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          10          20          30          40          50          60
          |          |          |          |          |          |
1 - 60 KPQFPGASAEFIDKLEFIQPNVISGIPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMT
1 - 60   TT      T      TT T      TTT T 333   HHHHHHHHHHHH
1 - 60 ***** ***** ** ** *****
1 - 60 A AAAAAAAAAAAAAAAAAAAAAA AAAAA AAA AAAAAA A AAA A A

          70          80          90          100          110          120
          |          |          |          |          |          |
61 - 120 LLNTMDRILYEQRQGRISFYMTNYGEEGTHVGSAAALDNTDLVFGQYREAGVLMYRDYP
61 - 120 HHHHHHHHHHHHHHTTTTT      TT HHHHHHHHHT TTTSSS TT HHHHHHTT
61 - 120           * ** * **
61 - 120   A AA AAAA A                      AAA                      A A

          130          140          150          160          170          180
          |          |          |          |          |          |
121 - 180 LELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYA A KRANANR
121 - 180 HHHHHHHHHT TT TTTT T TT      TTTT      TTTTTHHHHHHHHHHHHHHTT
121 - 180           *****
121 - 180 AA      A A A A A      AAAAA A                      AAAAAA

          190          200          210          220          230          240
          |          |          |          |          |          |
181 - 240 VVICYFGEGAASEGDAHAGFNFAATLECP I IFFCRNNGYAISTPTSEQYRGDIAARGPG
181 - 240 SSSSSSTT333THHHHHHHHHHHHTT SSSSSS TSSTTSS333T TTTT333T33
181 - 240           * **** * * ** *           * * **** ***** * * **
181 - 240           AAA A A A A      A AAAA AAAAA AA AA

          250          260          270          280          290
          |          |          |          |          |
241 - 296 YGIMSIRVDGNDVFAVYNATKEARRRAVAENQPFLIEAMTYRIGHHSTSDSSAYR
241 - 296 3T SSSSSSTT HHHHHHHHHHHHHHHHT SSSSSS T TTTT 333T
241 - 296 ** **** *           * *** *           * **           **
241 - 296 AA A A                      AA AAA AAAAA A A A A AAAAA

          300          310          320          330          340          350
          |          |          |          |          |          |
297 - 356 VNYWDKQDHPISRRLRHYLLSQGWDEEQEKAWRKQSRRKVM EAFEQAERKPKPNP NLLFS
297 - 356 HHHHHHT HHHHHHHHHHHHTT HHHHHHHHHHHHHHHHHHHHHHT 333TT
297 - 356 ****           * ***           *           ** * * **
297 - 356 AAAAAA AA AAAAA AAAAA AA AAA AAA AA AA AAAAA AAAAA

          360          370          380          390
          |          |          |          |
357 - 391 DVYQEMPAQLRKQQESLARHLQTYGEHYPLDHF DK
357 - 391 TTTTT HHHHHHHHHHHHHHH333T 333
357 - 391 * ** * * * * ** *****
357 - 391 AA AA AAAAAAAAAAAAAA AAAAA AAAAA

          400          410          420          430          440          450
          |          |          |          |          |          |
392 - 451 EYGQTQKM NLFQSVTSALDNSLAKDPTAVIFGEDVAFGGVFRCTVGLRD KYGKDRVFNTP
392 - 451 TTSSSS HHHHHHHHHHHHHH TT SSSSTTTTTT TTTTTTHHHHH TTTSSS
392 - 451 ***** * **           ** * * * * **
392 - 451 AAAA AA AA AA AA A A AAA AA AAAAA AA A

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          460          470          480          490          500          510
          |           |           |           |           |           |
452 - 511 LCEQGIVGFGIGIAVTGATAIAEIQFADYIFPAFDQIVNEAAKYRYSRSGDLFNCGLTIR
452 - 511 T HHHHHHHHHHHHHTT SSSS TT333 333HHHHHTTTTTHHHHTTTT TTSSSS
452 - 511 ****
452 - 511 A           A           A AA AA  A  A  A  A

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          520          530          540          550          560          570
          |           |           |           |           |           |
512 - 571 SPWGCVGHGALYHSQSPEAFFAHCPGKIVVPRSPFQAKGLLLSCIEDKNPCIFFEPKIL
512 - 571 SSST TT TTTT HHHHT TT SSS TTHHHHHHHHHHHHTTT SSSSS333
512 - 571 * **** * ** ***
512 - 571 A A AAA A A A A A A A A A

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          580          590          600          610          620          630
          |           |           |           |           |           |
572 - 631 YRAAAEEVPIEPYNIPLSQAEVIQEGSDVTLVAVGTQVHVIREVASMMAKEKLGVSCEVID
572 - 631 TTT SSSSTT TT SSSS TTSSSSS TTHHHHHHHHHHHHHHHH SSSSS
572 - 631 *
572 - 631 AAA A AAA A A A AA AA AA A AA A AAAAA A

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          640          650          660          670          680          690
          |           |           |           |           |           |
632 - 691 LRTIIPWDVDTICKSVIKTGRLLISHEAPLTGGFAISESSTVQEECFNLNLEAPISRVCGY
632 - 691 SSST HHHHHHHHHHT SSSSSSSTTT HHHHHHHHHHHH333 TT SSSS
632 - 691 * *** ** *** ** * * *** * *
632 - 691 A A AA A AAA A A AAA AAAAA A A A

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          700          710          720
          |           |           |
692 - 720 DTPFPHFEPFYIPDKWKCYDALRKMINY
692 - 720 TT TTTHHHHT HHHHHHHHHHT
692 - 720 *** *** * * ** * *
692 - 720 AAA AAA AA AAA A AA AAA

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