```
logo

                                                MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR
NTDB id 1410 SGL RS13950 WP 010873519.1         ..................................................................................  0
NTDB id 1306 DR RS10060 WP 027479822.1          MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR  80
NTDB id 1366 NTHI RS01950 WP 011271972.1        ..................................................................................  0
NTDB id 1355 HI 0298 AAC21962.1                 ..................................................................................  0
NTDB id 1384 A4U84 RS08525 WP 010787006.1       ..................................................................................  0
NTDB id 1468 ASU2 RS05090 WP 014991734.1        ..................................................................................  0
NTDB id 73163 AW67 RS04185 WP 000650598.1       ..................................................................................  0
NTDB id 1436 BW25113 RS00530 WP 001025145.1     ..................................................................................  0
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ..................................................................................  0
NTDB id 1293 VP RS12240 WP 005479695.1          ..................................................................................  0
NTDB id 1401 DSB67 RS12665 WP 010643259.1       ..................................................................................  0
NTDB id 1251 GC085 RS07725 WP 011946523.1       ..................................................................................  0
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ..................................................................................  0
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ..................................................................................  0
consensus


logo

                                                SIRPQTALNLQAFPFALEGDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGASDA
NTDB id 1410 SGL RS13950 WP 010873519.1         ..................................................................................  0
NTDB id 1306 DR RS10060 WP 027479822.1          SIRPQTALNLQAFPFALEGDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGASDA  160
NTDB id 1366 NTHI RS01950 WP 011271972.1        ..................................................................................  0
NTDB id 1355 HI 0298 AAC21962.1                 ..................................................................................  0
NTDB id 1384 A4U84 RS08525 WP 010787006.1       ..................................................................................  0
NTDB id 1468 ASU2 RS05090 WP 014991734.1        ..................................................................................  0
NTDB id 73163 AW67 RS04185 WP 000650598.1       ..................................................................................  0
NTDB id 1436 BW25113 RS00530 WP 001025145.1     ..................................................................................  0
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ..................................................................................  0
NTDB id 1293 VP RS12240 WP 005479695.1          ..................................................................................  0
NTDB id 1401 DSB67 RS12665 WP 010643259.1       ..................................................................................  0
NTDB id 1251 GC085 RS07725 WP 011946523.1       ..................................................................................  0
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ..................................................................................  0
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ..................................................................................  0
consensus


logo

                                                GRTGGKLGERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVLGSM
NTDB id 1410 SGL RS13950 WP 010873519.1         ..................................................................................  0
NTDB id 1306 DR RS10060 WP 027479822.1          GRTGGKLGERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVLGSM  240
NTDB id 1366 NTHI RS01950 WP 011271972.1        ..................................................................................  0
NTDB id 1355 HI 0298 AAC21962.1                 ..................................................................................  0
NTDB id 1384 A4U84 RS08525 WP 010787006.1       ..................................................................................  0
NTDB id 1468 ASU2 RS05090 WP 014991734.1        ..................................................................................  0
NTDB id 73163 AW67 RS04185 WP 000650598.1       ..................................................................................  0
NTDB id 1436 BW25113 RS00530 WP 001025145.1     ..................................................................................  0
NTDB id 1168 A1552VC RS11070 WP 000957200.1     ..................................................................................  0
NTDB id 1293 VP RS12240 WP 005479695.1          ..................................................................................  0
NTDB id 1401 DSB67 RS12665 WP 010643259.1       ..................................................................................  0
NTDB id 1251 GC085 RS07725 WP 011946523.1       ..................................................................................  0
NTDB id 1018 ACIAD RS01685 WP 004920473.1       ..................................................................................  0
NTDB id 1058 ABD1 RS01615 WP 001274986.1        ..................................................................................  0
consensus
```

logo



```
NTDB id 1410 SGL RS13950 WP 010873519.1      .....................................................MTSSSS     6
NTDB id 1306 DR RS10060 WP 027479822.1       LRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRLGEQLVQEGTLSRDQL   320
NTDB id 1366 NTHI RS01950 WP 011271972.1     ....................................................................     0
NTDB id 1355 HI 0298 AAC21962.1              ....................................................................     0
NTDB id 1384 A4U84 RS08525 WP 010787006.1     ....................................................................     0
NTDB id 1468 ASU2 RS05090 WP 014991734.1      ....................................................................     0
NTDB id 73163 AW67 RS04185 WP 000650598.1     ....................................................................     0
NTDB id 1436 BW25113 RS00530 WP 001025145.1   ....................................................................     0
NTDB id 1168 A1552VC RS11070 WP 000957200.1   ....................................................................     0
NTDB id 1293 VP RS12240 WP 005479695.1        ....................................................................     0
NTDB id 1401 DSB67 RS12665 WP 010643259.1     ....................................................................     0
NTDB id 1251 GCO85 RS07725 WP 011946523.1     ....................................................................     0
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ....................................................................     0
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ....................................................................     0
consensus
```

logo



```
NTDB id 1410 SGL RS13950 WP 010873519.1      SKKSRAVALRNYFSPFGNKLVAGGHVDAEQLRQALVQVKKTGRSLPEELKAVTGRELSPELLRQYKKNQLFELKVLYGVD    86
NTDB id 1306 DR RS10060 WP 027479822.1       REALQVQAREGKVKPLGEVITELGFASPDEVDSALQKQNVGGGRLEDTLVQ..SGKLSPEMLARS.......LAAQLGYE   391
NTDB id 1366 NTHI RS01950 WP 011271972.1     ..........................................MTSYA.......LLHTQRVTAQ.......NGEIF...    20
NTDB id 1355 HI 0298 AAC21962.1              ..........................................MTSYA.......LLHTQRVTAK.......NGEVF...    20
NTDB id 1384 A4U84 RS08525 WP 010787006.1     ..........................................MSQYT...........ICEQQ.......TERIF...    15
NTDB id 1468 ASU2 RS05090 WP 014991734.1      ..........................................MQYS...........VCDMN.......SQQVF...    14
NTDB id 73163 AW67 RS04185 WP 000650598.1     ....................................................................     0
NTDB id 1436 BW25113 RS00530 WP 001025145.1   ....................................................................     0
NTDB id 1168 A1552VC RS11070 WP 000957200.1   ..........MLTNLVAILRQAELISATQEQAVVTQVSASGTSVPEALLE..LSIFHAQELTEQ.......LSHIFGLP    60
NTDB id 1293 VP RS12240 WP 005479695.1        ..........MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALLS..SGFFTSSELAEH.......LSSIFGLS    60
NTDB id 1401 DSB67 RS12665 WP 010643259.1     ..........MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALLS..SGFFQSHELTEH.......LSSVFGLS    60
NTDB id 1251 GCO85 RS07725 WP 011946523.1     ...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALT.......AAQNFGVP    68
NTDB id 1018 ACIAD RS01685 WP 004920473.1     ...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLID..NFSISPLTIAEI.......ISLEFGEP    68
NTDB id 1058 ABD1 RS01615 WP 001274986.1      ...MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLLAET.......ISAEFAEP    68
consensus                                                    *                  *  *           *                ***
```

logo



```
NTDB id 1410 SGL RS13950 WP 010873519.1      SVDPEVAPIATQQMAELIGRFFPLDTCRRFKFLPLAQQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGFELRRLVVTQD   166
NTDB id 1306 DR RS10060 WP 027479822.1       FLDPIQNPP.....DPKVALMIPEATARRYVVVPVRLQG...NSLVVAMKDPRNVFALDDLKLI...TGKEILPAVMAEK   460
NTDB id 1366 NTHI RS01950 WP 011271972.1     .....TISP.....DLWERNQQQQSLLLRYFALPLKEEN...NRLWLGVDSLSNLSACETIAFI...TGKPVEPILLESS    84
NTDB id 1355 HI 0298 AAC21962.1              .....TISP.....DLWERNQQQQSLLLRYFALPLKEEN...NRLWLGVDSLSNLSACETIAFI...TGKPVEPILLESS    84
NTDB id 1384 A4U84 RS08525 WP 010787006.1     .....DISP.....SRWQKNCEEKQLLLRYLAVPVQETE...HKLWLAVDDENNLTACEIFAFM...THKQIEPVVIASD    79
NTDB id 1468 ASU2 RS05090 WP 014991734.1      .....DISE.....SLWQKNCDEKHILLRYLAIPIQEND...DTLWLAIDDMNNLSACEIFAFI...AHKTIEPVLISSD    78
NTDB id 73163 AW67 RS04185 WP 000650598.1     ..................MKDAQLNTLCQRHQAVLINSAS...NSITVAVVDAPSHALLDALHFA...TQKQIDIVCWTRQ    57
NTDB id 1436 BW25113 RS00530 WP 001025145.1   ..................MNIPQLTALCLRYHGVLLDASE...EVVHVAVVDAPSHELLDALHFA...TTKRIEITCWTRQ    57
NTDB id 1168 A1552VC RS11070 WP 000957200.1   ETDLSRYDY.....ANLCQQLGLRELITRYDALPIAKQG...NLLLLAVSDPTLLQAEEEFRFA...TGLQVELALADHR   129
NTDB id 1293 VP RS12240 WP 005479695.1        QPELSQYEY.....ASLCQQLGLRELITRHNALPLHRTP...STLLLAVADPTNQQAEDDFRFA...TGLQVELVLADFR   129
NTDB id 1401 DSB67 RS12665 WP 010643259.1     CTSLNQYEY.....ASLCQTLGLRDLITRHNALPLNRTS...STLILAVADPTNLQAEDDFRFA...TGLQVELVLADFR   129
NTDB id 1251 GCO85 RS07725 WP 011946523.1     MLDINCIDV.....GTIPVNLVNEKLIKRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQFH...TGLNTHAIVVETD   137
NTDB id 1018 ACIAD RS01685 WP 004920473.1     LLDLGVFDP.....ALFLKDKIDEKLIQKYRIMPLVHRG...HVLYVATSNPTNIEAMDAIRFN...SKLKVEPIIVEHD   137
NTDB id 1058 ABD1 RS01615 WP 001274986.1      YFDLDVYDT.....SQIPKDLVDQKLILKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFN...SKLLVEPVIVEHH   137
consensus                                                  **  **  ****        *  ***  ***** *  *  *  *     **   **  ****
```

logo



```
NTDB id 1410 SGL RS13950 WP 010873519.1     DFNQLLEQYYAIREEWEAAQEKRDQERALDKLNDLTDIVGSIDMNLGEDKEDVDNALDSNDANQAPVINLVNKILAKALQ  246
NTDB id 1306 DR RS10060 WP 027479822.1      DIIRLIERYFGEKGFEKLNKELAE.....................RN.....KTQQSQEADLSVADESAIVQVVDSIIREAAL  517
NTDB id 1366 NTHI RS01950 WP 011271972.1    QLKELLQQLTPHQMQVEEQVK.........................FYQHQETHFEQEDDEPVIRLLNQIFESALQ  135
NTDB id 1355 HI 0298 AAC21962.1             QLKELLQQLTPNQMQVEEQVK.........................FYQHQETHFEQEDDEPVIRLLNQIFESALQ  135
NTDB id 1384 A4U84 RS08525 WP 010787006.1   ELKYLLNALSPEQQPIYEESE.........................LAFVEQE.QEQLNLNDPIIQLLDNLFKFCLA  130
NTDB id 1468 ASU2 RS05090 WP 014991734.1    ELKYLLNQLSPEQQSLYEETE.........................LNYQSPDNLDLLNQNDPIIQILDNLFKFCLK  130
NTDB id 73163 AW67 RS04185 WP 000650598.1   QMENHR.......................................HKPDQAPSANAAKGGETAAQLLNQTLRSAMA   94
NTDB id 1436 BW25113 RS00530 WP 001025145.1 QMEGHA.......................................SRTQQTLPVAVQEKHQPKAELLTRTLQSALE   94
NTDB id 1168 A1552VC RS11070 WP 000957200.1 ALQAATRRLYGRSIQGAANQGK..E.ISQDELAN......LVKV.....SDDELQSIEDLSQDDSPVSRFINQVLLDAVR  195
NTDB id 1293 VP RS12240 WP 005479695.1      ELSTAIRRLYGRSLSHEKSGLK..E.INQEELAS......LVDV.....GADEIDNIEDLSQDESPVSRYINQILLDAVR  195
NTDB id 1401 DSB67 RS12665 WP 010643259.1   ELTAAIRRLYGRSLGQEKSGLK..E.INQDELAG......LVDI.....GEDEIENIEDLSQDESPVSRYINQILLDAVR  195
NTDB id 1251 GCO85 RS07725 WP 011946523.1   KLSALIDNLLTAKESQGLSEYVEDS.GDLEGLEI......SAD.....DEDQDIDTATSVTDDAPIVKFVNKILLDAIR  204
NTDB id 1018 ACIAD RS01685 WP 004920473.1   KLERLLSEHFVEETHFNFDTE...E.LD...LDV......EVDP.....HTTDDDDEDDKLKDEAPIVKYINKLLIDAIR  199
NTDB id 1058 ABD1 RS01615 WP 001274986.1    KLEKVLGQHFAEESSFDFNDE...E.FD...LDV......NLDG.....PTAQEDEEEAPQGDEAPIVKYINKLLIDAIR  199
consensus                                    *  **  *                          *       **  **********  **
```

logo

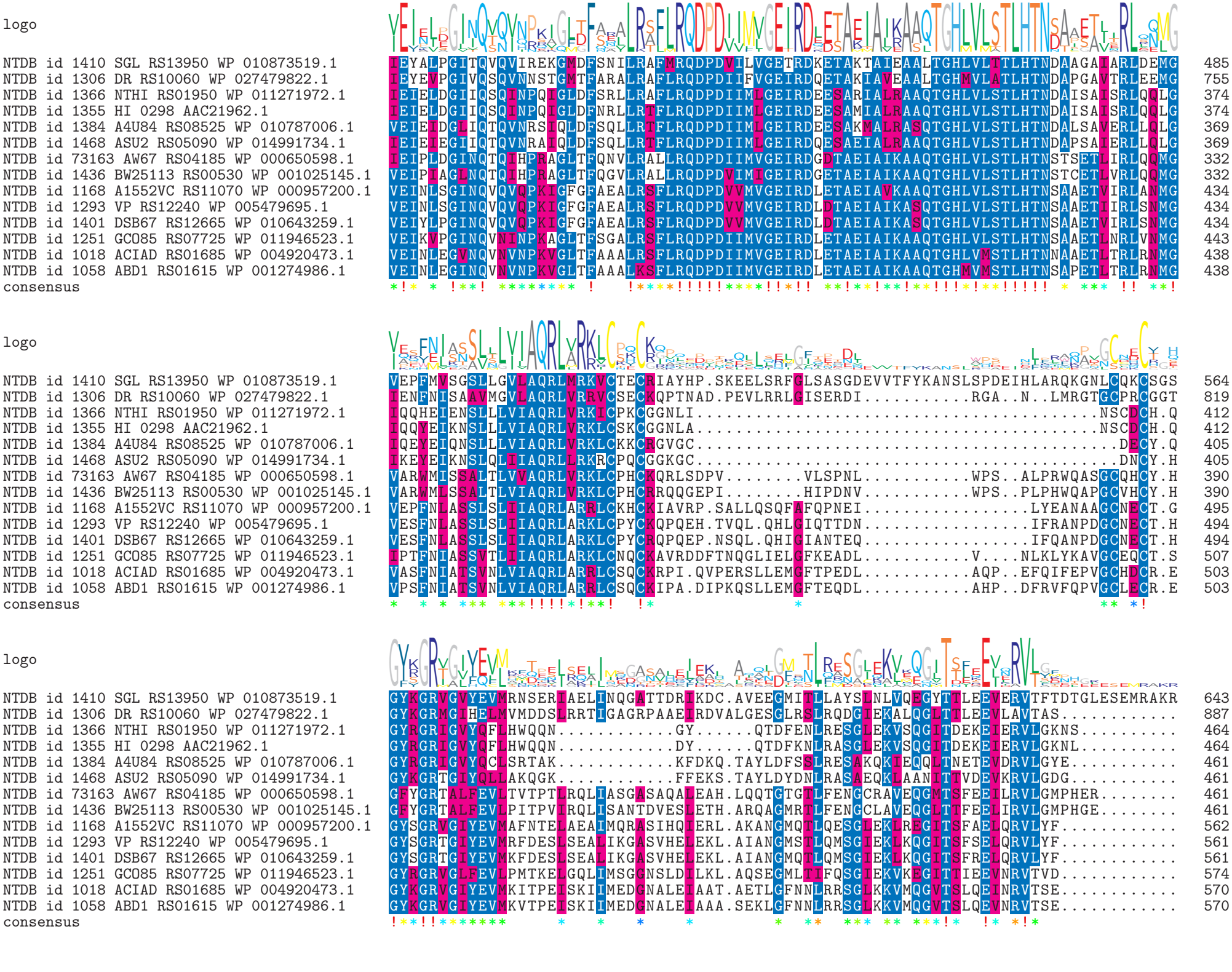


```
NTDB id 1410 SGL RS13950 WP 010873519.1     EGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMDIAERRSPQDGKIRRIYQG.RKVDFRVNTL  325
NTDB id 1306 DR RS10060 WP 027479822.1      QDASDIHIETTEDAVKVRYRIDGALREQNS.FPKGAAQQIMARLKIMGHLDIAERRVPQDGRVRFKKGS.IDLDLRLSTL  595
NTDB id 1366 NTHI RS01950 WP 011271972.1    KNASDIHLETLADQFQVRFRIDGVLQPQPL.ISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTFSDILDFRLSTL  214
NTDB id 1355 HI 0298 AAC21962.1             KNASDIHLETLADQFQVRFRIDGVLQPQPL.ISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTFSDILDFRLSTL  214
NTDB id 1384 A4U84 RS08525 WP 010787006.1   QNASDIHIEPRKQKLIIRLRIDGVLHLYKS.LSIQLASRLISRIKLLAKLDISELRQPQDGQFSFTTALADTLDFRVSSL  209
NTDB id 1468 ASU2 RS05090 WP 014991734.1    QNASDIHFEPQKEKLQIRLRIDGVLHIYKS.LSFSLANRIITRLKLLAKLDISETRLPQDGQFNFKTVTAETLDFRVSSL  209
NTDB id 73163 AW67 RS04185 WP 000650598.1   KRASDIHLEPGASRYRIRLRIDGVLHILQD.IAKETGLALTARLKVLGNLDIAEHRLPQDGQFTVDLSG.DSISFRIATL  172
NTDB id 1436 BW25113 RS00530 WP 001025145.1 QRASDIHIEPADNAYRIRLRIDGVLHPLPD.VSPDAGVALTARLKVLGNLDIAEHRLPQDGQFTVELAG.NAVSFRIATL  172
NTDB id 1168 A1552VC RS11070 WP 000957200.1 KGASDIHFEPYENQYRIRLRCDGILVETQQ.PASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSRDTAIDMRVSTL  274
NTDB id 1293 VP RS12240 WP 005479695.1      KGASDIHFEPYEKMYRVRLRCDGILIETQQ.PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKIKLNQDTAIDMRVSTL  274
NTDB id 1401 DSB67 RS12665 WP 010643259.1   KGASDIHFEPYENMYRVRLRCDGILIEIQQ.PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQDTAIDMRVSTL  274
NTDB id 1251 GCO85 RS07725 WP 011946523.1   QGASDIHFEPYEREYRIRYRQDGILHEVAT.PPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISKSRAIDFRVSTC  283
NTDB id 1018 ACIAD RS01685 WP 004920473.1   MSASDLHFEPYEKSYRVRYRVDGVLRLIAT.PPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSKSKTIDFRVNSL  278
NTDB id 1058 ABD1 RS01615 WP 001274986.1    MGASDLHFEPYEKSYRVRYRVDGVLRQIAN.PPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSKSKAIDFRVNSL  278
consensus                                    *!!*! !* *  ***! !*!!*!           ** ** *!*!*** *!! !*!*!!!!* **** ***!****
```

logo



```
NTDB id 1410 SGL RS13950 WP 010873519.1     PSRYGEKVCLRILDNSATQLGLDFLITNPETLQTVRELAARPYGLMLVTGPTGSGKSTTLYSVLAERNSPEVNINTAEDP  405
NTDB id 1306 DR RS10060 WP 027479822.1      PTVYGEKAVMRLLQKASNIPELEQLGFSEYNYARYTEIIERPNGIFLVTGPTGSGKSFTCFSTLKRIAKPEKNTTTIEDP  675
NTDB id 1366 NTHI RS01950 WP 011271972.1    PTHWGEKIVLRAQQNKPVELSFAELGMTENQQQAFQRSLSQPQGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDP  294
NTDB id 1355 HI 0298 AAC21962.1             PTHWGEKIVLRAQQNKPVELSFSELGMTENQQQAFQRVLSQPQGLILVTGPTGSGKSISLYTALQWLNTPDKHIMTAEDP  294
NTDB id 1384 A4U84 RS08525 WP 010787006.1   PTIYGEKLVLRLQKNKPTSFDFLQLGFNPQQQTTLLNALKQPQGLILVTGPTGSGKSITLYSALNYLNQMDKHILTAEDP  289
NTDB id 1468 ASU2 RS05090 WP 014991734.1    PTSFGEKIVLRLQKNKPTHFDFLELGFSPEQKQLLLTALHQPQGLILVTGPTGSGKSITLYSALNYLNNSERHILTAEDP  289
NTDB id 73163 AW67 RS04185 WP 000650598.1   PCKEGEKVVLRLLHQVEQTLDLDTLGMYGAQLTAFRQALQQPQGLVLVTGPTGSGKTVTLYSALQTRNMPGINLCSVEDP  252
NTDB id 1436 BW25113 RS00530 WP 001025145.1 PCRGGEKVVLRLLQQVGQALDVNTLGMQPLQLADFAHALQQPQGLVLVTGPTGSGKTVTLYSALQKLNTADINICSVEDP  252
NTDB id 1168 A1552VC RS11070 WP 000957200.1 PTLWGEKIVLRLLDSSAANLDIDKLGYNPQQKQLYLNALKRPQGMILMTGPTGSGKTVSLYTGLRILNTSQINISTAEDP  354
NTDB id 1293 VP RS12240 WP 005479695.1      PTLFGEKIVLRLLDSSSASLDIDKLGYSEQQKQLYLEALRRPQGMILMTGPTGSGKTVSLYTGLNILNKPEINISTAEDP  354
NTDB id 1401 DSB67 RS12665 WP 010643259.1   PTLFGEKIVLRLLDSSSAALDINKLGYSDSQKQLYLDALRRPQGMILMTGPTGSGKTVSLYTGLSILNKPEINISTAEDP  354
NTDB id 1251 GCO85 RS07725 WP 011946523.1   PTSAGEKVVMRVLDSGAAKLGIEALGFNPVQRTNFLKAIQRPQGMILVTGPTGSGKTVTLYTALNILNTIEVNISTAEDP  363
NTDB id 1018 ACIAD RS01685 WP 004920473.1   PTLFGEKIVLRILDPASAMLGIDALGYEPEQKALFMEALNKPQGMLLITGPTGSGKTVSLYTGLNILNTEHANISTAEDP  358
NTDB id 1058 ABD1 RS01615 WP 001274986.1    PTLFGEKLVLRILDPSSAMLGIDALGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNISTAEDP  358
consensus                                    !* *!!!***!**      ****  !**   *   ** **  *!*!**!*!!!!!!!!!*******!* *** * **  **!!!
```


logo
NTDB id 1410 SGL RS13950 WP 010873519.1 IEYALPGITQVQVIREKGMDFSNILRAFMRQDPDVILVGETRDKETAKTAIEAALTGHLVLTTLHTNDAAGAIARLDEMG 485
NTDB id 1306 DR RS10060 WP 027479822.1 IEYEVPGIVQSQVNNSTGMTFARALRAFLRQDPDIIFVGEIRDQETAKIAVEAALTGHMVLATLHTNDAPGAVTRLEEMG 755
NTDB id 1366 NTHI RS01950 WP 011271972.1 IEIELDGIIQSQINPQIGLDFSRLLRAFLRQDPDIIMLGEIRDEESARIALRAAQTGHLVLSTLHTNDAISAISRLQQLG 374
NTDB id 1355 HI 0298 AAC21962.1 IEIELDGIIQSQINPQIGLDFNRLLRTFLRQDPDIIMLGEIRDEESAMIALRAAQTGHLVLSTLHTNDAISAISRLQQLG 374
NTDB id 1384 A4U84 RS08525 WP 010787006.1 VEIEIDGLIQTQVNRSIQLDFSQLLRTFLRQDPDIIMLGEIRDEESAKMALRASQTGHLVLSTLHTNDALSAVERLLQLG 369
NTDB id 1468 ASU2 RS05090 WP 014991734.1 IEIEIEGIIQTQVNRAIQLDFSQLLRTFLRQDPDIIMLGEIRDQESAEIALRAAQTGHLVLSTLHTNDAPSAIERLLQLG 369
NTDB id 73163 AW67 RS04185 WP 000650598.1 IEIPLDGINQTQIHPRAGLTFQNVLRALLRQDPDIIMVGEIRDGDTAEIAIKAAQTGHLVLSTLHTNSTSETLIRLQQMG 332
NTDB id 1436 BW25113 RS00530 WP 001025145.1 VEIPIAGLNQTQIHPRAGLTFQGVLRALLRQDPDVIMIGEIRDGETAEIAIKAAQTGHLVLSTLHTNSTCETLVRLQQMG 332
NTDB id 1168 A1552VC RS11070 WP 000957200.1 VEINLSGINQVQVQPKIGFGFAEAALRSFLRQDPDVVMVGEIRDLETAEIAVKAAQTGHLVLSTLHTNSAAETVIRLANMG 434
NTDB id 1293 VP RS12240 WP 005479695.1 VEINLSGINQVQVQPKIGFGFAEAALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETIIRLSNMG 434
NTDB id 1401 DSB67 RS12665 WP 010643259.1 VEIYLPGINQVQVQPKIGFGFAEALRSFLRQDPDVVMVGEIRDLDTAEIAIKASQTGHLVLSTLHTNSAAETVIRLSNMG 434
NTDB id 1251 GCO85 RS07725 WP 011946523.1 VEIKVPGINQVNINPKAGLTFSGALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVLSTLHTNSAAETLNRLVNMG 443
NTDB id 1018 ACIAD RS01685 WP 004920473.1 VEINLEGVNQVNVNPKVGLTFAAALRSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHLVMSTLHTNNAAETLTRLRNMG 438
NTDB id 1058 ABD1 RS01615 WP 001274986.1 VEINLEGINQVNVNPKVGLTFAAALKSFLRQDPDIIMVGEIRDLETAEIAIKAAQTGHMVMSTLHTNSAPETLTRLRNMG 438
consensus
logo
NTDB id 1410 SGL RS13950 WP 010873519.1 VEPFMVSGSLLGVLAQRLMRKVCTECRIAYHP.SKEELSRFGLSASGDEVVTFYKANSLSPDEIHLARQKGNLCQKCSGS 564
NTDB id 1306 DR RS10060 WP 027479822.1 IENFNISAAVMGVLAQRLVRRVCSECKQPTNAD.PEVLRRLGISERDI.....RGA..N..LMRGTGCPRCGGT 819
NTDB id 1366 NTHI RS01950 WP 011271972.1 IQQHEIENSLLLVIAQRLVRKICPKCGGNLI.....NSCDCH.Q 412
NTDB id 1355 HI 0298 AAC21962.1 IQQYEIKNSLLLVIAQRLVRKLCSKCGGNLA.....NSCDCH.Q 412
NTDB id 1384 A4U84 RS08525 WP 010787006.1 IQEYEIQNSLLLVIAQRLVRKLCKKCRGVGC.....DECY.Q 405
NTDB id 1468 ASU2 RS05090 WP 014991734.1 IKEYEIKNSLQLIIAQRLLRKRCPQCGGKGC.....DNCY.H 405
NTDB id 73163 AW67 RS04185 WP 000650598.1 VARWMISSALTLVVAQRLVRKLCPHCKQRLSDPV.....VLSPNL.....WPS..ALPRWQASGCQHCY.H 390
NTDB id 1436 BW25113 RS00530 WP 001025145.1 VARWMLSSALTLVIAQRLVRKLCPHCRRQQGEPI.....HIPDNV.....WPS..PLPHWQAPGCVHCY.H 390
NTDB id 1168 A1552VC RS11070 WP 000957200.1 VEPFNLASSLSLIIAQRLARRLCKHCKIAVRP.SALLQSQFAFQPNEI.....LYEANAAGCNECT.G 495
NTDB id 1293 VP RS12240 WP 005479695.1 VESFNLASSLSLIIAQRLARKLCPYCKQPQEH.TVQL.QHLGIQTTDN.....IFRANPDGCNECT.H 494
NTDB id 1401 DSB67 RS12665 WP 010643259.1 VESFNLASSLSLIIAQRLARKLCPYCRQPQEP.NSQL.QHIGIANTEQ.....IFQANPDGCNECT.H 494
NTDB id 1251 GCO85 RS07725 WP 011946523.1 IPTFNIASSVTLIIAQRLARKLCNQCKAVRDDFTNQGLIELGFKEADL.....V....NLKLYKAVGCEQCT.S 507
NTDB id 1018 ACIAD RS01685 WP 004920473.1 VASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPERSLLEMGFTPEDL.....AQP..EFQIFEPVGCHDCR.E 503
NTDB id 1058 ABD1 RS01615 WP 001274986.1 VPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPKQSLLEMGFTEQDL.....AHP..DFRVFQPVGCLECR.E 503
consensus
logo
NTDB id 1410 SGL RS13950 WP 010873519.1 GYKGRVGVYEVMRNSERIAELINQGATTDRIKDC.AVEEGMITLLAYSLNLVQEGYTTLEEVERVTFTDTGLESEMRAKR 643
NTDB id 1306 DR RS10060 WP 027479822.1 GYKGRMGIHELMVMDDSLRRTIGAGRPAAEIRDVALGESGLRSLRQDGIEKALQGLTTLEEVLAVTAS..... 887
NTDB id 1366 NTHI RS01950 WP 011271972.1 GYRGRIGVYQFLHWQQN.....GY.....QTDFENLRESGLEKVSQGITDEKEIERVLGKNS..... 464
NTDB id 1355 HI 0298 AAC21962.1 GYRGRIGVYQFLHWQQN.....DY.....QTDFKNLRASGLEKVSQGITDEKEIERVLGKNL..... 464
NTDB id 1384 A4U84 RS08525 WP 010787006.1 GYRGRIGVYQCLSRTAK.....KFDKQ.TAYLDFSSLRESAKQKIEQQLTNETEVDRVLGYE..... 461
NTDB id 1468 ASU2 RS05090 WP 014991734.1 GYKGRTGIYQLLAKQGK.....FFEKS.TAYLDYDNLRASAEQKLAANITTVDEVKRVLGDG..... 461
NTDB id 73163 AW67 RS04185 WP 000650598.1 GFYGRTALFEVLTVTPTLRQLIASGASAQALEAH.LQQTGTGTLFENGCRAVEQGMTSFEEILRVLGMPHER..... 461
NTDB id 1436 BW25113 RS00530 WP 001025145.1 GFYGRTALFEVLPITPVIRQLISANTDVESLETH.ARQAGMRTLFENGCLAVEQGLTTFEELIRVLGMPHGE..... 461
NTDB id 1168 A1552VC RS11070 WP 000957200.1 GYSGRVGIYEVMAFNTELAEAIMQRASIHQIERL.AKANGMQTLQESGLEKLREGITSFAELQRVLYF..... 562
NTDB id 1293 VP RS12240 WP 005479695.1 GYSGRTGIYEVMRFDESLSEALIKGASVHELEKL.AIANGMSTLQMSGIEKLKQGITSFSELQRVLYF..... 561
NTDB id 1401 DSB67 RS12665 WP 010643259.1 GYSGRTGIYEVMKFDESLSEALIKGASVHELEKL.AIANGMQTLQMSGIEKLKQGITSFRELQRVLYF..... 561
NTDB id 1251 GCO85 RS07725 WP 011946523.1 GYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKL.AQSEGMLTIFQSGIEKVKEGITTIEEVNRVTVD..... 574
NTDB id 1018 ACIAD RS01685 WP 004920473.1 GYKGRVGIYEVMKITPEISKIIMEDGNALEIAAT.AETLGFNNLRRSGLKKVMQGVTSLQEINRVTSE..... 570
NTDB id 1058 ABD1 RS01615 WP 001274986.1 GYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAA.SEKLGFNNLRRSGLKKVMQGVTSLQEVNRVTSE..... 570
consensus

logo


```
NTDB id 1410 SGL RS13950 WP 010873519.1      KSALTCRTCAAELQQEWLDCPYCMTSRFS   672
NTDB id 1306 DR RS10060 WP 027479822.1       ..............................   887
NTDB id 1366 NTHI RS01950 WP 011271972.1     ..............................   464
NTDB id 1355 HI 0298 AAC21962.1              ..............................   464
NTDB id 1384 A4U84 RS08525 WP 010787006.1    ..............................   461
NTDB id 1468 ASU2 RS05090 WP 014991734.1     ..............................   461
NTDB id 73163 AW67 RS04185 WP 000650598.1    ..............................   461
NTDB id 1436 BW25113 RS00530 WP 001025145.1  ..............................   461
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ..............................   562
NTDB id 1293 VP RS12240 WP 005479695.1       ..............................   561
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ..............................   561
NTDB id 1251 GCO85 RS07725 WP 011946523.1    ..............................   574
NTDB id 1018 ACIAD RS01685 WP 004920473.1    ..............................   570
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ..............................   570
consensus
```

X non conserved
X similar
X ≥ 50% conserved