

logo

|                                             |  |                                                                                      |    |
|---------------------------------------------|--|--------------------------------------------------------------------------------------|----|
|                                             |  | MSXLSIGDRRLGAALLDQGYLGDNDLQRALERHSEVGGRLAELVLYDSGGYSEERRIAEAEIESEFGLPLVNLHSEVETSPKXK |    |
| NTDB id 1410 SGL RS13950 WP 010873519.1     |  | .....                                                                                | 0  |
| NTDB id 1306 DR RS10060 WP 027479822.1      |  | .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL     | 79 |
| NTDB id 1028 TT RS08215 WP 011173991.1      |  | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPVKV     | 80 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 |  | .....                                                                                | 0  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   |  | .....                                                                                | 0  |
| NTDB id 407320 GPY27 RS02140 WP 140094612.1 |  | .....                                                                                | 0  |
| NTDB id 1293 VP RS12240 WP 005479695.1      |  | .....                                                                                | 0  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    |  | .....                                                                                | 0  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   |  | .....                                                                                | 0  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    |  | .....                                                                                | 0  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   |  | .....                                                                                | 0  |
| consensus                                   |  |                                                                                      |    |

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|                                             |  | SLTPAEKAKELRAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPVPP..P |     |
| NTDB id 1410 SGL RS13950 WP 010873519.1     |  | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGA | 0   |
| NTDB id 1306 DR RS10060 WP 027479822.1      |  | ALLPAEKAKELKAIPFALDEEAGVVRVAFLNPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPVPP..P | 157 |
| NTDB id 1028 TT RS08215 WP 011173991.1      |  | .....                                                                            | 158 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 |  | .....                                                                            | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   |  | .....                                                                            | 0   |
| NTDB id 407320 GPY27 RS02140 WP 140094612.1 |  | .....                                                                            | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      |  | .....                                                                            | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    |  | .....                                                                            | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   |  | .....                                                                            | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    |  | .....                                                                            | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   |  | .....                                                                            | 0   |
| consensus                                   |  |                                                                                  |     |

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|---------------------------------------------|--|---------------------------------------------------------------------------------|-----|
|                                             |  | SDAGRTGGKLGERLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVL |     |
| NTDB id 1410 SGL RS13950 WP 010873519.1     |  | SGEGQKDLKLGELLQKGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA | 0   |
| NTDB id 1306 DR RS10060 WP 027479822.1      |  | .....                                                                           | 237 |
| NTDB id 1028 TT RS08215 WP 011173991.1      |  | .....                                                                           | 237 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 |  | .....                                                                           | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   |  | .....                                                                           | 0   |
| NTDB id 407320 GPY27 RS02140 WP 140094612.1 |  | .....                                                                           | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      |  | .....                                                                           | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    |  | .....                                                                           | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   |  | .....                                                                           | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    |  | .....                                                                           | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   |  | .....                                                                           | 0   |
| consensus                                   |  |                                                                                 |     |

|                                             |                                                                                    |     |
|---------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | .....MTS                                                                           | 3   |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GSMLRADALRL LAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYFQGRGLGEQLVQEGTLSR  | 317 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | LLLLRSDALRYGAVPIGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYALALPQAWHEELFRRAYPQKNRLGEVLVQEGKLSR | 317 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                                                              | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                                                              | 0   |
| NTDB id 407320 GPY27 RS02140 WP 140094612.1 | .....                                                                              | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                                                              | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                                                              | 0   |
| NTDB id 1251 GCD85 RS07725 WP 011946523.1   | .....                                                                              | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                              | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                              | 0   |
| consensus                                   |                                                                                    |     |

|           |    |        |         |         |    |             |                            |                                                      |                                                 |                               |       |
|-----------|----|--------|---------|---------|----|-------------|----------------------------|------------------------------------------------------|-------------------------------------------------|-------------------------------|-------|
| NTDB      | id | 1410   | SGL     | RS13950 | WP | 010873519.1 | SSSSKKSRVAVALRNYFSPFGNKL   | VAGCHVDAEQ                                           | LQRQALVQVKKTGRSLPEELKAVTGREL                    | LSPELLRQYKKNQLFELKVLY         | 83    |
| NTDB      | id | 1306   | DR      | RS10060 | WP | 027479822.1 | DQLREALQVQAREGKVKPLGEVITEL | GFA SPDEVD                                           | SALQKQNVGGGRLEDTLVQ..SGKLSPEMLARS.....LAAQL     | 388                           |       |
| NTDB      | id | 1028   | TT      | RS08215 | WP | 011173991.1 | EALKEALEVQKGLPRAKPLGETLVEL | GIARPEDVBEALQKQBRGGGRLEDTLVQ..SGKLRPEALAQA.....VATQL | 388                                             |                               |       |
| NTDB      | id | 1168   | A1552VC | RS11070 | WP | 000957200.1 | .....MLTNL                 | NVAILRQAE                                            | LISATQE QAVVTQVSASGTSVP                         | EAALLE.LSIFHAQELTEQ.....LSHIF | 57    |
| NTDB      | id | 1401   | DSB67   | RS12665 | WP | 010643259.1 | .....MLTNL                 | STVLRQACILTF                                         | SQEESLIEQVKASCISMEALLS..SGFFSHELTEH.....LSSVF   | 57                            |       |
| NTDB      | id | 407320 | GPY27   | RS02140 | WP | 140094612.1 | .....MHTNL                 | STILRQKGILLTF                                        | SQEESLIEQVKASCISMEALLS..SGFFTSENELAEH.....LSSMF | 57                            |       |
| NTDB      | id | 1293   | VP      | RS12240 | WP | 005479695.1 | .....MHSNL                 | STILRQKGILLTF                                        | SQEESLIEQVKASCISMEALLS..SGFFTSSSELAEH.....LSSIF | 57                            |       |
| NTDB      | id | 1110   | NGFG    | RS09235 | WP | 003689817.1 | .....MSVG                  | LLRLVQNQVVTV                                         | EQAEHY..NESQAGKEVLPMLFS..DGVISP                 | KSLAAL.....IARVF              | 56    |
| NTDB      | id | 1251   | GC085   | RS07725 | WP | 011946523.1 | .....MALATEE               | YRLQGIGQLLVLEKLLDKTKAIELHLKAAA                       | EKISLLQYIVK..NKILSAEQIALT.....AAQNF             | 65                            |       |
| NTDB      | id | 1058   | ABD1    | RS01615 | WP | 001274986.1 | .....MSALHT                | SPKFTGFFRRLVEEKHVS                                   | AATMQTALDAAKRAKQDTVAYLIE..EVHLSPSL              | LAET.....ISAEF                | 65    |
| NTDB      | id | 1018   | ACIAD   | RS01685 | WP | 004920473.1 | .....MSAFTTPPKFS           | GFIRRLVEEGYVNAQMMALEKAKKF                            | KQDTIPVYLID..NFSISPLTIAEI.....ISLEF             | 65                            |       |
| consensus |    |        |         |         |    |             | * * *                      | * * *                                                | * * *                                           | * * *                         | * * * |

|                                             |                                                                                    |     |
|---------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | GVDSDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPSPVLVAMVDPDNLAQDELNRILRVKGF..ELRRL     | 161 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GVEFLDPIQNPPD....PKVALMPEATARRVVVPVRLQ...GNSLVVAMKDPRNVFALDDLKLITG.....KEILPA      | 455 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | GYPYVDEEDPPD....PGAPLLLPEDLCRRYGVFPHRLE...GNRLVLLMKDPRNILALDDVRLALKRKGLNIEVAPA     | 460 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | GEPETDLISRYDYA.....NLCCQLGLRELITRYDALPIAKQ...GNLLLLAVSDPTLLQAEEEEFRFATG.....LQVELA | 124 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | GLSCTSLNQYEYA.....SLCQTLLGLRLITRHNAFLPNRT...SSTLLIADAPTNLQAEDDFRFATG.....LQVELV    | 124 |
| NTDB id 407320 GPY27 RS02140 WP 140094612.1 | GLSQPFSQYEYA.....SLCQQLGLRELITRHNAFLPHRT...PSTLLIADAPTNNQAEDDFRFATG.....LQVELV     | 124 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | GLSQPELSQYEYA.....SLCQQLGLRELITRHNAFLPHRT...PSTLLIADAPTNNQAEDDFRFATG.....LQVELV    | 124 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | SYSILDLRHYPRH....RVLMGVLTTEEQMVEFHCVPFRR...GDKVFFAVSDPTQMPQIQKTIVSAAG.....IAVELV   | 123 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | GVPMLDINCIDVG....TIPVNLVNEKLIKRRHAMVPLFSR...GTNLYLATDPSKQASLKETIQFHTG.....LNTHAI   | 132 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | AEPYFDLDVYDTS....QIPKDLVDQKLLKKHRILLPLIQR...GQILYVATSNPSTNTEAIDAIRFNSK.....LLVEPV  | 132 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | GEPLLDLGVEDPA....LFLKDKIDEKLIQKYRIMPLVHR...GHVLYVATSNPTNIEAMDIAIRFNSK.....LKVEPI   | 132 |
| consensus                                   | * * * * *                                                                          |     |

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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
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consensus
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NTDB id 1306 DR RS10060 WP 027479822.1
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NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

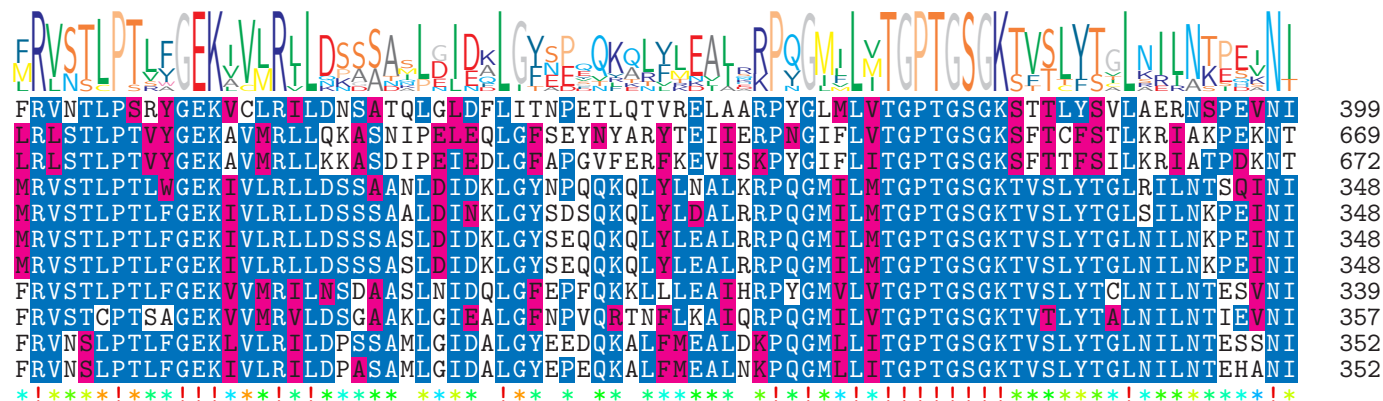
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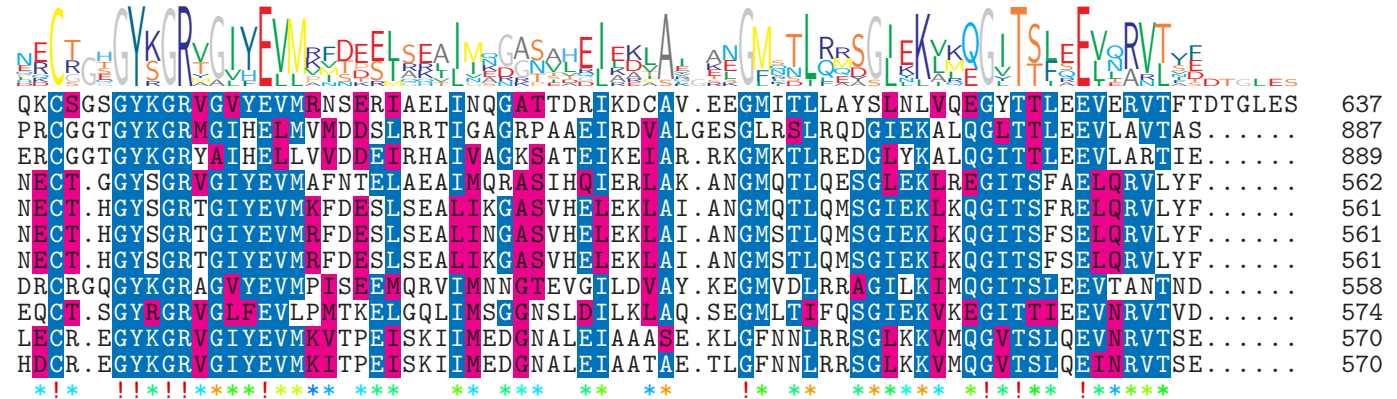
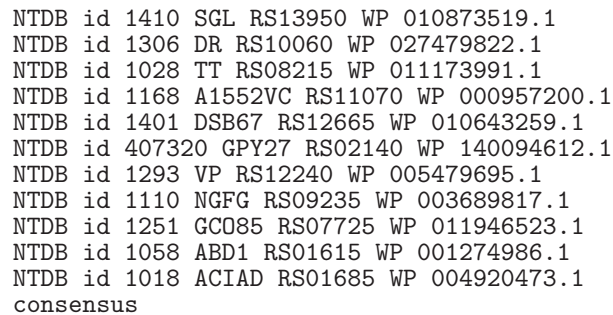
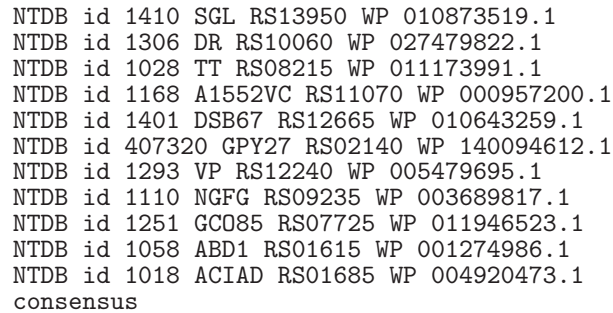
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NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1028 TT RS08215 WP 011173991.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
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consensus

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NTDB id 1410 SGL RS13950 WP 010873519.1
NTDB id 1306 DR RS10060 WP 027479822.1
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NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus
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|---------------------------------------------|--------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | EMRAKRRKSALTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
| NTDB id 1306 DR RS10060 WP 027479822.1      | .....                                | 887 |
| NTDB id 1028 TT RS08215 WP 011173991.1      | .....                                | 889 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                | 562 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                | 561 |
| NTDB id 407320 GPY27 RS02140 WP 140094612.1 | .....                                | 561 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                | 561 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                | 558 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                | 574 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                | 570 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                | 570 |
| consensus                                   |                                      |     |

-  non conserved
-  similar
-  ≥ 50% conserved