457 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 60_8244 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 61_7964 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 62_4413 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 63_6958 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 64_5997 | ..... | ..... | ..... | ..... | ..... | ..... |
| 65_8711 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 66_9925 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 67_10374 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 68_3713 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 69_4511 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 70_6201 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 71_3261 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 72_8516 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 73_9295 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 74_809 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 75_7282 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 76_4910 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 77_10912 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 78_4020 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 79_6703 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 80_8619 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 81_4126 | HPDQQEL | GKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCTAIVGGSGCGKST |
| 82_1363 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 83_5813 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 84_2044 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 85_7617 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 86_1530 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 87_1890 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 88_7049 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 89_440 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |
| 90_4331 | AQMLHLAKMPRDHPD | QQELGKKRLLT | PLPTVFNKLR | FAYPGRDQQVLRNV | SLSP | SEGCT |

| | 1270 | 1280 | 1290 | 1300 | 1310 | 1320 |
|----------|-------|-------|-------|-------|-------|-------|
| 1_1896 | A | I | V | I | I | A |
| 2_4785 | I | V | I | I | I | A |
| 3_3653 | A | I | V | I | I | A |
| 4_8157 | A | I | V | I | I | A |
| 5_752 | A | I | V | I | I | A |
| 6_8853 | A | I | V | I | I | A |
| 7_4015 | N | W | E | G | N | F |
| 8_2020 | A | I | V | I | I | A |
| 9_1829 | A | I | V | I | I | A |
| 10_6452 | A | I | V | I | I | A |
| 11_8627 | A | I | V | I | I | A |
| 12_6118 | A | I | V | I | I | A |
| 13_2688 | A | I | V | I | I | A |
| 14_6406 | A | I | V | I | I | A |
| 15_9419 | A | I | V | I | I | A |
| 16_8507 | A | I | V | I | I | A |
| 17_5884 | A | I | V | I | I | A |
| 18_2670 | A | I | V | I | I | A |
| 19_5172 | A | I | V | I | I | A |
| 20_8057 | A | I | V | I | I | A |
| 21_4920 | ..... | ..... | ..... | ..... | ..... | ..... |
| 22_6393 | A | I | V | I | I | A |
| 23_8263 | A | I | V | I | I | A |
| 24_8248 | A | I | V | I | I | A |
| 25_6733 | A | I | V | I | I | A |
| 26_2277 | A | I | V | I | I | A |
| 27_2623 | A | I | V | I | I | A |
| 28_7413 | A | I | V | I | I | A |
| 29_8980 | A | I | V | I | I | A |
| 30_8706 | A | I | V | I | I | A |
| 31_6378 | A | I | V | I | I | A |
| 32_4679 | A | I | V | I | I | A |
| 33_2437 | A | I | V | I | I | A |
| 34_9700 | A | I | V | I | I | A |
| 35_10218 | A | I | V | I | I | A |
| 36_2652 | A | I | V | I | I | A |
| 37_5779 | A | I | V | I | I | A |
| 38_654 | A | I | V | I | I | A |
| 39_4879 | A | I | V | I | I | A |
| 40_8113 | A | I | V | I | I | A |
| 41_1767 | I | A | A | I | L | G |
| 42_8428 | A | I | V | I | I | A |
| 43_9819 | A | I | V | I | I | A |
| 44_5569 | A | I | V | I | I | A |
| 45_4189 | A | I | V | I | I | A |
| 46_1027 | A | I | V | I | I | A |
| 47_5048 | A | I | V | I | I | A |
| 48_10124 | A | I | V | I | I | A |
| 49_7151 | A | I | V | I | I | A |
| 50_3695 | A | I | V | I | I | A |
| 51_364 | A | I | V | I | I | A |
| 52_242 | A | I | V | I | I | A |
| 53_5225 | A | I | V | I | I | A |
| 54_1635 | A | I | V | I | I | A |
| 55_5766 | A | I | V | I | I | A |
| 56_1557 | A | I | V | I | I | A |
| 57_10137 | A | I | V | I | I | A |
| 58_10525 | A | I | V | I | I | A |
| 59_3457 | A | I | V | I | I | A |
| 60_8244 | A | I | V | I | I | A |
| 61_7964 | A | I | V | I | I | A |
| 62_4413 | A | I | V | I | I | A |
| 63_6958 | A | I | V | I | I | A |
| 64_5997 | ..... | ..... | ..... | ..... | ..... | ..... |
| 65_8711 | A | I | V | I | I | A |
| 66_9925 | A | I | V | I | I | A |
| 67_10374 | A | I | V | I | I | A |
| 68_3713 | A | I | V | I | I | A |
| 69_4511 | A | I | V | I | I | A |
| 70_6201 | A | I | V | I | I | A |
| 71_3261 | A | I | V | I | I | A |
| 72_8516 | A | I | V | I | I | A |
| 73_9295 | A | I | V | I | I | A |
| 74_809 | A | I | V | I | I | A |
| 75_7282 | A | I | V | I | I | A |
| 76_4910 | A | I | V | I | I | A |
| 77_10912 | A | I | V | I | I | A |
| 78_4020 | A | I | V | I | I | A |
| 79_6703 | A | I | V | I | I | A |
| 80_8619 | A | I | V | I | I | A |
| 81_4126 | I | A | A | I | L | G |
| 82_1363 | A | I | V | I | I | A |
| 83_583 | A | I | V | I | I | A |
| 84_2044 | A | I | V | I | I | A |
| 85_7617 | A | I | V | I | I | A |
| 86_1530 | A | I | V | I | I | A |
| 87_1890 | A | I | V | I | I | A |
| 88_7049 | A | I | V | I | I | A |
| 89_440 | A | I | V | I | I | A |
| 90_4331 | A | I | V | I | I | A |

| | 1330 | 1340 | 1350 | 1360 | 1370 | 1380 |
|----------|-------------|-------------|--------------|--------------|-------------|----------|
| 1_1896 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 2_4785 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 3_3653 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 4_8157 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 5_752 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 6_8853 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 7_4015 | TYEYIMAVGDS | RILAEILLDGA | YRSPAAKSSGV | PREKTTSL | EPVVPSPRTL | TRVVSFSP |
| 8_2020 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 9_1829 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 10_6452 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 11_8627 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 12_6118 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 13_2688 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 14_6406 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 15_9419 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 16_8507 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 17_5884 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 18_2670 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 19_5172 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 20_8057 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 21_4920 | ..... | ..... | ..... | ..... | ..... | ..... |
| 22_6393 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 23_8263 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 24_8248 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 25_6733 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 26_2277 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 27_2623 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 28_7413 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 29_8980 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 30_8706 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 31_6378 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 32_4679 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 33_2437 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 34_9700 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 35_10218 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 36_2652 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 37_5779 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 38_654 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 39_4879 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 40_8113 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 41_1767 | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFPGTIREN | IVYGLP |
| 42_8428 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 43_9819 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 44_5569 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 45_4189 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 46_1027 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 47_5048 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 48_10124 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 49_7151 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 50_3695 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 51_364 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 52_242 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 53_5225 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 54_1635 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 55_5766 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 56_1557 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 57_10137 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 58_10525 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 59_3457 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 60_8244 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 61_7964 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 62_4413 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 63_6958 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 64_5997 | ..... | ..... | ..... | ..... | ..... | ..... |
| 65_8711 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 66_9925 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 67_10374 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 68_3713 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 69_4511 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 70_6201 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 71_3261 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 72_8516 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 73_9295 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 74_809 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 75_7282 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 76_4910 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 77_10912 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 78_4020 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 79_6703 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 80_8619 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 81_4126 | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFPGTIREN | IVYGLP |
| 82_1363 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 83_5813 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 84_2044 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 85_7617 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 86_1530 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 87_1890 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 88_7049 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 89_440 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |
| 90_4331 | SSPLPSLVYSP | QGGTRASSHRR | SGELGALTYAG | FDAREISTKALR | GMMAYVPQQPF | IFFP |

| | 1390 | 1400 | 1410 | 1420 | 1430 | 1440 |
|----------|------------------|--------------------|------------|------------------------|-------|---------|
| 1_1896 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 2_4785 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 3_3653 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 4_8157 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 5_752 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 6_8853 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 7_4015 | RRNNHSSPGGIPQRQ | QRPGRNIEDMFLPQVDWQ | GD RR..... | | | |
| 8_2020 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 9_1829 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 10_6452 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 11_8627 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 12_6118 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 13_2688 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 14_6406 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 15_9419 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 16_8507 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 17_5884 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 18_2670 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 19_5172 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 20_8057 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 21_4920 | ..... |  |  |  |  |  |
| 22_6393 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 23_8263 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 24_8248 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 25_6733 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 26_2277 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 27_2623 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 28_7413 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 29_8980 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 30_8706 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 31_6378 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 32_4679 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 33_2437 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 34_9700 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 35_10218 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 36_2652 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 37_5779 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 38_654 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 39_4879 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 40_8113 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 41_1767 | EDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | QRLCI | ARALARR |
| 42_8428 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 43_9819 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 44_5569 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 45_4189 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 46_1027 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 47_5048 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 48_10124 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 49_7151 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 50_3695 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 51_364 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 52_242 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 53_5225 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 54_1635 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 55_5766 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 56_1557 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 57_10137 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 58_10525 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 59_3457 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 60_8244 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 61_7964 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 62_4413 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 63_6958 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 64_5997 | ..... |  |  |  |  |  |
| 65_8711 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 66_9925 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 67_10374 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 68_3713 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 69_4511 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 70_6201 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 71_3261 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 72_8516 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 73_9295 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 74_809 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 75_7282 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 76_4910 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 77_10912 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 78_4020 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 79_6703 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 80_8619 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 81_4126 | EDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | QRLCI | ARALARR |
| 82_1363 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 83_5813 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 84_2044 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 85_7617 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHELII | SLPQGYETLVGDGGVALSGGQA | | |
| 86_1530 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 87_1890 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 88_7049 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 89_440 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |
| 90_4331 | GTIRENIVYGLPEDES | SVLRGQHNVELAAREAD | IHEFII | SLPQGYETLVGDGGVALSGGQA | | |

| | 1450 | 1460 | 1470 | 1480 | 1490 | 1500 |
|----------|------------------------|--|------------|---------------------------|------|------|
| 1_1896 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 2_4785 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 3_3653 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 4_8157 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 5_752 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 6_8853 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 7_4015 | ..... |  |  |  |  |  |
| 8_2020 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 9_1829 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 10_6452 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 11_8627 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 12_6118 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 13_2688 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 14_6406 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 15_9419 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 16_8507 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 17_5884 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 18_2670 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 19_5172 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 20_8057 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 21_4920 | ..... |  |  |  |  |  |
| 22_6393 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 23_8263 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 24_8248 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 25_6733 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 26_2277 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 27_2623 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 28_7413 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 29_8980 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 30_8706 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 31_6378 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 32_4679 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 33_2437 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 34_9700 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 35_10218 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 36_2652 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 37_5779 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 38_654 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 39_4879 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 40_8113 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 41_1767 | PKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LXPGRRSQHRRRLPLAKKSGWYPQP | | |
| 42_8428 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 43_9819 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 44_5569 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 45_4189 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 46_1027 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 47_5048 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 48_10124 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 49_7151 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 50_3695 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 51_364 | QRLCIARALARRPKLLVLDEPT | SAXGHSEDPAGGTLSPYSPQHDPFYNWEGNFFRKSEGR | | | | |
| 52_242 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 53_5225 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 54_1635 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 55_5766 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 56_1557 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 57_10137 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 58_10525 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 59_3457 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 60_8244 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 61_7964 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 62_4413 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 63_6958 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 64_5997 | ..... |  |  |  |  |  |
| 65_8711 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 66_9925 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 67_10374 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 68_3713 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 69_4511 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 70_6201 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 71_3261 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 72_8516 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 73_9295 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 74_809 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 75_7282 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 76_4910 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 77_10912 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 78_4020 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 79_6703 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 80_8619 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 81_4126 | PKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKAGGTLSPYSPQHP | | |
| 82_1363 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 83_5813 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 84_2044 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 85_7617 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 86_1530 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 87_1890 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 88_7049 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 89_440 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |
| 90_4331 | QRLCIARALARRPKLLVLDEPT | SALDAESGQSVMDTLR | TLVLCRRDGD | LSTAAASPLLRKA | | |

| | 1510 | 1520 | 1530 | 1540 | 1550 | 1560 |
|----------|-------|------|------|-------|-------|--|
| 1_1896 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 2_4785 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 3_3653 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 4_8157 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 5_752 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 6_8853 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 7_4015 | ..... |  |  |  |  |  |
| 8_2020 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 9_1829 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 10_6452 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 11_8627 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 12_6118 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 13_2688 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 14_6406 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 15_9419 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 16_8507 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 17_5884 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 18_2670 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 19_5172 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 20_8057 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 21_4920 | ..... |  |  |  |  |  |
| 22_6393 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 23_8263 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 24_8248 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 25_6733 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 26_2277 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 27_2623 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 28_7413 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 29_8980 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 30_8706 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 31_6378 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 32_4679 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 33_2437 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 34_9700 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 35_10218 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 36_2652 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 37_5779 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 38_654 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 39_4879 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 40_8113 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 41_1767 | LQP | AAP | RPV | QLGG | QQLLP | QERQVQLQLRPRSCRRHTAPAAAGRGHHAFARDDDEDGGPPRRH |
| 42_8428 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 43_9819 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 44_5569 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 45_4189 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 46_1027 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 47_5048 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 48_10124 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 49_7151 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 50_3695 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 51_364 | SF | SYV | HGAA | AGTQ | HRQPA | VVVITHSREMMKMADRLVVIDNGCVAETGTYEYLMAAGDSRL |
| 52_242 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 53_5225 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 54_1635 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 55_5766 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 56_1557 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 57_10137 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 58_10525 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 59_3457 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 60_8244 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 61_7964 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 62_4413 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 63_6958 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 64_5997 | ..... |  |  |  |  |  |
| 65_8711 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 66_9925 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 67_10374 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 68_3713 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 69_4511 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 70_6201 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 71_3261 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 72_8516 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 73_9295 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 74_809 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 75_7282 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 76_4910 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 77_10912 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 78_4020 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 79_6703 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 80_8619 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 81_4126 | DP | YNW | EGN | FFRK | SEGRS | FYSYVHGAAAGTQHRQPAVVVITHSREMMKMADRLVVIDNGCVA |
| 82_1363 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 83_5813 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 84_2044 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 85_7617 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 86_1530 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 87_1890 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 88_7049 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 89_440 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |
| 90_4331 | GGT | LS | SP | YSPQH | PD | PNWEGNFFRKSEGRSFSYVHGAAAGTQHRQPAVVVITHSREMMKMA |

| | 1570 | 1580 | 1590 | 1600 | 1610 | 1620 |
|----------|------------------|----------------|----------------|------------|------------|----------|
| 1_1896 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 2_4785 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 3_3653 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 4_8157 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 5_752 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 6_8853 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 7_4015 | ..... | ..... | ..... | ..... | ..... | ..... |
| 8_2020 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 9_1829 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 10_6452 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 11_8627 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 12_6118 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 13_2688 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 14_6406 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 15_9419 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 16_8507 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 17_5884 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 18_2670 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 19_5172 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 20_8057 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 21_4920 | ..... | ..... | ..... | ..... | ..... | ..... |
| 22_6393 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 23_8263 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 24_8248 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 25_6733 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 26_2277 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 27_2623 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 28_7413 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 29_8980 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 30_8706 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 31_6378 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 32_4679 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 33_2437 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 34_9700 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 35_10218 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 36_2652 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 37_5779 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 38_654 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 39_4879 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 40_8113 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 41_1767 | RQRLRGRD | GHL..... | ..... | ..... | ..... | ..... |
| 42_8428 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 43_9819 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 44_5569 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 45_4189 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 46_1027 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 47_5048 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 48_10124 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 49_7151 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 50_3695 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 51_364 | AELLDDGGYRAPAAK | SSGVPMENTT | SLEPVPVSPRTL | TRVVS | SPSP | EQYRRN |
| 52_242 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 53_5225 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 54_1635 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 55_5766 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 56_1557 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 57_10137 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 58_10525 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 59_3457 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 60_8244 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 61_7964 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 62_4413 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 63_6958 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 64_5997 | ..... | ..... | ..... | ..... | ..... | ..... |
| 65_8711 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 66_9925 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 67_10374 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 68_3713 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 69_4511 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 70_6201 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 71_3261 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 72_8516 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 73_9295 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 74_809 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 75_7282 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 76_4910 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 77_10912 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 78_4020 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 79_6703 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 80_8619 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 81_4126 | ETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMENTT | SLEPVPVSP | RTLTRVVS |
| 82_1363 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 83_5813 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 84_2044 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 85_7617 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 86_1530 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 87_1890 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 88_7049 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 89_440 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |
| 90_4331 | DRLVVIDNGCVAETGT | TYEYLMAAGDSRLA | ELLDDGGYRAPAAK | SSGVPMEK | TTSLEPVPVS | |

| | 1 6 3 0 | 1 6 4 0 | 1 6 5 0 | 1 6 6 0 | 1 6 7 0 |
|----------|---------|---------|---------|---------|---------|
| 1_1896 | P | R | T | T | L |
| 2_4785 | R | V | V | S | P |
| 3_3653 | S | P | E | Q | Y |
| 4_8157 | R | R | N | N | R |
| 5_752 | S | S | P | G | G |
| 6_8853 | I | P | Q | R | P |
| 7_4015 | G | M | N | M | E |
| 8_2020 | D | M | F | L | P |
| 9_1829 | Q | V | A | W | Q |
| 10_6452 | E | D | D | R | S |
| 11_8627 | P | R | T | T | L |
| 12_6118 | R | V | V | S | P |
| 13_2688 | S | P | E | Q | Y |
| 14_6406 | R | R | N | N | R |
| 15_9419 | S | S | P | G | G |
| 16_8507 | I | P | Q | R | P |
| 17_5884 | G | M | N | M | E |
| 18_2670 | D | M | F | L | P |
| 19_5172 | Q | V | A | W | Q |
| 20_8057 | E | D | D | R | S |
| 21_4920 | P | R | T | T | L |
| 22_6393 | R | V | V | S | P |
| 23_8263 | S | P | E | Q | Y |
| 24_8248 | R | R | N | N | R |
| 25_6733 | S | S | P | G | G |
| 26_2277 | I | P | Q | R | P |
| 27_2623 | G | M | N | M | E |
| 28_7413 | D | M | F | L | P |
| 29_8980 | Q | V | A | W | Q |
| 30_8706 | E | D | D | R | S |
| 31_6378 | P | R | T | T | L |
| 32_4679 | R | V | V | S | P |
| 33_2437 | S | P | E | Q | Y |
| 34_9700 | R | R | N | N | R |
| 35_10218 | S | S | P | G | G |
| 36_2652 | I | P | Q | R | P |
| 37_5779 | G | M | N | M | E |
| 38_654 | D | M | F | L | P |
| 39_4879 | Q | V | A | W | Q |
| 40_8113 | E | D | D | R | S |
| 41_1767 | P | R | T | T | L |
| 42_8428 | R | V | V | S | P |
| 43_9819 | S | P | E | Q | Y |
| 44_5569 | R | R | N | N | R |
| 45_4189 | S | S | P | G | G |
| 46_1027 | I | P | Q | R | P |
| 47_5048 | G | M | N | M | E |
| 48_10124 | D | M | F | L | P |
| 49_7151 | Q | V | A | W | Q |
| 50_3695 | E | D | D | R | S |
| 51_364 | P | R | T | T | L |
| 52_242 | R | V | V | S | P |
| 53_5225 | S | P | E | Q | Y |
| 54_1635 | R | R | N | N | R |
| 55_5766 | S | S | P | G | G |
| 56_1557 | I | P | Q | R | P |
| 57_10137 | G | M | N | M | E |
| 58_10525 | D | M | F | L | P |
| 59_3457 | Q | V | A | W | Q |
| 60_8244 | E | D | D | R | S |
| 61_7964 | P | R | T | T | L |
| 62_4413 | R | V | V | S | P |
| 63_6958 | S | P | E | Q | Y |
| 64_5997 | R | R | N | N | R |
| 65_8711 | S | S | P | G | G |
| 66_9925 | I | P | Q | R | P |
| 67_10374 | G | M | N | M | E |
| 68_3713 | D | M | F | L | P |
| 69_4511 | Q | V | A | W | Q |
| 70_6201 | E | D | D | R | S |
| 71_3261 | P | R | T | T | L |
| 72_8516 | R | V | V | S | P |
| 73_9295 | S | P | E | Q | Y |
| 74_809 | R | R | N | N | R |
| 75_7282 | S | S | P | G | G |
| 76_4910 | I | P | Q | R | P |
| 77_10912 | G | M | N | M | E |
| 78_4020 | D | M | F | L | P |
| 79_6703 | Q | V | A | W | Q |
| 80_8619 | E | D | D | R | S |
| 81_4126 | P | R | T | T | L |
| 82_1363 | R | V | V | S | P |
| 83_5813 | S | P | E | Q | Y |
| 84_2044 | R | R | N | N | R |
| 85_7617 | S | S | P | G | G |
| 86_1530 | I | P | Q | R | P |
| 87_1890 | G | M | N | M | E |
| 88_7049 | D | M | F | L | P |
| 89_440 | Q | V | A | W | Q |
| 90_4331 | E | D | D | R | S |