

logo

|                                             |                                                                                  |    |
|---------------------------------------------|----------------------------------------------------------------------------------|----|
|                                             | MSXLSIGDRRLGAALLDQGYLDNQLQRALERHSEVGGRLAEVLVDMLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK   |    |
| NTDB id 1410 SGL RS13950 WP 010873519.1     | .....                                                                            | 0  |
| NTDB id 1306 DR RS10060 WP 027479822.1      | .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL | 79 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK | 80 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                                                            | 0  |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                                                            | 0  |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                                                            | 0  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                                                            | 0  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                            | 0  |
| NTDB id 141690 PSP0 RS10615 WP 010561749.1  | .....                                                                            | 0  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                            | 0  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                            | 0  |
| consensus                                   |                                                                                  |    |

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|---------------------------------------------|----------------------------------------------------------------------------------|-----|
|                                             | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA |     |
| NTDB id 1410 SGL RS13950 WP 010873519.1     | .....                                                                            | 0   |
| NTDB id 1306 DR RS10060 WP 027479822.1      | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA | 157 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDTLSEEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P | 158 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                                                            | 0   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                                                            | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                                                            | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                                                            | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                            | 0   |
| NTDB id 141690 PSP0 RS10615 WP 010561749.1  | .....                                                                            | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                            | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                            | 0   |
| consensus                                   |                                                                                  |     |

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|                                             | SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL |     |
| NTDB id 1410 SGL RS13950 WP 010873519.1     | .....                                                                           | 0   |
| NTDB id 1306 DR RS10060 WP 027479822.1      | SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL | 237 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVDPDSAA | 237 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                                                           | 0   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                                                           | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                                                           | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                                                           | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                           | 0   |
| NTDB id 141690 PSP0 RS10615 WP 010561749.1  | .....                                                                           | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                           | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                           | 0   |
| consensus                                   |                                                                                 |     |

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|---------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | .....MTS                                                                         | 3   |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRDPIDALIGRPVQLMLTRPRDIERLIEQFYPQGRGLGEQLVQEGTL   | 317 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR | 317 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                                                            | 0   |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                                                            | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                                                            | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                                                            | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                            | 0   |
| NTDB id 141690 PSP0 RS10615 WP 010561749.1  | .....                                                                            | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                            | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                            | 0   |
| consensus                                   |                                                                                  |     |

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|---------------------------------------------|--------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | SSSSKKSRAVALRNYFSPFGNKL                                                        | 83  |
| NTDB id 1306 DR RS10060 WP 027479822.1      | DQLREALQVQAREGKVKPLGEVITELGFASPD                                               | 388 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | EALKEALEVQKGLPRAKPLGEILVELGLARPEDVEEALQKQRRGGGRLEDTLV..QSGKLSPEMLARS           | 388 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....MSVGLLRILVQNQVVTVEQAEHYNE.SQAGKEVLPMLF..SDGVISPKSLAALIA.....RVF           | 56  |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....MLTNLVAILRQAEILISATQEQAVVTQVSASGTSVPEALL..ELSIFHAQELTEQLS.....HIF         | 57  |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....MHSNLSLTLRQKGLLTFSQEESLIEQVKASGISMPEALL..SSGFFTSSSLAEHLS.....SIF          | 57  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....MLTNLSTVLRQAGILTFSSQEESSLIEQVKASGISMPEALL..SSGFFQSHLTHELS.....SVF         | 57  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIV..KNKILSAEQIALTA.....QNF   | 65  |
| NTDB id 141690 PSP0 RS10615 WP 010561749.1  | .....MNVNLSLIRKCVAMGFIAHEQVI...SAASSTTHISEFIL..NNSKLSSKQLAGYCS.....SWF         | 55  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTVAYLI..EEVHLSPSLLAETIS.....AEF | 65  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDTPVPLYI..DNFSTISPLTIAEIS.....LEF | 65  |
| consensus                                   | *****                                                                          |     |

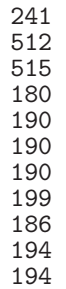
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|---------------------------------------------|----------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | GVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQEGDPPSVLVAMVDPDNLAAQDELNRILRVKG..FELRRL  | 161 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GYEFLDPIQNPPD....PKVALMIPAEATARRYVVVVRQLG...NSLVVAMKDPRNVFALDDDLKLITG.....KEILPA | 455 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | GYPYVDPEEDPPD....PGAPLLLPEDLCRRYGVPFHRLEG...NRLVLMLMKDPRNILALDDVRLALKRKGLNYEVAPA | 460 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | SYSILDLRHYPRH....RVLMSGVLTEEQMVFEHCVPVFRRG...DKVFFAVSDPTQMPQIQKTVSAAG.....IAVELV | 123 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | GLPETDLSDYDYA....NLCQQLGLRELITRYDALPIAKQG...NLLLLAVSDPTLLQAEFFRFRATG.....LQVELA  | 124 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | GLSQPELSQYEYA....SLCQQLGLRELITRHNALPLHRT...STLLAVADPTNQQAEDDFRFRATG.....LQVELV   | 124 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | GLSCTSLNQYEYA....SLCQTLGLRDLITRHNALPLNRTS...STLLAVADPTNLQAEDDFRFRATG.....LQVELV  | 124 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | GVPMIDINCIDVG....TIPVNLVNEKLIKRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQFHTG.....LNTHAI  | 132 |
| NTDB id 141690 PSP0 RS10615 WP 010561749.1  | NLPVLDIATVEPS....SIPLDDISEELVKKHHLLPLSKCG...RTLFLATSDPTNFDADFEDFEFNTG.....LQTEAI | 122 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | AEPYFDLDVYDTS....QIPKDLVDQKLILKHRILPLIQRG...QILYVATSNPSNIEATDAIRFNASK....LLVEPV  | 132 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | GEPLLDLGVFDPA....LFLKDKIDKLIQKYRIMPLVHRG...HVLVYVATSNPTNIEAMDAIRFNASK....LKVEPI  | 132 |
| consensus                                   | *****                                                                            |     |

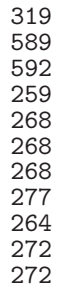
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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
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NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 141690 PSP0 RS10615 WP 010561749.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

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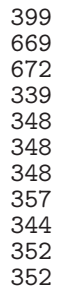
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NTDB id 1168 A1552VC RS11070 WP 000957200.1
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NTDB id 1401 DSB67 RS12665 WP 010643259.1
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
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NTDB id 141690 PSP0 RS10615 WP 010561749.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

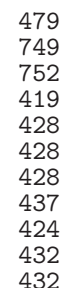
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NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 141690 PSP0 RS10615 WP 010561749.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

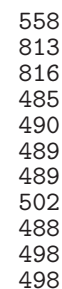
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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 141690 PSPQ RS10615 WP 010561749.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

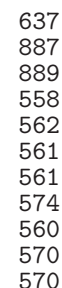
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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
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NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 141690 PSP0 RS10615 WP 010561749.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

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|---------------------------------------------|--------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | EMRAKRRKSALTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | .....                                | 887 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | .....                                | 889 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                | 558 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                | 562 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                | 561 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                | 561 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                | 574 |
| NTDB id 141690 PSP0 RS10615 WP 010561749.1  | .....                                | 560 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                | 570 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                | 570 |
| consensus                                   |                                      |     |

- X non conserved
- X similar
- X ≥ 50% conserved