

logo

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|-----------------|--------------------------------|---|----|
| | | MSXLRIGDRRLGAALLDAGLLTDEELQRALERHREVEGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV | 0 |
| NTDB id 1410 | SGL RS13950 WP 010873519.1 | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVEGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV | 80 |
| NTDB id 1028 | TT RS08215 WP 011173991.1 | .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL | 79 |
| NTDB id 1306 | DR RS10060 WP 027479822.1 | ..... | 0 |
| 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 | GCO85 RS07725 WP 011946523.1 | ..... | 0 |
| NTDB id 1077345 | ACJKIJ RS24085 WP 058355294.1 | ..... | 0 |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1 | | 0 |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1 | | 0 |
| consensus | | | 0 |

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|-----------------|--------------------------------|---|-----|
| | | RSLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P | 0 |
| NTDB id 1410 | SGL RS13950 WP 010873519.1 | ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P | 158 |
| NTDB id 1028 | TT RS08215 WP 011173991.1 | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLLEIVVPSGA | 157 |
| NTDB id 1306 | DR RS10060 WP 027479822.1 | ..... | 0 |
| 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 | GCO85 RS07725 WP 011946523.1 | ..... | 0 |
| NTDB id 1077345 | ACJKIJ RS24085 WP 058355294.1 | ..... | 0 |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1 | | 0 |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1 | | 0 |
| consensus | | | 0 |

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|-----------------|--------------------------------|--|-----|
| | | SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLFLESTEGIVPDPSAA | 0 |
| NTDB id 1410 | SGL RS13950 WP 010873519.1 | SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLFLESTEGIVPDPSAA | 237 |
| NTDB id 1028 | TT RS08215 WP 011173991.1 | SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGPHGEEVL | 237 |
| NTDB id 1306 | DR RS10060 WP 027479822.1 | ..... | 0 |
| 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 | GCO85 RS07725 WP 011946523.1 | ..... | 0 |
| NTDB id 1077345 | ACJKIJ RS24085 WP 058355294.1 | ..... | 0 |
| NTDB id 1058 | ABD1 RS01615 WP 001274986.1 | | 0 |
| NTDB id 1018 | ACIAD RS01685 WP 004920473.1 | | 0 |
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 NTDB id 1058 ABD1 RS01615 WP 001274986.1
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.....MTS
 LLLLRSDALRYGAVPIGFQNGEVEVLS DPRHKEAVAQLLNRPARFYALALPQAW EELFRAYPQKNRLGEVLVQEGKLSR
 GSMLRADALRLLAVPVDETEQGVTVLTS DPRKRKPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGEQLVQEGTLSR

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317
317
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SSSSKKSRAVALRNYFSPFGNKLIVAGCHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELIRQYKKNQLFELKVLVY
 EALKEALEVQKGLPRAKPLGETLVELGLARPEDVEEALQKQRGGRIEDTLVQ..SGKIRPEALQA.....VATQL
 DQLREALQVQAREGKVKPLGEVITELGFASPEVDSALQKQNVGGRIEDTLVQ..SGKLSPEMLARS.....LAAQL
MSVGLLRILVQNQVVTVEQAEHYNE.SQAGKEVLPMLFS..DGVISPKSLAAL.....IARVF
MLTNLVAILRQAE LISATQEAVVTQVSASGTSVPEALIE..LSIFHAQELTEQ.....LSHIF
MHSNLSTILRQKGLTFSQEESLIEQVKASGISMPEALLS..SGFFTSSSLAEH.....LSSIF
MLTNLSTVLRQAGILTFSQEESLIEQVKASGISMPEALLS..SGFFQSHELTEH.....LSSVF
MALATEEYRLQGITQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALT.....AAQNF
MNDSTPLSGLAKQLVLNELLDEKTARQAQVQAARNKQSLVSHLVQ..AKLVQSRA LVEV.....AAEQF
MSALHTSPKFTGFFRRLVVEEKHVSAAATMQTALDAAKRAKQD TVAYLIE..EVHLSPSLLAET.....TSAEF
MSAFTTPPKFSGFIRR LVEEGYVNAQNMQQALEKAKKFKQDTPVYLLID..NFSISPLTIAEI.....LSLEF

83
388
388
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 NTDB id 1028 TT RS08215 WP 011173991.1
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 NTDB id 1058 ABD1 RS01615 WP 001274986.1
 NTDB id 1018 ACIAD RS01685 WP 004920473.1

GVDSVDPEVAPIATQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRILRVKG..FELRRL
 GYPYVDPEEDPPD....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLLMKDPRNIALDDVRLALKRKLNYEVAPA
 GYFELDPIQNPPD....PKVALMPEATARRVVPVRLQG...NSLVVAMKDPNRNVFALDDLKLITG.....KETLPA
 SYSILDLRHYPRH....RVLMLGVLTEEQMVVEFHCVVFRRG...DKVFFAVSDPTQMPQIQKTVSAAG.....IAVELV
 GIPETDLRSYDYA....NLCQQGLGRELITRYDALPIAKQG...NLLAVSDPTLLQAEFFRFATG.....LQVELA
 GLSQPELSQYEYA....SLCQQLGLRELITRHNA LPHRTP...STLLAVADPTNQAEDDFRFATG.....LQVELV
 GLSCTSLNQYEYA....SLCQTLGLRDLITRHNA LPLNRTS...STLILAVADPTNLQAEDDFRFATG.....LQVELV
 GVPMLDINCIDVG....TIPVNLVNEKLIKRRHAMVPLFSRG...TNLYLATDPSKQASIKIIFHTG.....LNTHAI
 GIAYCDLNSLDRE....SIPKDVISERLVRQHRVLPWKRG...NKLFIGLSDPTNHQAVTDI QFSTG.....LTTEAL
 AEPYFDLDVYDTS....QIPKDLVDQKLILKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFNSK.....LLVEPV
 GEPLDLGVFDPA....LFLDKIDEKLIQYRIMPLVHRG...HVLVYVATSNPTNIEAMD A IRFNSK.....LKVEPI

161
460
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| | EMRAKRKRSALTCRTCAAELQQEWLDCPYCMTSRFS | |
|---|--------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1 | EMRAKRKRSALTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
| NTDB id 1028 TT RS08215 WP 011173991.1 | | 889 |
| NTDB id 1306 DR RS10060 WP 027479822.1 | | 887 |
| 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 1077345 ACJKIJ RS24085 WP 058355294.1 | | 566 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1 | | 570 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1 | | 570 |
| consensus | | |

-  non conserved
-  similar
-  ≥ 50% conserved