

|                |                                |                                                                                       |    |
|----------------|--------------------------------|---------------------------------------------------------------------------------------|----|
| NTDB id 1029   | TT RS02230 WP 011228203.1      | .....MPVYQYKARDRQGRLVEATIEAEDLRTAARLLRDRGLFVAEIKPEPKGLQA EVRIPALERGPGLK               | 65 |
| NTDB id 1402   | DSB67 RS12670 WP 010643257.1   | .MKT.....IAPQLKNYRWKGINS SGKK.TSGNVLAMTEIEVRERLDAQHIKIKKLKKSISFI....TKISHRVK GK       | 67 |
| NTDB id 1169   | A1552VC RS11075 WP 000648511.1 | MKAT.....QTLP LKNYRWKGINSNGKK.VSQMLAISEIEVRDKLKDQHIIQIKKLKKS SVSLL....ARLTRHV KSK     | 68 |
| NTDB id 1112   | NGFG RS09215 WP 003689811.1    | .MAKNGGFSLF AKKEKR FIFEGRH SASDKLVN GEVS AFTEE EARKKLAKRGIRPLQ ITRVK.....TSSK RKITQE  | 70 |
| NTDB id 1113   | AAA85695.1 219..1451( )        | .MAKNGGFSLF AKKEKR FIFEGRH SASDKLVN GEVS AFTEE EARKKLAKRGIRPLQ ITRVK.....TSSK RKITQE  | 70 |
| NTDB id 1252   | GCO85 RS07730 WP 011213805.1   | .MDK.....NSPPLLTFHYQGINKAGQK.MEGDIQARSLATAKADLRKQGIVTNKV VKKRKPLFD....RKNKKITQA       | 67 |
| NTDB id 132431 | OY18 RS12560 WP 010894959.1    | .....MTSFLWEGT DKRGVK.IKGEQTARTANLLRAELRRQGITPLVVKPRPKPLF....GQAGKRITPK               | 60 |
| NTDB id 1198   | PSJM300 03950 AFN76868.1       | .MAQ.....KA IKN SVFTWEGLDRQGAK.IKGELS GVPALVKAQLRKQGIN PQK VRKKSISLFS....AGKKIKPM     | 66 |
| NTDB id 1016   | ACIAD RS01680 WP 004920476.1   | MAAK.....KTQVM PVFAYEGV DRKG IK.LKGELPARNMALAKVT LRKQGITT RTIREKRKNIFE....GLLKKKV KPL | 69 |
| NTDB id 1059   | ABD1 RS01610 WP 000279215.1    | MAVK.....KAQM MPTFAYEGV DRKG VK.IKGELPAKNMALAKVT LRKQGVTVRNIREKRKNILE....GLFKKKV TTL  | 69 |
| consensus      |                                | **** * * * **** * * * !***** ***** *                                                  |    |

|           |    |        |            |           |            |             |                                   |                                |                      |                     |                    |              |     |
|-----------|----|--------|------------|-----------|------------|-------------|-----------------------------------|--------------------------------|----------------------|---------------------|--------------------|--------------|-----|
| NTDB      | id | 1029   | TT         | RS02230   | WP         | 011228203.1 | DLAIFSRQLATMILGAGLITLLQALAILERQTE | NRKFRREILKQVRTDVEGGMAFSEALSKHK | .IFSR                | LYVNLVR             | AGETSGGL           | 144          |     |
| NTDB      | id | 1402   | DSB67      | RS12670   | WP         | 010643257.1 | DITIFTRQIATMLMTGVP                | IVQALKLVSENHKKAE               | MKSILMSV             | TRAVEAGTPMSKAM      | RRTASTHFDPLYTDLIAT | GEQSGNL      | 147 |
| NTDB      | id | 1169   | A1552VC    | RS11075   | WP         | 000648511.1 | DITILTRQLATMLTITGVP               | IVQALKLVGDNHRKAE               | MKSILAQITKS          | VEAGTPLSKAM         | RRTASAHFDTLYV      | DLVETGEMSGNL | 148 |
| NTDB      | id | 1112   | NGFG       | RS09215   | WP         | 003689811.1 | DITVTRQLSTMIIKAGLPLMQAFEIVARGHG   | NPSMTEMLMEIRGQVEQGS            | SLSR                 | AFSNHPKYFDRFYCNL    | VAAGETGGVL         | 150          |     |
| NTDB      | id | 1113   | AAA85695.1 | 219..1451 | ( )        |             | DITVTRQLSTMIIKAGLPLMQAFEIVARGHG   | NPSMTEMLMEIRGQVEQGS            | SLSR                 | AFSNHPKYFDRFYCNL    | VAAGETGGVL         | 150          |     |
| NTDB      | id | 1252   | GC085      | RS07730   | WP         | 011213805.1 | DITVFSRQLATMIESGIPLVQAFDIVAKQGS   | NKRLKDLTETIKHDIETGLTLAESLI     | KHPLYFNELFCNLV       | DAGEKSGSL           | 147                |              |     |
| NTDB      | id | 132431 | OY18       | RS12560   | WP         | 010894959.1 | DIAFFSRQMATMMKAGVPIVGALDILANGQK   | NPRMRTMVNQIKNDIEGGS            | SLYESISKHPVYFDELYRNL | VRAGERAGVL          | 140                |              |     |
| NTDB      | id | 1198   | PSJM300    | 03950     | AFN76868.1 |             | DIALFTRQMATMMKAGVPL               | LQSFDIIGEGFDNPNMRKLVDD         | LKQEVAAAGNSF         | ASSLRKKPQYFDDLYCNLV | DSGEQSGSL          | 146          |     |
| NTDB      | id | 1016   | ACIAD      | RS01680   | WP         | 004920476.1 | DIAIFTRQLATMMKAGVPLVQAFEIVAE      | GLENPAMRDVVGLGKNEVEGGNT        | FAGALRKYPQYFDNL      | FCSLTESGEQSGSL      | 149                |              |     |
| NTDB      | id | 1059   | ABD1       | RS01610   | WP         | 000279215.1 | DITIFTRQLATMMKAGVPLVQGEIVAE       | GLENPAMREVVVLGKIGVEGGST        | FASALRKYPQHFDNL      | FCSLVESGEQSGAL      | 149                |              |     |
| consensus |    |        |            |           |            |             | !!*****!!**!!****!!*****!!*****!! | **                             | *****!!              | **                  | *****!!            | !!           |     |

[illegible]

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NTDB id 1029 TT RS02230 WP 011228203.1
NTDB id 1402 DSB67 RS12670 WP 010643257.1
NTDB id 1169 A1552VC RS11075 WP 000648511.1
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NTDB id 1113 AAA85695.1 219..1451( )
NTDB id 1252 GC085 RS07730 WP 011213805.1
NTDB id 132431 OY18 RS12560 WP 010894959.1
NTDB id 1198 PSJM300 03950 AFN76868.1
NTDB id 1016 ACIAD RS01680 WP 004920476.1
NTDB id 1059 ABD1 RS01610 WP 000279215.1
consensus

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