

logo

|                                             |                                                                                   |    |
|---------------------------------------------|-----------------------------------------------------------------------------------|----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | MSXLSIGDRRLGAALLDRLDNLQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV      | 0  |
| NTDB id 1028 TT RS08215 WP 011173991.1      | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV  | 80 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | .MALSIGDRRLGAILLDQGYLGDNLDLQRALERHSEVGGRLADVLLIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAL | 79 |
| 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 1110 NGFG RS09235 WP 003689817.1    | .....                                                                             | 0  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                             | 0  |
| NTDB id 233397 CDG41 RS27300 WP 023094327.1 | .....                                                                             | 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     | SLTPAEKAKELRAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP       | 0   |
| NTDB id 1028 TT RS08215 WP 011173991.1      | ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P    | 158 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | RSIRPQTALNLQAFPPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIIVVPSGA | 157 |
| 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 1110 NGFG RS09235 WP 003689817.1    | .....                                                                              | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                              | 0   |
| NTDB id 233397 CDG41 RS27300 WP 023094327.1 | .....                                                                              | 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     | SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA  | 0   |
| NTDB id 1028 TT RS08215 WP 011173991.1      | SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEEQEGTTFLPNPSGFHPGEEVL | 237 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | .....                                                                            | 237 |
| 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 1110 NGFG RS09235 WP 003689817.1    | .....                                                                            | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                            | 0   |
| NTDB id 233397 CDG41 RS27300 WP 023094327.1 | .....                                                                            | 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 1028 TT RS08215 WP 011173991.1      | LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARYLALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR    | 317 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GSMLRADALRLLAVPVDETEQGVTVLTS DPRKRDPIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLLGEQLVQEGTLSR | 317 |
| 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   |
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| NTDB id 233397 CDG41 RS27300 WP 023094327.1 | .....                                                                               | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                               | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                               | 0   |
| consensus                                   |                                                                                     |     |

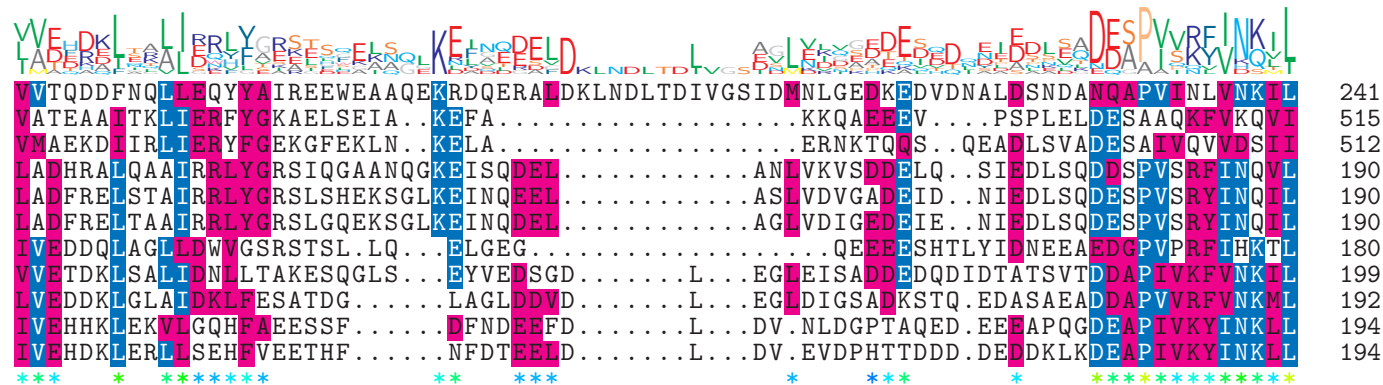
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|---------------------------------------------|-------------------------------------------------------------------------------------|-----|
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| NTDB id 1028 TT RS08215 WP 011173991.1      | EALKEALEVQKGLPRAKPLGETLVELGIARPEDVEEALQKQRGGGRIEDTLV..QSGKLRPEALAAQAV.....ATQL      | 388 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | DQLREALQVQAREGKVKPLGDEVITELGFASPDVEVDSALQKQNVGGRIEDTLV..QSGKLSPEMLARSL.....AAQL     | 388 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....MLTNLVAILRQAE LISATGEQAVVTQVSASGTSVPEALL..ELSIFHAQELTEQL.....SHIF              | 57  |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....MHSNLSTILRQKGLLTFSGEESLIEQVKASGISMPEALL..SSGFFTSSSLAEHL.....SSIF               | 57  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALL..SSGFFQSHELTEHL.....SSVF               | 57  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....MSVGLLRILVQNQVVTVEQA EHYYNES.QAGKEVLPMLF..SDGVI SPKSLAALI.....ARVF             | 56  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIV..KNKILSAEQIALTA.....AQNF       | 65  |
| NTDB id 233397 CDG41 RS27300 WP 023094327.1 | .....MNDSIQLSGLSRQLVQANLLDEKTA LQAQAQARNKLSLVTHLV..QNKLVSGLALAE LS.....AEQF         | 62  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....MSALHTSPKFTGFFRRLVEEKHVS AATMQTALDAAKRAKQDTVAYLI..EEVHLSPSLLAETI.....SAEF      | 65  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....MSAFTTPPKFSGFIRRLVEEGYVNAQNMQALEKAKKFKQDTPVPLYI..DNFSTISPLTIAEII.....SLEF      | 65  |
| consensus                                   | * * * * *                                                                           |     |

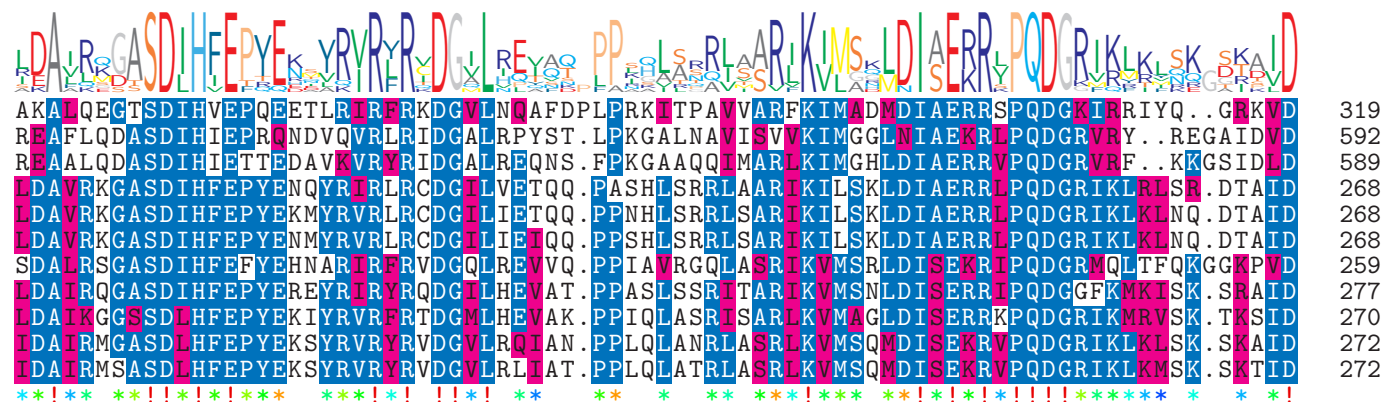
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|---------------------------------------------|--------------------------------------------------------------------------------------|-----|
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| NTDB id 1028 TT RS08215 WP 011173991.1      | GYPYVDPEEDPPD.....PGAPLLLPEDLCRRYGVFPHRLEG...NRLVLMLKDPNRNIALDDVRLALKRKGLNVEVAPA     | 460 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GYEFLDPIQNPPD.....PKVALMIP EATARRV VVPVRLQG...NSLVVAMKDPNRNVFALDDLKLITG....KEILPA    | 455 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | GLPETDLRSYDYA.....NLCQQGLGLRELITRYDALPIAKQG...NLLLLAVSDPTLLQAE EEF RFATG.....LQVELA  | 124 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | GLSQPELSQYEYA.....SLCQQGLGLRELITRHNALPLHRT...STLLLAVADPTNQQAEDDFRFATG.....LQVELV     | 124 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | GLSCTSLNQYEYA.....SLCQTLGLRDLITRHNALPLNRTS...STLILAVADPTNLQAEDDFRFATG.....LQVELV     | 124 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | SYSILDLRHYPRH.....RVLMSGVLTEEQMV E FHCVPVFRRG...DKVFFAVSDPTQMPQIQKTVSAAG.....I AVELV | 123 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | GVPMLDINCIDVG.....TIPVNLVNEKLIK RHAMVPLFSRG...TNLYLATDDPSKQASLKEIQFHTG.....LNTHAI    | 132 |
| NTDB id 233397 CDG41 RS27300 WP 023094327.1 | GIAYCDLNSLDKE.....SFPRDTISEKLVQRHVIPLWRRG...NKL FVGISDPANHQAINDVQFSTG.....LTTEAI     | 129 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | AEPYFDLDVYDTS.....QIPKDLVDQKLILKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFN SK.....LKVEPV    | 132 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | GEPLIDLGVFDPA.....LFLKDKID EKLIQKYRIMPLVHRG...HVLVYVATSNPTNIEAMDAIRFN SK.....LKVEPI  | 132 |
| consensus                                   | * * * * *                                                                            |     |

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consensus



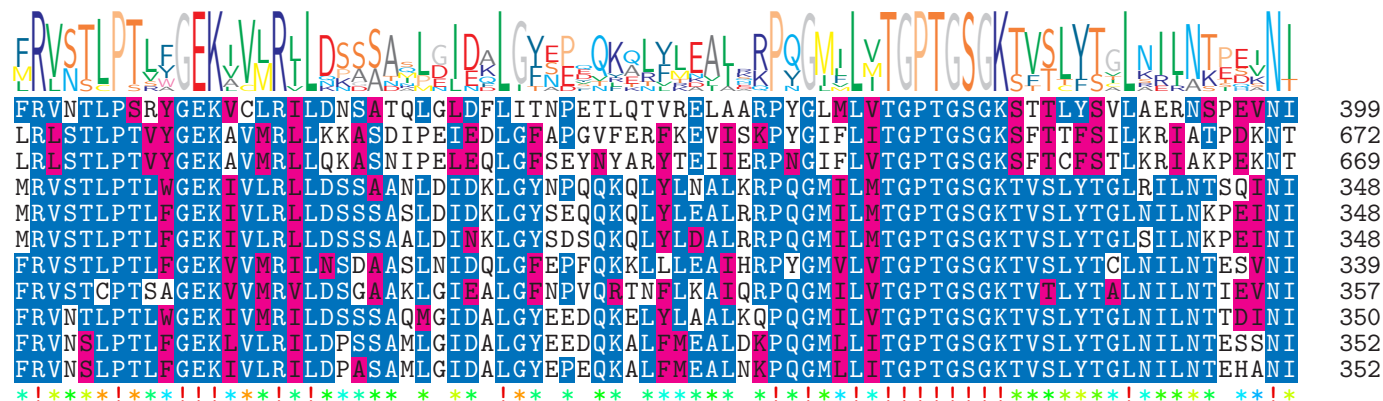
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NTDB id 233397 CDG41 RS27300 WP 023094327.1  
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NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



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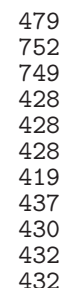
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

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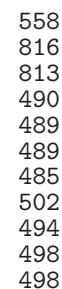




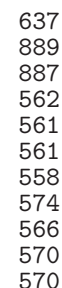
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consensus



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NTDB id 1018 ACIAD RS01685 WP 004920473.1  
consensus



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|---------------------------------------------|--------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | EMRAKRRKSALTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
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| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                | 561 |
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| NTDB id 233397 CDG41 RS27300 WP 023094327.1 | .....                                | 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