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|-----------------------------------------------|-------------------------------------------------------------------------------------|----|
| NTDB id 1384 A4U84 RS08525 WP 010787006.1     | MSAFTTETKESGTFRLREAKTYSEKMEFQYSAARRGQDYKATUEEELFAGERTLHTLASETGGTIDNYYEYSL           | 22 |
| NTDB id 1065240 ACHWSO RS08430 WP 016504529.1 | .....MS.....QYTIC.....EQQTERIFDISPSRW                                               | 25 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1      | .....MFHENPLCTV.....SMTGVEFVEIQQALW                                                 | 27 |
| NTDB id 1355 HI 0298 AAC21962.1               | .....MTSYALLHTQRV.....TAQNGEIFTISPDLW                                               | 27 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1   | .....MTSYALLHTQRV.....TAKNGEVFTISPDLW                                               | 72 |
| NTDB id 1293 VP RS12240 WP 005479695.1        | .....MLINLVAILRQAELISATQEQAVVTQVSASGTSVPEALLLELSIFHAQELTEQLSHIFGLPETDLSRYDYANL      | 72 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1     | .....MHSNLSLTLRQKGLITFSQEESLIEQVKASGISMPEALLSSGFFTSSSLAEHLSSIFGLSQPELSQY EYASL      | 72 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1     | .....MLINLSTVLRQAGILTFQSQEESLLEQVKASGISMPEALLSSGFFQSHLTELHSSVFGLSCTSLNQY EYASL      | 80 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1      | MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVKNKILSAEQIALTAQNFVGPMLDINCIDVGTI     | 80 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1     | MSALHTSPKFTIGFFRRLLVEEKHVSAATMQTALDAAKRAKQD TVAYLIEEVHLSPSLLAETISAEFAEPYFDLDVYDTSQI | 80 |
| consensus                                     | MSAFTTTPPKFSGFIRRLVEEGYVNAQNMQALLEKAKKFKQDIVPYLIDNFSISPLTIAEIIISLEFGEPLLDLGVFDPALF  | 80 |

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| NTDB id 1384 A4U84 RS08525 WP 010787006.1     | QKNCEEKQLLLRYLAVPVQETEHKLWLAVDDENNLTACEIFAFMTHKQIEPVVIADELKYLLNALSPEQQPIYEESE..     | 100 |
| NTDB id 1065240 ACHWSO RS08430 WP 016504529.1 | QKNQQQQRFLRLRYFALPLQEDEKQLWLGVDSLANSACDAFSFLTNNKHIEPVLLSTNELKRALQQLSPPKLQVEENIP..   | 103 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1      | ERNQQQQSLRLRYFALPLKEENNRLWLGVDSLNSLSACETIAFITGKPVPEPILLESSQLKELLQQLTPHQMQVVEEQVK..  | 105 |
| NTDB id 1355 HI 0298 AAC21962.1               | ERNQQQQSLRLRYFALPLKEENNRLWLGVDSLNSLSACETIAFITGKPVPEPILLESSQLKELLQQLTPNQMQVVEEQVK..  | 105 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1   | CQQLGLRELITRYDALPIAKQGNL LLLAVSDPTLLQAEFEFRFATGLQVELALADHRAALQAAIRRLYGRSIIQGAANQGK. | 151 |
| NTDB id 1293 VP RS12240 WP 005479695.1        | CQQLGLRELITRHNALPLHRTPTLLAVADPTNQQAEDDFRATGLQVELVLADFRELSTAIRRLYGRSLSH EKSGLK.      | 151 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1     | CQQLGLRELITRHNALPLNRTSSTLILAVADPTNLQAEDDFRATGLQVELVLADFRELTAAIRRLYGRSLGQ EKSGLK.    | 151 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1     | PVNLVNEKLIKRRHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSEYVE   | 160 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1      | PKDLVDQKLILKHRILPLIQRGQILYVATSNPSPNIEAIDAIRFNSKLLVEPVIVEHHKLEKVLGQHFAEESSFD FNDE..  | 158 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1     | LKDKIDEKLIQKYRIMPLVHRGHVLYVATSNPNTNIEAMDIAIRFNSKLLKVEPIIVEHDKLERLLSEHFVEETHFNFDTE.. | 158 |
| consensus                                     | *** ***** **!* !***** * * *! ***** ! ** ** * * *                                    |     |

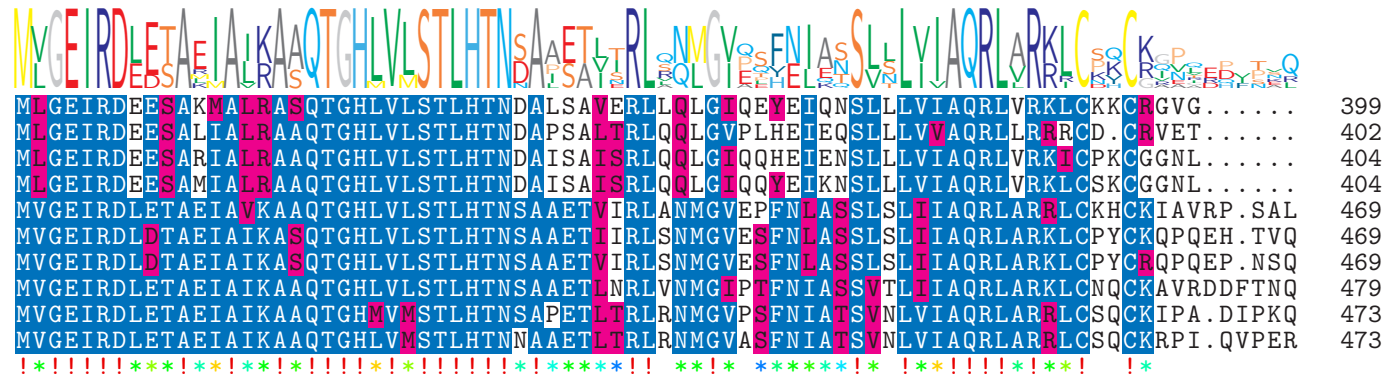
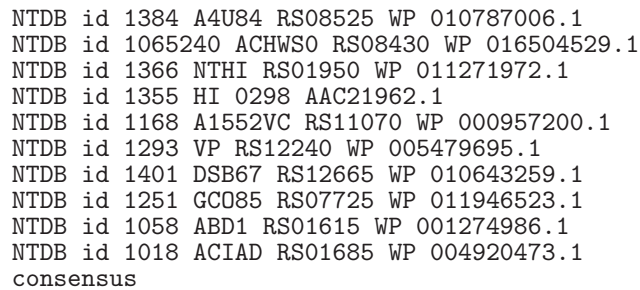
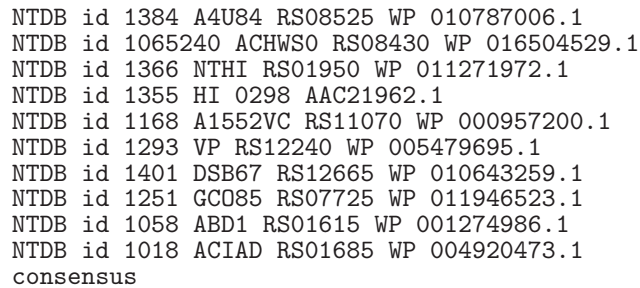
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|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----|
| NTDB id 1384 A4U84 RS08525 WP 010787006.1     | EIRQEE L A LVD T DQ I E T E D S D D S P V I R Y I N Q I L L D A L R K G A S D I H E P Y E K S Y R V R R D G V L R E Q Q P P S I | 165 |
| NTDB id 1065240 ACHWSO RS08430 WP 016504529.1 | .....LAFVE.QEQEQLNLDNPIIQLLDNLFKFC LAQNASDIHIEPRKQKLIIRLRIDGVLHLYKSLSIQL                                                        | 169 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1      | .....TVYQVAQLDSDSATDEPLIQLLDQVFERALQLQASDIHFEPQCHSLQVRFRIDGVLQVQPSFSGIL                                                         | 170 |
| NTDB id 1355 HI 0298 AAC21962.1               | .....FYQHQQETHFEQEDDEPVIRLLNQIFESALQKNASDIHLETLADQFQVRFRIDGVLQPPQLISKIF                                                         | 170 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1   | .....FYQHQQETHFEQEDDEPVIRLLNQIFESALQKNASDIHLETLADQFQVRFRIDGVLQPPQLISKIF                                                         | 230 |
| NTDB id 1293 VP RS12240 WP 005479695.1        | ..EISQDELANLVKVSDDDELQSIEDLSQDDSPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQPASHL                                              | 230 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1     | ..EINQEELASLVDVGADIDNIEDLSQDESPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQPASHL                                                | 230 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1     | ..EINQDELAGLVDIGEDIEINIEDLSQDESPVSRFINQVLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQQPASHL                                               | 239 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1      | DSGDLEGLAISAD.DEDQDIDTATSVTDDAPIVKFVNKILLDAIRQGASDIHFEPYERIRYRQDGLHEVATPPASL                                                    | 234 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1     | ..EFD...LDVNLDGPTAQEDEEAPQGDEAPIVKYINKLLIDAIRMGASDLHFEPYEKSYRVRVYRVDGVLRLQIANPPLQL                                              | 234 |
| consensus                                     | ..ELD...LDVEVDPHTTDDDDDEDDKLKDEAPIVKYINKLLIDAIRMSASDLHFEPYEKSYRVRVYRVDGVLRLIATPPLQL                                             | 234 |

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

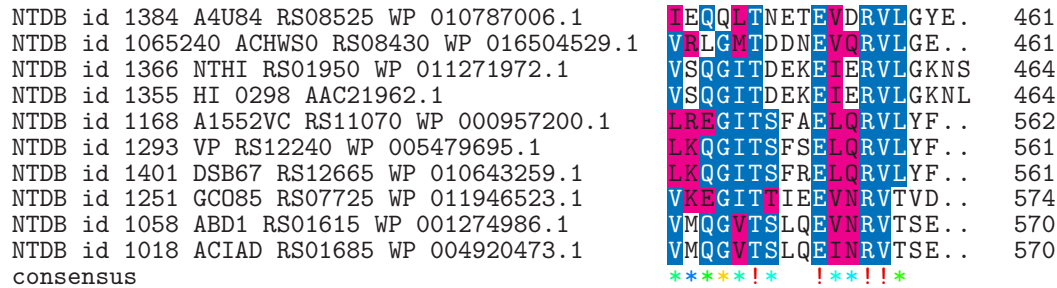
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NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

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- X non conserved
- X similar
- X  $\geq 50\%$  conserved