

logo

|               |                                |  |    |
|---------------|--------------------------------|--|----|
|               |                                | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVEVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV | 0  |
| NTDB id 1410  | SGL RS13950 WP 010873519.1     | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVEVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV | 80 |
| NTDB id 1028  | TT RS08215 WP 011173991.1      | .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVG EKRIARAIEEALGIPLVNL LAVQPDPAAL | 79 |
| NTDB id 1306  | DR RS10060 WP 027479822.1      | .....  | 0  |
| NTDB id 1366  | NTHI RS01950 WP 011271972.1    | .....  | 0  |
| NTDB id 1355  | HI 0298 AAC21962.1             | .....  | 0  |
| NTDB id 1168  | A1552VC RS11070 WP 000957200.1 | .....  | 0  |
| NTDB id 1401  | DSB67 RS12665 WP 010643259.1   | .....  | 0  |
| NTDB id 1293  | VP RS12240 WP 005479695.1      | .....  | 0  |
| NTDB id 75127 | MPB2EB RS01030 WP 185182042.1  | .....  | 0  |
| NTDB id 1110  | NGFG RS09235 WP 003689817.1    | .....  | 0  |
| NTDB id 1251  | GCO85 RS07725 WP 011946523.1   | .....  | 0  |
| NTDB id 1018  | ACIAD RS01685 WP 004920473.1   | .....  | 0  |
| NTDB id 1058  | ABD1 RS01615 WP 001274986.1    | .....  | 0  |
| consensus     |                                | .....  | 0  |

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|---------------|--------------------------------|---|-----|
|               |                                | ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P  | 0   |
| NTDB id 1410  | SGL RS13950 WP 010873519.1     | ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P  | 158 |
| NTDB id 1028  | TT RS08215 WP 011173991.1      | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIIVVPSGA | 157 |
| NTDB id 1306  | DR RS10060 WP 027479822.1      | .....   | 0   |
| NTDB id 1366  | NTHI RS01950 WP 011271972.1    | .....   | 0   |
| NTDB id 1355  | HI 0298 AAC21962.1             | .....   | 0   |
| NTDB id 1168  | A1552VC RS11070 WP 000957200.1 | .....   | 0   |
| NTDB id 1401  | DSB67 RS12665 WP 010643259.1   | .....   | 0   |
| NTDB id 1293  | VP RS12240 WP 005479695.1      | .....   | 0   |
| NTDB id 75127 | MPB2EB RS01030 WP 185182042.1  | .....   | 0   |
| NTDB id 1110  | NGFG RS09235 WP 003689817.1    | .....   | 0   |
| NTDB id 1251  | GCO85 RS07725 WP 011946523.1   | .....   | 0   |
| NTDB id 1018  | ACIAD RS01685 WP 004920473.1   | .....   | 0   |
| NTDB id 1058  | ABD1 RS01615 WP 001274986.1    | .....   | 0   |
| consensus     |                                | .....   | 0   |

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|---------------|--------------------------------|--|-----|
|               |                                | SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGFLESTEGIVPDPSAA  | 0   |
| NTDB id 1410  | SGL RS13950 WP 010873519.1     | SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGFLESTEGIVPDPSAA  | 237 |
| NTDB id 1028  | TT RS08215 WP 011173991.1      | SDAGRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL | 237 |
| NTDB id 1306  | DR RS10060 WP 027479822.1      | .....  | 0   |
| NTDB id 1366  | NTHI RS01950 WP 011271972.1    | .....  | 0   |
| NTDB id 1355  | HI 0298 AAC21962.1             | .....  | 0   |
| NTDB id 1168  | A1552VC RS11070 WP 000957200.1 | .....  | 0   |
| NTDB id 1401  | DSB67 RS12665 WP 010643259.1   | .....  | 0   |
| NTDB id 1293  | VP RS12240 WP 005479695.1      | .....  | 0   |
| NTDB id 75127 | MPB2EB RS01030 WP 185182042.1  | .....  | 0   |
| NTDB id 1110  | NGFG RS09235 WP 003689817.1    | .....  | 0   |
| NTDB id 1251  | GCO85 RS07725 WP 011946523.1   | .....  | 0   |
| NTDB id 1018  | ACIAD RS01685 WP 004920473.1   | .....  | 0   |
| NTDB id 1058  | ABD1 RS01615 WP 001274986.1    | .....  | 0   |
| consensus     |                                | .....  | 0   |

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| NTDB id 1410 SGL RS13950 WP 010873519.1     | .....MTS   | 3   |
| NTDB id 1028 TT RS08215 WP 011173991.1      | LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR | 317 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GSMLRADALRLLAVPVDETEQGVTVLTS DPRKRDPIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGEQLVQEGTLSR | 317 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1    | .....  | 0   |
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| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....  | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....  | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....  | 0   |
| NTDB id 75127 MPB2EB RS01030 WP 185182042.1 | .....  | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....  | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....  | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....  | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....  | 0   |
| consensus                                   | .....  | 0   |

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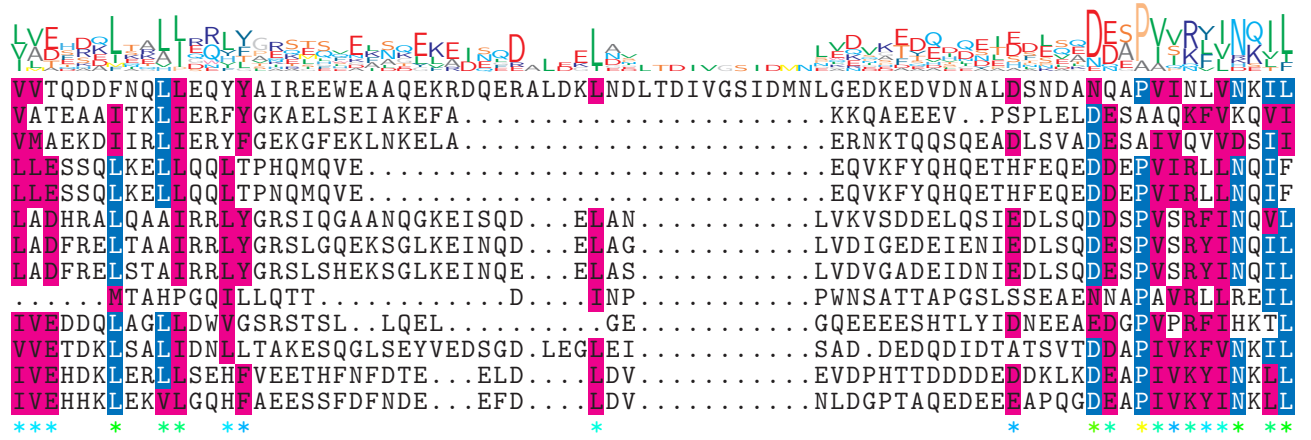
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| NTDB id 1410 SGL RS13950 WP 010873519.1     | SSSSKKSRAVALRNYFSPFGNKL VAGGHV DAEQLRQAL VQVKKTG RSLPEELKAVTGREL SPEL RQYKKNQLFEL KVLV | 83  |
| NTDB id 1028 TT RS08215 WP 011173991.1      | EALKEALEVQKGLPRAKPLGEI LVELGLARPEDVEEAL QKQRRGGGRIEDTLVQ..SGKLRPEALAAQ.....VATQL       | 388 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | DQLREALQVQAREGKVKPLGEV TITELGFASPDEVDSAL QKQNVGGGRIEDTLVQ..SGKLSPEMLARS.....LAAQL      | 388 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1    | .....MTS..YALLHTQRVTAQ.....NGEIF   | 20  |
| NTDB id 1355 HI 0298 AAC21962.1             | .....MTS..YALLHTQRVTAQ.....NGEVF   | 20  |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....MLTNLVAI LRQAEL ISATQEQAV VTQVSASGTS VPEALLE..LSIFHAQELTEQ.....LSHIF              | 57  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....MLTNLSTV LRQAGI LTFSQEESL IEQVKASGISMPEALLS..SGFFQSHELTEH.....LSSVF               | 57  |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....MHSNLSTI LRQKGL LTFSQEESL IEQVKASGISMPEALLS..SGFFTSSELAEH.....LSSIF               | 57  |
| NTDB id 75127 MPB2EB RS01030 WP 185182042.1 | .....MSVGLLRI LVQNQV VTVEQA EHYH.NESQAGKEV LPM LFS..DGVISP KSLAAL.....IARVF            | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....MALATEEYRLQGIGQL LVLEKLLDKTKAIELHKLAAA EKISLLQYIVK..NKILSAEQIALT.....AAQNF        | 65  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....MSAFTTPPKFSGFIRRL VEEGYVNAQNMQA LEKAKKFKQDIVPYLID..NFSISPLTIAEI.....ISLEF         | 65  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....MSALHTSPKFTGFFRRL VEEKHVSAATMQTAL DAAKRAKQDTVAYLIE..EVHLSPSLLAET.....ISAEF        | 65  |
| consensus                                   | .....* * * * *   |     |

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| NTDB id 1410 SGL RS13950 WP 010873519.1     | GVDSVDPEVAPIATQQMAELIGRFFPLDTCRRFKFL PLAQQEGDPPSV LVAMVDPDNLAAQDELNRILRVKG..FELRRL   | 161 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | GYPYVDPEEDPPDP....GAPL LPEDL CRRYGVFPHRLE...GNRLVLLMKDPRNILALDDVRLALKRKGLNVEVAPA     | 460 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GYEFLDPIQNPPDP....KVALM IPEATARRV VVPVRLQ...GNSLVVAMKDPRNVFALDDLKLITG.....KEILPA     | 455 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1    | T.....ISPD L...WERNQQQS LILRYFALPLKEE...NNRLWLGVDLSLNSACETIAFITG.....KPVEPI          | 79  |
| NTDB id 1355 HI 0298 AAC21962.1             | T.....ISPD L...WERNQQQS LLLRYFALPLKEE...NNRLWLGVDLSLNSACETIAFITG.....KPVEPI          | 79  |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | GLPETDLSRYDYAN....LCQQLGLRELITRYDALPIAKQ...GNL LLLAVSDPTLLQAEEDFRFATG.....LQVELA     | 124 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | GLSCTSLNQYEYAS....LCQTLGLRDLITRHNALPLNRT...SSTLILAVADPTNLQAEEDFRFATG.....LQVELV      | 124 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | GLSQPELSQYEYAS....LCQQLGLRELITRHNALPLHRT...PSTLLLAVADPTNQQAEDDFRFA TG.....LQVELV     | 124 |
| NTDB id 75127 MPB2EB RS01030 WP 185182042.1 | .....  | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | SYSILDLRHYPRHR....VLMGVLTEEQMV E FHCVPVFRR...GDKVFFAVSDPTQMPQIQKTVSAAG.....IAVELV    | 123 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | GVPM L DINCIDVGT....IPVNLVNEKLIK RHAMVPLFSR...GTNLYLATDPSKQASLKEITQFHTG.....LNTHAI   | 132 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | GEPLLDLGVDFDPAL....FLKDKIDEKLIQYRIMPLVHR...GHVLYVATSNPTNIEAMD A IRFNSK....LKVEPI     | 132 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | AEPYFLDLVDVYDTSQ....IPKDLVDQKLLILKHRI LPLIQR...GQILYVATSNPSNIEAID A IRFNSK....LLVEPV | 132 |
| consensus                                   | .....* * * * *   |     |

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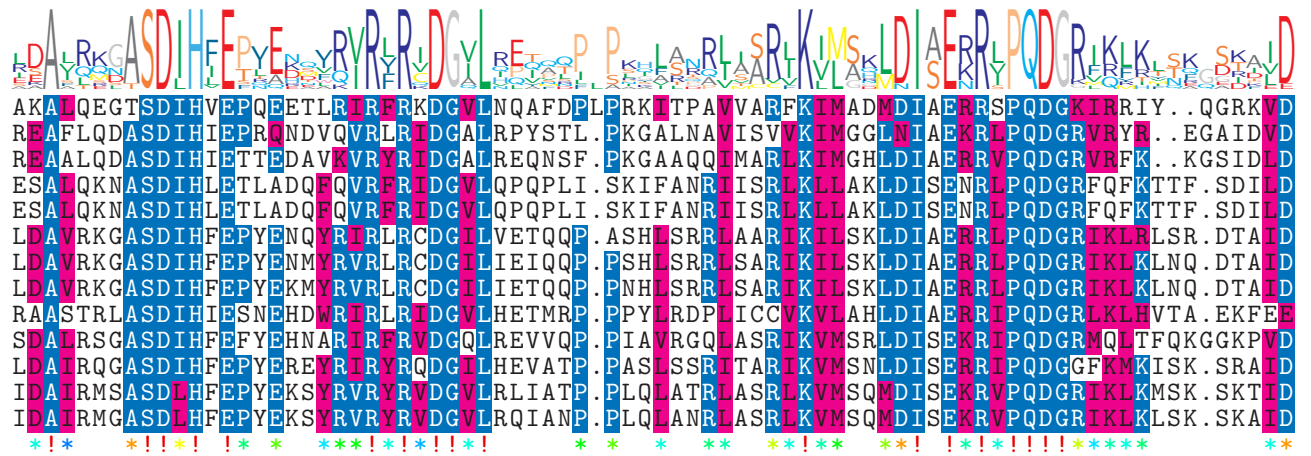
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 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 consensus



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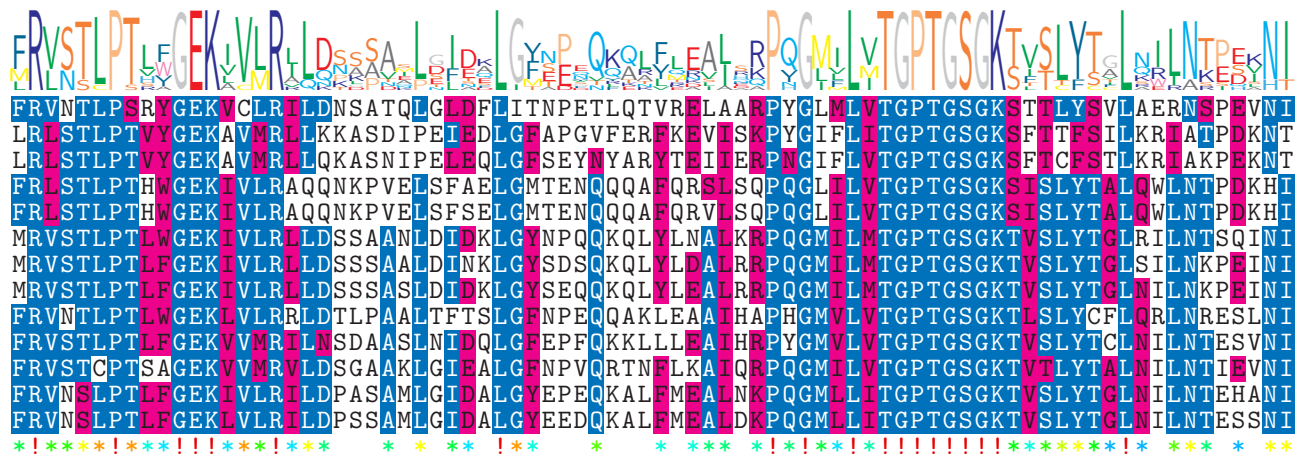
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 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 75127 MPB2EB RS01030 WP 185182042.1  
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 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 consensus



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NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1366 NTHI RS01950 WP 011271972.1  
 NTDB id 1355 HI 0298 AAC21962.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 75127 MPB2EB RS01030 WP 185182042.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 consensus



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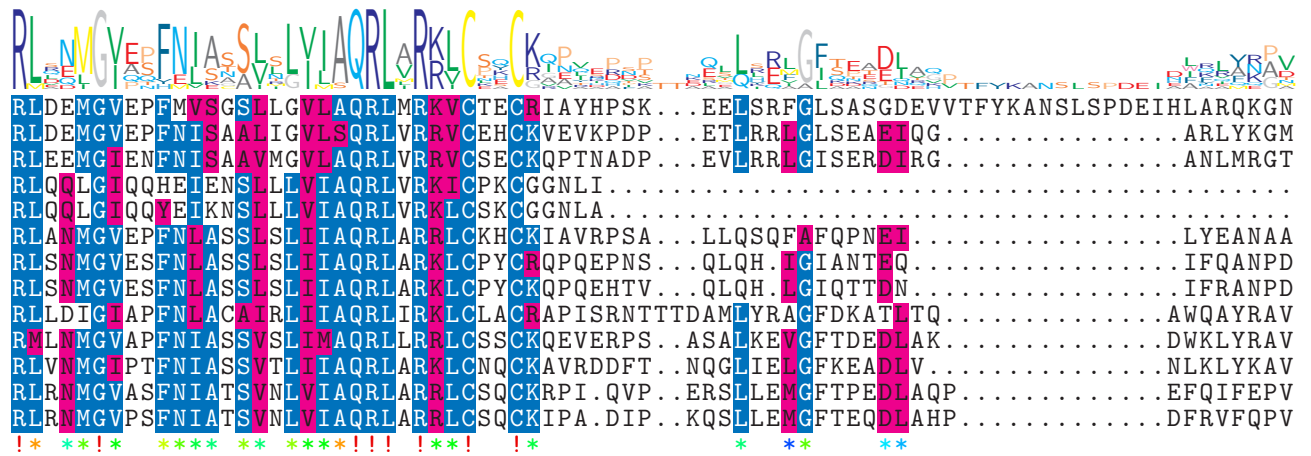
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 NTDB id 75127 MPB2EB RS01030 WP 185182042.1  
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 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 consensus



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NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1366 NTHI RS01950 WP 011271972.1  
 NTDB id 1355 HI 0298 AAC21962.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
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 NTDB id 75127 MPB2EB RS01030 WP 185182042.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 consensus



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NTDB id 1410 SGL RS13950 WP 010873519.1  
 NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1366 NTHI RS01950 WP 011271972.1  
 NTDB id 1355 HI 0298 AAC21962.1  
 NTDB id 1168 A1552VC RS11070 WP 000957200.1  
 NTDB id 1401 DSB67 RS12665 WP 010643259.1  
 NTDB id 1293 VP RS12240 WP 005479695.1  
 NTDB id 75127 MPB2EB RS01030 WP 185182042.1  
 NTDB id 1110 NGFG RS09235 WP 003689817.1  
 NTDB id 1251 GC085 RS07725 WP 011946523.1  
 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1  
 consensus



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|---|---|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | ESEMRAKRKRSALTCR <small>X</small> TCAAEL <small>X</small> Q <small>X</small> EWLDCPYCMTSRFS | 672 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | .....   | 889 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | .....   | 887 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1    | .....   | 464 |
| NTDB id 1355 HI 0298 AAC21962.1             | .....   | 464 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....   | 562 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....   | 561 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....   | 561 |
| NTDB id 75127 MPB2EB RS01030 WP 185182042.1 | F.....  | 431 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....   | 558 |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1   | .....   | 574 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....   | 570 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....   | 570 |
| consensus                                   |   |     |

X non conserved  
X similar  
X ≥ 50% conserved