

logo

|                                             |                                                                                  |    |
|---------------------------------------------|----------------------------------------------------------------------------------|----|
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEEKISLLQYIVKNKILSAEQIALTAQNFQVPMLDINCLDVGTI | 80 |
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | .....                                                                            | 0  |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | .....                                                                            | 0  |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | .....                                                                            | 0  |
| NTDB id 268544 C2R13 RS16050 WP 001326494.1 | .....                                                                            | 0  |
| NTDB id 1307 DR RS10055 WP 010888596.1      | .....                                                                            | 0  |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | .....                                                                            | 0  |
| NTDB id 1116 NGFG RS10615 WP 003690200.1    | .....                                                                            | 0  |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1   | .....                                                                            | 0  |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1 | .....                                                                            | 0  |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | .....                                                                            | 0  |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | .....                                                                            | 0  |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1   | .....                                                                            | 0  |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | .....                                                                            | 0  |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | .....                                                                            | 0  |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | .....                                                                            | 0  |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | .....                                                                            | 0  |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | .....                                                                            | 0  |
| consensus                                   |                                                                                  |    |

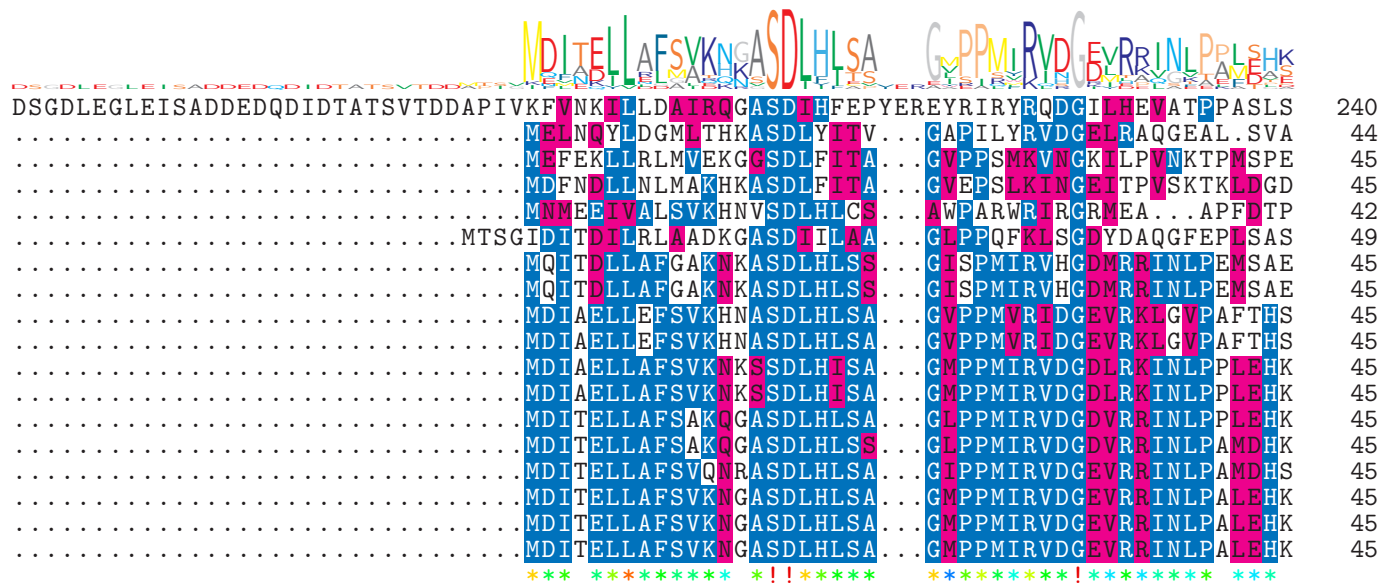
logo

|                                             |                                                                                   |     |
|---------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | PVNLVNEKLIKRIHAMVPLFSRGTNLYLATDDPSKQASLKEIQFHTGLNTHAIVVETDKLSALIDNLLTAKESQGLSEYVE | 160 |
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | .....                                                                             | 0   |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | .....                                                                             | 0   |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | .....                                                                             | 0   |
| NTDB id 268544 C2R13 RS16050 WP 001326494.1 | .....                                                                             | 0   |
| NTDB id 1307 DR RS10055 WP 010888596.1      | .....                                                                             | 0   |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | .....                                                                             | 0   |
| NTDB id 1116 NGFG RS10615 WP 003690200.1    | .....                                                                             | 0   |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1   | .....                                                                             | 0   |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1 | .....                                                                             | 0   |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | .....                                                                             | 0   |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | .....                                                                             | 0   |
| NTDB id 1194 PAKAF RS01995 WP 003084552.1   | .....                                                                             | 0   |
| NTDB id 1202 PSJM300 01600 AFN76400.1       | .....                                                                             | 0   |
| NTDB id 1020 ACIAD RS04210 WP 011182164.1   | .....                                                                             | 0   |
| NTDB id 1081 FDQ49 RS05335 WP 006581387.1   | .....                                                                             | 0   |
| NTDB id 1060 ABD1 RS04380 WP 000355489.1    | .....                                                                             | 0   |
| NTDB id 1040 HON27 RS13360 WP 000355489.1   | .....                                                                             | 0   |
| consensus                                   |                                                                                   |     |

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consensus

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|-----------|--------|---------|---------|------------|-------------|
| NTDB id   | 1251   | GC085   | RS07725 | WP         | 011946523.1 |
| NTDB id   | 1177   | A1552VC | RS01165 | WP         | 000422572.1 |
| NTDB id   | 1203   | PSJM300 | 01605   | AFN76401.1 |             |
| NTDB id   | 1019   | ACIAD   | RS04205 | WP         | 004922051.1 |
| NTDB id   | 268544 | C2R13   | RS16050 | WP         | 001326494.1 |
| NTDB id   | 1307   | DR      | RS10055 | WP         | 010888596.1 |
| NTDB id   | 1086   | NMV     | RS00245 | WP         | 002218487.1 |
| NTDB id   | 1116   | NGFG    | RS10615 | WP         | 003690200.1 |
| NTDB id   | 1185   | GTF74   | RS11940 | WP         | 000350195.1 |
| NTDB id   | 1176   | A1552VC | RS01160 | WP         | 000350195.1 |
| NTDB id   | 1283   | ACE17W  | RS02630 | WP         | 010947729.1 |
| NTDB id   | 1259   | GC085   | RS10305 | WP         | 010947729.1 |
| NTDB id   | 1194   | PAKAF   | RS01995 | WP         | 003084552.1 |
| NTDB id   | 1202   | PSJM300 | 01600   | AFN76400.1 |             |
| NTDB id   | 1020   | ACIAD   | RS04210 | WP         | 011182164.1 |
| NTDB id   | 1081   | FDQ49   | RS05335 | WP         | 006581387.1 |
| NTDB id   | 1060   | ABD1    | RS04380 | WP         | 000355489.1 |
| NTDB id   | 1040   | HON27   | RS13360 | WP         | 000355489.1 |
| consensus |        |         |         |            |             |

|                                                                                  |     |
|----------------------------------------------------------------------------------|-----|
| KAVRDDFTNQGLIELGFKEADLVNLKLYKAVGCEQCTSGYRGRVGLFEVLPMTKELGQLIMSGGNS..LDILKLAQSEGM | 547 |
| .....DKNKGRHGVEVLNSPRIADLIRRGELHELKATMARSQEVGM                                   | 312 |
| .....TPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLCGM                               | 314 |
| .....THDQSSRRAAVEVLINTPLLSDYIRQGEITYKIKELMARSQELGM                               | 315 |
| .....D.KQEGRVALFELLINTPAVGNLIREGKTHQLPHVIQTGQQVGM                                | 310 |
| .....RADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGM                                | 318 |
| .....THDGNGRVASHEILIANPAVRNLIRENKITTQINSVLQTGQASGM                               | 314 |
| .....THDGNGRVASHEILIANPAVRNLIRENKITTQINSVLQTGQASGM                               | 314 |
| .....R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM                                | 313 |
| .....R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM                                | 313 |
| .....K.NKGG RVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQAKGM                               | 313 |
| .....K.NKGG RVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQAKGM                               | 313 |
| .....K.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGS LGM                               | 313 |
| .....K.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGS LGM                               | 313 |
| .....K.EGGGRVAAHEIMIGTPAIRNLIREGKVAQMYSIIQTGATHGM                                | 313 |
| .....K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGANHGM                                | 313 |
| .....K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGANHGM                                | 313 |
| .....K.NGGGRVAAHEIMIGIPAIRNLIRENKVAQMYSIIQTGANHGM                                | 313 |
| * **!*!!!!!!*****!!!!* **** * * * *                                              |     |

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|           |        |         |         |            |             |
|-----------|--------|---------|---------|------------|-------------|
| NTDB id   | 1251   | GC085   | RS07725 | WP         | 011946523.1 |
| NTDB id   | 1177   | A1552VC | RS01165 | WP         | 000422572.1 |
| NTDB id   | 1203   | PSJM300 | 01605   | AFN76401.1 |             |
| NTDB id   | 1019   | ACIAD   | RS04205 | WP         | 004922051.1 |
| NTDB id   | 268544 | C2R13   | RS16050 | WP         | 001326494.1 |
| NTDB id   | 1307   | DR      | RS10055 | WP         | 010888596.1 |
| NTDB id   | 1086   | NMV     | RS00245 | WP         | 002218487.1 |
| NTDB id   | 1116   | NGFG    | RS10615 | WP         | 003690200.1 |
| NTDB id   | 1185   | GTF74   | RS11940 | WP         | 000350195.1 |
| NTDB id   | 1176   | A1552VC | RS01160 | WP         | 000350195.1 |
| NTDB id   | 1283   | ACE17W  | RS02630 | WP         | 010947729.1 |
| NTDB id   | 1259   | GC085   | RS10305 | WP         | 010947729.1 |
| NTDB id   | 1194   | PAKAF   | RS01995 | WP         | 003084552.1 |
| NTDB id   | 1202   | PSJM300 | 01600   | AFN76400.1 |             |
| NTDB id   | 1020   | ACIAD   | RS04210 | WP         | 011182164.1 |
| NTDB id   | 1081   | FDQ49   | RS05335 | WP         | 006581387.1 |
| NTDB id   | 1060   | ABD1    | RS04380 | WP         | 000355489.1 |
| NTDB id   | 1040   | HON27   | RS13360 | WP         | 000355489.1 |
| consensus |        |         |         |            |             |

|                                                                                 |     |
|---------------------------------------------------------------------------------|-----|
| LTIFQSGIEKVKEGITITIEEVNRVTVD.....                                               | 574 |
| QTFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....            | 368 |
| QTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....   | 381 |
| QTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRRERMSEMER.....KMTFDGQRRNLK....  | 383 |
| ITFQQSYQHRVGEGRL.....                                                           | 326 |
| VTMDAYLAGLFRHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA | 394 |
| QTMDDQLQSLVRQGLIAPEVARRRAQNSESMSF.....                                          | 347 |
| QTMDDQLQSLVRQGLIAPEAARRRAQNSESMSF.....                                          | 347 |
| QTMEQNAKQLIARGVVDAQEVQSKI ELDLKA F.....                                         | 345 |
| QTMEQNAKQLIARGVVDAQEVQSKI ELDLKA F.....                                         | 345 |
| QTLDQHLTELNVNKNIISKHTAHEAALN.KSLF.....                                          | 344 |
| QTLDQHLTELNVNKNIISKHTAHEAALN.KSLF.....                                          | 344 |
| QTLDMCLKGLVAKGLISRENAREKAKI.PENF.....                                           | 344 |
| QTLDSCLKGLLAKGLISRDSAKEKAKQ.PENF.....                                           | 344 |
| TTLDDQLKQLLAKGIINLPTARAVAKS.PESF.....                                           | 344 |
| TTLDDQLKGLVSRGVISPQTARTAAKQ.PESFL.....                                          | 345 |
| TTLDDQLKGLVARGVISPQTARTAAKQ.PESFL.....                                          | 345 |
| TTLDDQLKGLVARGVISPQTARTAAKQ.PESFL.....                                          | 345 |
| *!*** * ** * * * *                                                              |     |

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|                                             |                         |     |
|---------------------------------------------|-------------------------|-----|
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                   | 574 |
| NTDB id 1177 A1552VC RS01165 WP 000422572.1 | .....                   | 368 |
| NTDB id 1203 PSJM300 01605 AFN76401.1       | .....                   | 381 |
| NTDB id 1019 ACIAD RS04205 WP 004922051.1   | .....                   | 383 |
| NTDB id 268544 C2R13 RS16050 WP 001326494.1 | .....                   | 326 |
| NTDB id 1307 DR RS10055 WP 010888596.1      | APATPAAPAAGRSEPGRAGGFGR | 418 |
| NTDB id 1086 NMV RS00245 WP 002218487.1     | .....                   | 347 |
| NTDB id 1116 NGFG RS10615 WP 003690200.1    | .....                   | 347 |
| NTDB id 1185 GTF74 RS11940 WP 000350195.1   | .....                   | 345 |
| NTDB id 1176 A1552VC RS01160 WP 000350195.1 | .....                   | 345 |
| NTDB id 1283 ACE17W RS02630 WP 010947729.1  | .....                   | 344 |
| NTDB id 1259 GC085 RS10305 WP 010947729.1   | .....                   | 344 |
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| NTDB id 1040 HON27 RS13360 WP 000355489.1   | .....                   | 345 |
| consensus                                   |                         |     |

-  non conserved
-  similar
-  ≥ 50% conserved