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|                                             |                                                                                    |    |
|---------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 1111 NGFG RS09220 WP 003689814.1    | ...MSDLVLSPFAVP.LAAVLGLLVGSFLNVVIYRVVMMERGWTVFAKEHLNPLTDDDESRTFNLMPDSCCPKCRVP      | 76 |
| NTDB id 82360 RG38 RS13055 WP 001317326.1   | ..MLFDVFQQYPAAMPILATVGGLIIGSFLNVVIWRYPIMLRQQMAEFH.....GEMPSAQSKISLALPRSHCPHCQQT    | 72 |
| NTDB id 1438 BW25113 RS15435 WP 001333829.1 | ..MLFDVFQQYPTAMPVLATVGGLIIGSFLNVVIWRYPIMLRQQMAEFH.....GEMSSAQSKISLALPRSHCPHCQQT    | 72 |
| NTDB id 1080 FDQ49 RS18305 WP 022575844.1   | MQDIIAYFIQNLTALYIAVALVSLCIGSFLNVVIYRTPRMMEQDWQCEQMLLNPEQPIIDHEKLTLSKPASSCPACHQP    | 80 |
| NTDB id 1061 ABD1 RS18470 WP 001152280.1    | MQDIIAYFIQNLTALYIAVALVSLCIGSFLNVVIYRTPKMMEQDWQCEQMLLNPEQPIIDHERLTNLKPASSCPACQQP    | 80 |
| NTDB id 1170 A1552VC RS11080 WP 000418747.1 | .MELFFYFY...PWLFPVLATLFLGLVIGSFLNVVIYRLPKIMEREWRAECAASFPEYGITPPEGKLTLSLPRSTCPHCQTP | 76 |
| NTDB id 1403 DSB67 RS12675 WP 010643256.1   | .MEVFQYY...PWLFLVVFATIFGLVIGSFLNVVIYRLPKIMELEWRRRECAESFPEYKIEPPKETLTLSVPRSSCQCCGTQ | 76 |
| consensus                                   | *** ** * * **** * !!!!!!!!!!!!!!! !***** ** * **** !!!!!!! !***                    |    |

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| NTDB id 1111 NGFG RS09220 WP 003689814.1    | IRAWQNIPIVSYLLLRGKCASCQTKISIRYPLIELLTGVLFGLVWAWYGVSWITLGGILTAFLISLTFIDADTQYLPDS   | 156 |
| NTDB id 82360 RG38 RS13055 WP 001317326.1   | IRIRDNIPLLSWLMKGRCDRCQAKISKRYPLVELLTALAFLLASLVWPESGWALAVMILSAWLIAASVIDLDHQWLPDV   | 152 |
| NTDB id 1438 BW25113 RS15435 WP 001333829.1 | IRIRDNIPILFSWLMKGRCDRCQAKISKRYPLVELLTALAFLLASLVWPESGWGLAVMILSAWLIAASVIDLDHQWLPDV  | 152 |
| NTDB id 1080 FDQ49 RS18305 WP 022575844.1   | IRWYQNIPLISWLVLRGKCGHCHPISIRYPATELLTMLCSLVVVMVFGPTIQMLFGLVLTWVLIALTDFIDFDTQLLPDR  | 160 |
| NTDB id 1061 ABD1 RS18470 WP 001152280.1    | IRWYQNIPLVISWLVLRGKCGHCHPISIRYPATELLTMLCSLVVVMVFGPTIQMLFGLVLTWVLIALTDFIDFDTQLLPDR | 160 |
| NTDB id 1170 A1552VC RS11080 WP 000418747.1 | IRVIDNIPLLSWLALRGKCSHCKAPISARYPLIELLTALMSLVIATHFPFGVFAVALLFFSYVLIATDFIDFDTLLLPDQ  | 156 |
| NTDB id 1403 DSB67 RS12675 WP 010643256.1   | IRIRDNIPVISWLLRGKCHNCQAPINARYPLIELLTAFCSGFI AFHFGFSYFTVALVFFTFLVLIATFIDLDTMLLPDQ  | 156 |
| consensus                                   | !!* *!!!!!!*!***** !!!!!* !!!!!*!!!!!!* **** * * * *****!!!!*!!!!!! !*****!!      |     |

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| NTDB id 1111 NGFG RS09220 WP 003689814.1    | MTLPLIWLGLIFNLDGGF.VPLQSAVLGAVAGYSSLWLCAVYKLLTGKTMGMNGDFKLTAAALGAWLGISALPVLIFVSS  | 235 |
| NTDB id 82360 RG38 RS13055 WP 001317326.1   | FTQGVLWTLGLIAAWAQSPPLTLQDAVTGVLVGFITFYSLRWIAGIVLRKEALGMGDVLLFAALGSWVGPLSLPNVALIAS | 232 |
| NTDB id 1438 BW25113 RS15435 WP 001333829.1 | FTQGVLWTLGLIAAWAQSPPLTLQDAVTGVLVGFITFYSLRWIAGIVLRKEALGMGDVLLFAALGGWVGALSLPNVALIAS | 232 |
| NTDB id 1080 FDQ49 RS18305 WP 022575844.1   | FTLPLAALGLGINTFNIY.TSPNSAIWGYLIGFLCLWIVYYLFKVITGKEGMGYGDFKLLAALGAWMGPLMLPLIVLLSS  | 239 |
| NTDB id 1061 ABD1 RS18470 WP 001152280.1    | FTLPLAALGLGINTFNIY.TSPNSAIWGYLIGFLCLWIVYYLFKVITGKEGMGYGDFKLLAALGAWMGPLMLPLIVLLSS  | 239 |
| NTDB id 1170 A1552VC RS11080 WP 000418747.1 | LTLPLIWGGIALALLGFSPVSLSDAVIGAMAGYLSLWSIYWLFKLLTGKEGMGYGDFKLLAALGAWLGWQQLPVIVLLSS  | 236 |
| NTDB id 1403 DSB67 RS12675 WP 010643256.1   | LTLPLMWTGIALALAGISPVSLQDSIIGAMAGYLCWVYWLKLLTGKEGMGYGDFKLLAALGAWLGWQSLPMIILLSS     | 236 |
| consensus                                   | *!!!!!! !**** * **** * ! *****!!!!!!!!!!!!!!!!!!!!!! * !!!!!!!                    |     |

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| NTDB id 1111 NGFG RS09220 WP 003689814.1    | LIGLVAATVMRVAK....GRHFAFGPALTVSGWIIFTANDSVWRAVNWVWLTHPVR...  | 286 |
| NTDB id 82360 RG38 RS13055 WP 001317326.1   | CCGLIYAVIIKKG....STTLFPFGPCLSLGGIATLYLQALF.....              | 269 |
| NTDB id 1438 BW25113 RS15435 WP 001333829.1 | CCGLIYAVITKRG....STTLFPFGPCLSLGGIATLYLQALF.....              | 269 |
| NTDB id 1080 FDQ49 RS18305 WP 022575844.1   | LLGAIIGIILLKLRND..NQPFAGFPYIAIAGWVAFWLGWDQI...MKIYLG.....    | 286 |
| NTDB id 1061 ABD1 RS18470 WP 001152280.1    | LLGAIIGIILLKLRND..NQPFAGFPYIAIAGWVAFWLGWDQI...MKIYLG.....    | 286 |
| NTDB id 1170 A1552VC RS11080 WP 000418747.1 | VVGVIIFGLIQLRQKKGIDMAFFPGPYLAIAAGWVAFWLGWDKV...IDWYFTTWVGQPL | 291 |
| NTDB id 1403 DSB67 RS12675 WP 010643256.1   | VVGVIIFGLIQLRLQKQIEKAFFPGPYLAIAAGWVSLIWGHQI...LNWYFTSILGV..  | 289 |
| consensus                                   | ***!***** **!!!!*****! * ***** * * *                         |     |

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved