

logo

|               |           |                |   |    |
|---------------|-----------|----------------|---|----|
|               |           |                | MEALLEKIKKEYKLIYICTGLGLLVGGFFLLKPAPQTPVKETNLQAEVVAVSKDLYSEKEVSKKEEKSEPL |    |
| NTDB id 1159  | ABDM36    | RS04765        | WP 001166105.1  | 0  |
| NTDB id 1150  | A1552VC   | RS08580        | WP 001166105.1  | 0  |
| NTDB id 1395  | DSB67     | RS04445        | WP 010649155.1  | 0  |
| NTDB id 1362  | HI 1008   | AAC22669.1     |   | 0  |
| NTDB id 1382  | A4U84     | RS07375        | WP 062924234.1  | 0  |
| NTDB id 595   | KW2       | RS08725        | WP 021037687.1  | 65 |
| NTDB id 521   | SMSK321   | RS04960        | WP 000443804.1  | 69 |
| NTDB id 493   | SM12261   | RS04300        | WP 000387351.1  | 69 |
| NTDB id 263   | KZH43     | RS04195        | WP 000387330.1  | 69 |
| NTDB id 222   | SPD       | RS04535        | WP 000387330.1  | 69 |
| NTDB id 188   | SPR       | RS04295        | WP 000387330.1  | 69 |
| NTDB id 153   | SP        | RS04730        | WP 000387344.1  | 69 |
| NTDB id 1069  | ABD1      | RS03060        | WP 043960841.1  | 0  |
| NTDB id 1041  | HON27     | RS14740        | WP 005124713.1  | 0  |
| NTDB id 36    | MW        | RS08230        | WP 001793467.1  | 80 |
| NTDB id 20    | SA        | RS08005        | WP 001802022.1  | 80 |
| NTDB id 105   | BSU 25590 | NP 390437.1    |   | 57 |
| NTDB id 1014  | ACIAD     | RS13855        | WP 004924483.1  | 0  |
| NTDB id 1127  | NGFG      | RS10560        | WP 003703428.1  | 5  |
| NTDB id 1126  | NGFG      | RS09375        | WP 003703428.1  | 5  |
| NTDB id 1125  | NGFG      | RS07215        | WP 003703428.1  | 5  |
| NTDB id 1108  | NGFG      | RS06525        | WP 003703428.1  | 5  |
| NTDB id 35538 | A911      | RS00050        | WP 002855574.1  | 0  |
| NTDB id 1242  | Cj0011c   | YP 002343483.1 |   | 0  |
| consensus     |           |                |   |    |

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|               |           |                |                |     |   |  |
|---------------|-----------|----------------|----------------|-----|---|--|
|               |           |                |                |     | EQDLITVDYKGAVKSPGKPGYDITYSRVNDKLYLFCMLLQAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEAV      |  |
| NTDB id 1159  | ABDM36    | RS04765        | WP 001166105.1 | 33  | .....MQIKTKIVTIFLSLCLPTLPLLANAEEETAPAAQ.....                                    |  |
| NTDB id 1150  | A1552VC   | RS08580        | WP 001166105.1 | 33  | .....MQIKTKIVTIFLSLCLPTLPLLANAEEETAPAAQ.....                                    |  |
| NTDB id 1395  | DSB67     | RS04445        | WP 010649155.1 | 25  | .....MKWMLTLCLLILAPMSWAE.TKTKAD.....  |  |
| NTDB id 1362  | HI 1008   | AAC22669.1     |                | 38  | .....MKT.L.FTSVVLGALVSSSF AEEKATXQTAQSVV.....TTQA.....                          |  |
| NTDB id 1382  | A4U84     | RS07375        | WP 062924234.1 | 39  | .....MKK.LSRYTFSLLFG.LFSATTF AEEKVTTSTEHTPV.....VMQQ.....                       |  |
| NTDB id 595   | KW2       | RS08725        | WP 021037687.1 | 133 | NKNEIMVDLKGAVAKPNVYQISSDERLVDLI.....RQAGGFTDQADQKSINLSAKLKDEEVIYVPKVGESS        |  |
| NTDB id 521   | SMSK321   | RS04960        | WP 000443804.1 | 137 | EQDLITVDVKGAVKSPGIYDLSVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA        |  |
| NTDB id 493   | SM12261   | RS04300        | WP 000387351.1 | 137 | EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA        |  |
| NTDB id 263   | KZH43     | RS04195        | WP 000387330.1 | 137 | EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA        |  |
| NTDB id 222   | SPD       | RS04535        | WP 000387330.1 | 137 | EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA        |  |
| NTDB id 188   | SPR       | RS04295        | WP 000387330.1 | 137 | EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA        |  |
| NTDB id 153   | SP        | RS04730        | WP 000387344.1 | 137 | EQDLITVDVKGAVKSPGIYDLPVGSRVNDV.....QKAGGLTEQADSKSLNLAQKVSDEALVYVPTKGEESA        |  |
| NTDB id 1069  | ABD1      | RS03060        | WP 043960841.1 | 49  | .....MQYSMRFWKN.....K.YFVLIMLCLGVISPSVCAQSFQDNFQEWKVKQQM.YDQK.....              |  |
| NTDB id 1041  | HON27     | RS14740        | WP 005124713.1 | 49  | .....MQYSMRFWKN.....K.YFLLIMLCLGVISPSVCAQSFQDNFQEWKAKQQM.YDQK.....              |  |
| NTDB id 36    | MW        | RS08230        | WP 001793467.1 | 147 | NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQKMFIPHKGQKNV         |  |
| NTDB id 20    | SA        | RS08005        | WP 001802022.1 | 147 | NKGPVYVDVKGAVKHPNVYKMTSKDRVVD.LL.....DKAQLLEDADVSRINLSEKLTQKMFIPHKGQKNV         |  |
| NTDB id 105   | BSU 25590 | NP 390437.1    |                | 125 | SNETIVIDIKGAVQHPGVYEM.RTGDRVS.....QAI.....EKAGGTSEQADEAQVNLAELIQDGTVVYIPKKGEETA |  |
| NTDB id 1014  | ACIAD     | RS13855        | WP 004924483.1 | 45  | .....MSIRHFFT.....FFWAT.....LLTLFSMQI.....VFAQGFDDQYDQAW.....KTQQKAHDTR         |  |
| NTDB id 1127  | NGFG      | RS10560        | WP 003703428.1 | 44  | ATPYRFLLRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....                                     |  |
| NTDB id 1126  | NGFG      | RS09375        | WP 003703428.1 | 44  | ATPYRFLLRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....                                     |  |
| NTDB id 1125  | NGFG      | RS07215        | WP 003703428.1 | 44  | ATPYRFLLRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....                                     |  |
| NTDB id 1108  | NGFG      | RS06525        | WP 003703428.1 | 44  | ATPYRFLLRHIVARCGLLFATLKGKTMKKMFVLFCLMF.....                                     |  |
| NTDB id 35538 | A911      | RS00050        | WP 002855574.1 | 10  | .....MKKLLFLF..FA.....  |  |
| NTDB id 1242  | Cj0011c   | YP 002343483.1 |                | 10  | .....MKKLLFLF..FA.....  |  |
| consensus     |           |                |                |     | * * * * * * *   |  |



 non conserved  
 similar  
  $\geq 50\%$  conserved