

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 374883 FOZ67 RS04180 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                                   |                                                                                  |    |

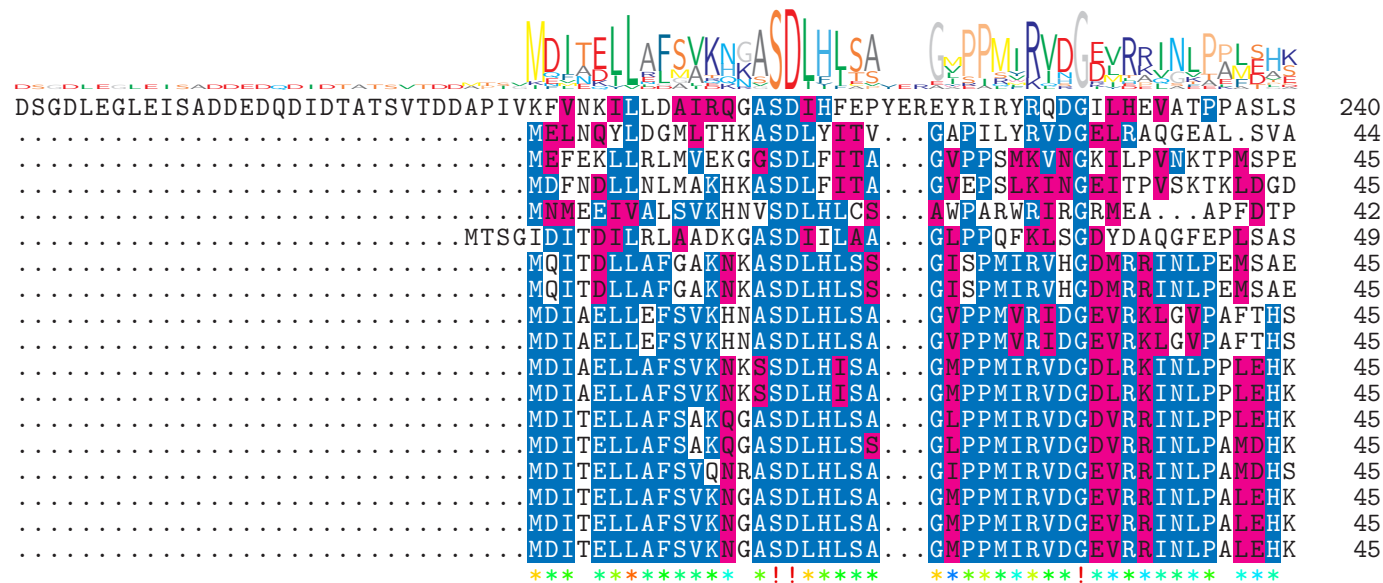
logo

|                                             |                                                                                   |     |
|---------------------------------------------|-----------------------------------------------------------------------------------|-----|
| 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 374883 FOZ67 RS04180 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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NTDB id 1040 HON27 RS13360 WP 000355489.1
consensus

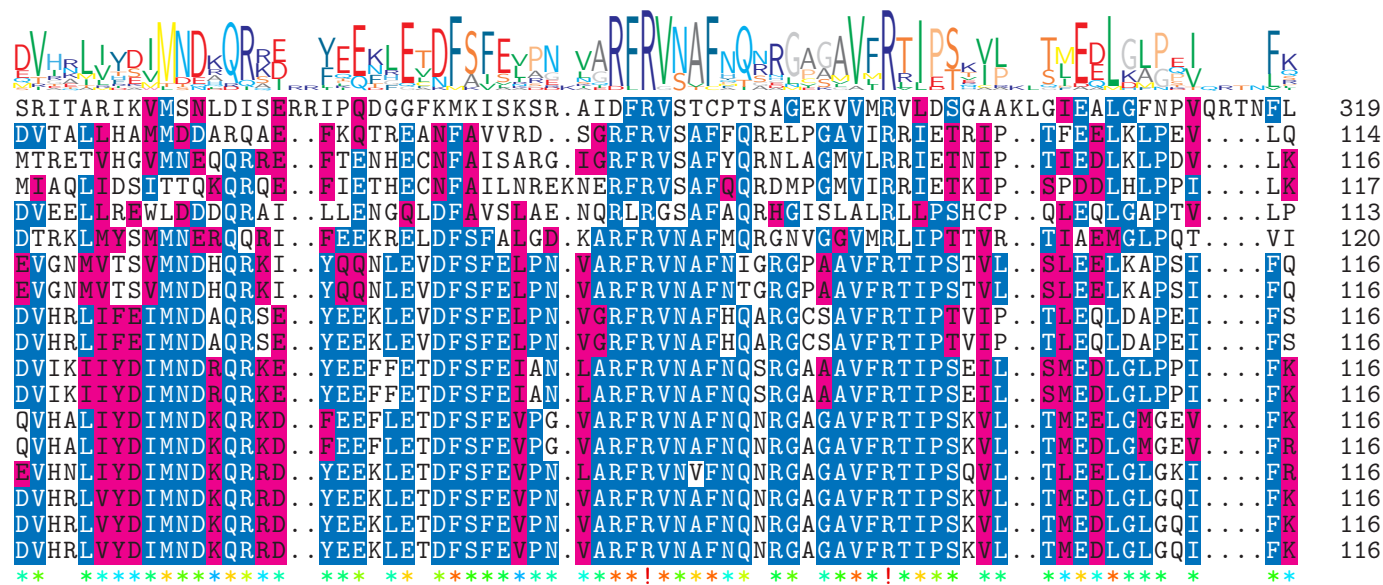
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consensus

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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   | 374883 | FOZ67   | RS04180 | 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 |
| .....DKNKGRHGVEVLNLSPRIADLIRRGELHELKATMARSQEVGM                                  | 312 |
| .....TPDGKGRRAVIEVLINTPLAADLIRKGEVHELKGLMKRSTDLCGM                               | 314 |
| .....THDQSSRRAAVEVLINTPLLSDYIRQGEITYKIKELMARSQELGM                               | 315 |
| .....D.KQECRVALFELLINTPAVGNLIREGKTHQLPHVIQTGQQVGM                                | 310 |
| .....RADGQGRVLAYEILLANPAVRALIREGKTFQITSVMQTGAREGM                                | 318 |
| .....THDGNGRVASHEILIANPAVRNLIRENKITTQINSVLQTGGQASGM                              | 314 |
| .....THDGNGRVASHEILIANPAVRNLIRENKITTQINSVLQTGGQASGM                              | 314 |
| .....R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM                                | 313 |
| .....R.VGGGRVACHEIMLATPAIRNLIREDKVAQMYSIIQTGAAHGM                                | 313 |
| .....K.NKGG RVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQAKGM                               | 313 |
| .....K.NKGG RVAALEIMMCTGAIRNLIREDKIAQMYSIIQTGQAKGM                               | 313 |
| .....K.IGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGSLSGM                               | 313 |
| .....K.VGGGRVAAHEIMIGTPAIRNLIREDKVAQMYSIIQTGGSLSGM                               | 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 |
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| NTDB id   | 1203   | PSJM300 | 01605   | AFN76401.1 |             |
| NTDB id   | 1019   | ACIAD   | RS04205 | WP         | 004922051.1 |
| NTDB id   | 374883 | FOZ67   | RS04180 | 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 |
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| 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 |
| QTFDQALYQLVVDKIKSEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....            | 368 |
| QTFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR....    | 381 |
| QTFDQALFDLYDHQHISYADALKHADSPNNLRLQIKLSEEANKPLDNRRERMSEMER.....KMTFDGQRRNLK....   | 383 |
| ITFQQSYQHRVGEGRLL.....                                                           | 326 |
| VTMDAYLAGLFRHHLITYDKGLERAID.PKEFARLA..NDASAGL.GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAA | 394 |
| QTMDDQLQSLVRQGLIAPEVARRRAQNSESMSF.....                                           | 347 |
| QTMDDQLQSLVRQGLIAPEAARRRAQNSESMSF.....                                           | 347 |
| QTMEQNAKQLIARGVVDQAEVQSKIELDLKAF.....                                            | 345 |
| QTMEQNAKQLIARGVVDQAEVQSKIELDLKAF.....                                            | 345 |
| QTLDDQLTELNVNKNIISKHTAHEAALN.KSLF.....                                           | 344 |
| QTLDDQLTELNVNKNIISKHTAHEAALN.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 374883 FOZ67 RS04180 WP 001326494.1 | .....                    | 326 |
| NTDB id 1307 DR RS10055 WP 010888596.1      | APATPAAPAAGRSEPGRAGGFGRR | 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 |
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| NTDB id 1040 HON27 RS13360 WP 000355489.1   | .....                    | 345 |
| consensus                                   |                          |     |

-  non conserved
-  similar
-  ≥ 50% conserved