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NTDB id 1306 DR RS10060 WP 027479822.1           .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAAL   79
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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
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NTDB id 1058 ABD1 RS01615 WP 001274986.1         ..........................................................    0
consensus
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consensus
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consensus
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NTDB id 1293 VP RS12240 WP 005479695.1           ..........................................................................   0
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NTDB id 1058 ABD1 RS01615 WP 001274986.1         ..........................................................................   0
consensus
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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
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NTDB id 1293 VP RS12240 WP 005479695.1       ..............MHSNLSTILRQKGLLTFSQEESLIEQVKASGISMPEALL..SSGFFTSSELAEH.......LSSIF   57
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ..............MLTNLSTVLRQAGILTFSQEESLLEQVKASGISMPEALL..SSGFFQSHELTEH.......LSSVF   57
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NTDB id 1058 ABD1 RS01615 WP 001274986.1     ......MSALHTSPKFTGFFRRLVEEKHVSAATMQTALDAAKRAKQDTVAYLI..EEVHLSPSLLAET.......ISAEF   65
consensus                                                 *                *   *                 *                  *
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NTDB id 1366 NTHI RS01950 WP 011271972.1     ........TISPD.....LWERNQQQQSLLLRYFALPLKEEN...NRLWLGVDSLSNLSACETIAFITG.....KPVEPI   79
NTDB id 1355 HI 0298 AAC21962.1              ........TISPD.....LWERNQQQQSLLLRYFALPLKEEN...NRLWLGVDSLSNLSACETIAFITG.....KPVEPI   79
NTDB id 1384 A4U84 RS08525 WP 010787006.1    ........DISPS.....RWQKNCEEKQLLLRYLAVPVQETE...HKLWLAVDDENNLTACEIFAFMTH.....KQIEPV   74
NTDB id 1468 ASU2 RS05090 WP 014991734.1     ........DISES.....LWQKNCDEKHILLRYLAIPIQEND...DTLWLAIDDMNNLSACEIFAFIAH.....KTIEPV   73
NTDB id 75092 SEEE0968 RS19870 WP 000650595.1 ....................MKDAQLNTLCQRHQAVLINSAS...NSITVAVVDAPSHALLDALHFATQ.....KQIDIV   52
NTDB id 1436 BW25113 RS00530 WP 001025145.1  ....................MNIPQLTALCLRYHGVLLDASE...EVVHVAVVDAPSHELLDALHFATT.....KRIEIT   52
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NTDB id 1293 VP RS12240 WP 005479695.1       GLSQPELSQYEYA.....SLCQQLGLRELITRHNALPLHRTP...STLLLAVADPTNQQAEDDFRFATG.....LQVELV   124
NTDB id 1401 DSB67 RS12665 WP 010643259.1    GLSCTSLNQYEYA.....SLCQTLGLRDLITRHNALPLNRTS...STLILAVADPTNLQAEDDFRFATG.....LQVELV   124
NTDB id 1251 GCO85 RS07725 WP 011946523.1    GVPMLDINCIDVG.....TIPVNLVNEKLIKRHAMVPLFSRG...TNLYLATDDPSKQASLKEIQFHTG.....LNTHAI   132
NTDB id 1018 ACIAD RS01685 WP 004920473.1    GEPLLDLGVFDPA.....LFLKDKIDEKLIQKYRIMPLVHRG...HVLYVATSNPTNIEAMDAIRFNSK.....LKVEPI   132
NTDB id 1058 ABD1 RS01615 WP 001274986.1     AEPYFDLDVYDTS.....QIPKDLVDQKLILKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFNSK.....LLVEPV   132
consensus                                    *                    **  **  ****          *  ***  **  **  *  *  *  *  *         **  *
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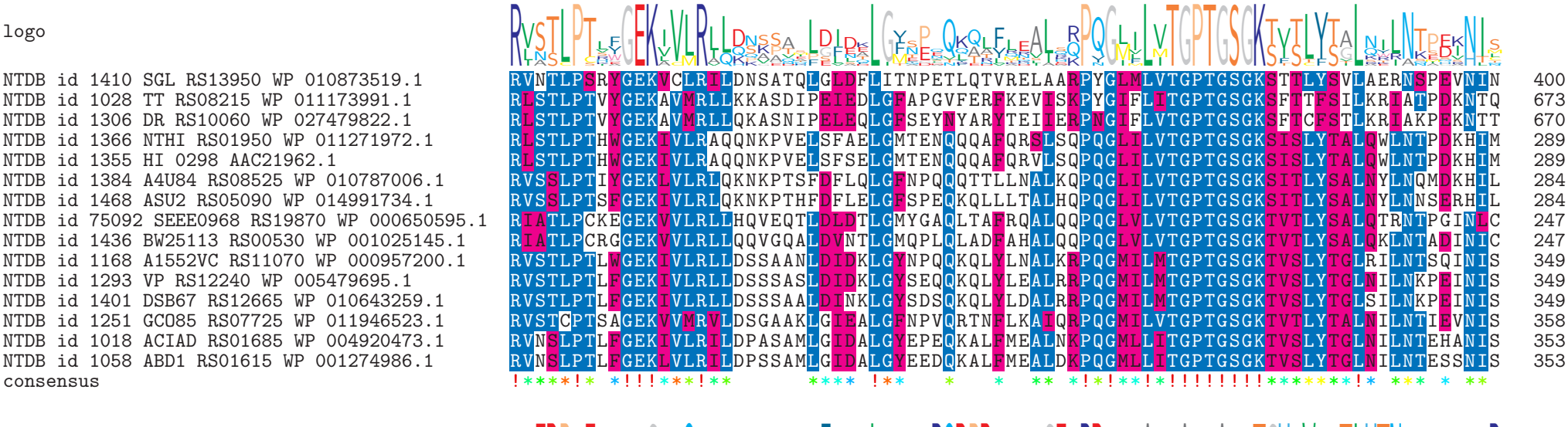


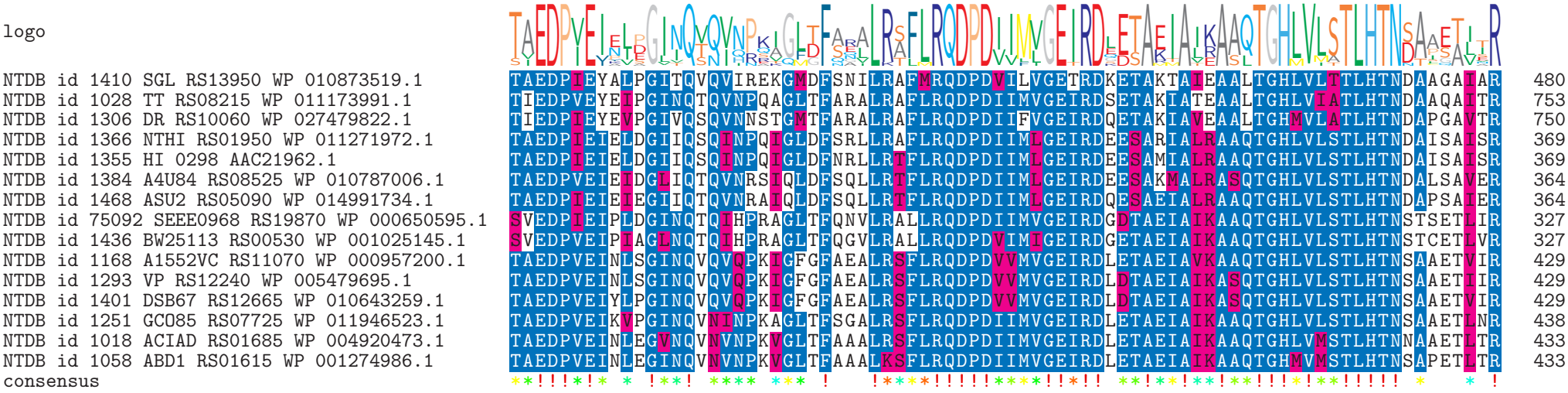
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NTDB id 1028 TT RS08215 WP 011173991.1    VATEAAITKLIERFYGKAELSEIAKEFAK.................KQ.....AEEEV..PSPLELDESAAQKFVKQVI   515
NTDB id 1306 DR RS10060 WP 027479822.1    VMAEKDIIRLIERYFGEKGFEKLNKELAE.................RN.....KTQQSQEADLSVADESALVQVVDSII   512
NTDB id 1366 NTHI RS01950 WP 011271972.1  LLESSQLKELLQQLTPHQMQVEEQVK.....................FYQHQETHFEQEDDEPVIRLLNQIF   130
NTDB id 1355 HI 0298 AAC21962.1           LLESSQLKELLQQLTPNQMQVEEQVK.....................FYQHQETHFEQEDDEPVIRLLNQIF   130
NTDB id 1384 A4U84 RS08525 WP 010787006.1 VIASDELKYLLNALSPEQQPIYEESE.....................LAFVEQE.QEQLNLNDPIIQLLDNLF   125
NTDB id 1468 ASU2 RS05090 WP 014991734.1  LISSDELKYLLNQLSPEQQSLYEETE.....................LNYQSPDNLDLLNQNDPIIQILDNLF   125
NTDB id 75092 SEEE0968 RS19870 WP 000650595.1 CWTRQQMENHR.....................................HKPDQAPSANAAKGGETAAQLLNQTL    89
NTDB id 1436 BW25113 RS00530 WP 001025145.1 CWTRQQMEGHA.....................................SRTQQTLPVAVQEKHQPKAELLTRTL    89
NTDB id 1168 A1552VC RS11070 WP 000957200.1 LADHRALQAAIRRLYGRSIQGAANQGK..E.ISQDELA......NLVKV.....SDDELQSIEDLSQDDSPVSRFINQVL   190
NTDB id 1293 VP RS12240 WP 005479695.1    LADFRELSTAIRRLYGRSLSHEKSGLK..E.INQEELA......SLVDV.....GADEIDNIEDLSQDESPVSRYINQIL   190
NTDB id 1401 DSB67 RS12665 WP 010643259.1 LADFRELTAAIRRLYGRSLGQEKSGLK..E.INQDELA......GLVDI.....GEDEIENIEDLSQDESPVSRYINQIL   190
NTDB id 1251 GCO85 RS07725 WP 011946523.1 VVETDKLSALIDNLLTAKESQGLSEYVEDS.GDLEGLE......ISAD......DEDQDIDTATSVTDDAPIVKFVNKIL   199
NTDB id 1018 ACIAD RS01685 WP 004920473.1 IVEHDKLERLLSEHFVEETHFNFDTE...E.LD...LD......VEVDP.....HTTDDDDEDDKLKDEAPIVKYINKLL   194
NTDB id 1058 ABD1 RS01615 WP 001274986.1  IVEHHKLEKVLGQHFAEESSFDFNDE...E.FD...LD......VNLDG.....PTAQEDEEEAPQGDEAPIVKYINKLL   194
consensus                                 **     *   **                                 **  ****  *****
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NTDB id 1306 DR RS10060 WP 027479822.1    REAALQDASDIHIETTEDAVKVRYRIDGALREQ.NSFPKGAAQQIMARLKIMGHLDIAERRVPQDGRVRFKKGS.IDLDL   590
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NTDB id 1355 HI 0298 AAC21962.1           ESALQKNASDIHLETLADQFQVRFRIDGVLQPQ.PLISKIFANRIISRLKLLAKLDISENRLPQDGRFQFKTTFSDILDF   209
NTDB id 1384 A4U84 RS08525 WP 010787006.1 KFCLAQNASDIHIEPRKQKLIRLRIDGVLHLY.KSLSIQLASRLISRIKLLAKLDISELRQPQDGQFSFTTALADTLDF   204
NTDB id 1468 ASU2 RS05090 WP 014991734.1  KFCLKQNASDIHFEPQKEKLQIRLRIDGVLHIY.KSLSFSLANRIITRLKLLAKLDISETRLPQDGQFNFKTVTAETLDF   204
NTDB id 75092 SEEE0968 RS19870 WP 000650595.1 RSAMAKRASDIHLEPGASRYRIRLRIDGVLHIL.QDIAKETGLALTARLKVLGNLDIAEHRLPQDGQFTVDLAG.DSISF   167
NTDB id 1436 BW25113 RS00530 WP 001025145.1 QSALEQRASDIHIEPADNAYRIRLRIDGVLHPL.PDVSPDAGVALTARLKVLGNLDIAEHRLPQDGQFTVELAG.NAVSF   167
NTDB id 1168 A1552VC RS11070 WP 000957200.1 LDAVRKGASDIHFEPYENQYRIRLRCDGILVET.QQPASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSRDTAIDM   269
NTDB id 1293 VP RS12240 WP 005479695.1    LDAVRKGASDIHFEPYEKMYRVRLRCDGILIET.QQPPNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQDTAIDM   269
NTDB id 1401 DSB67 RS12665 WP 010643259.1 LDAVRKGASDIHFEPYENMYRVRLRCDGILIEI.QQPPSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNQDTAIDM   269
NTDB id 1251 GCO85 RS07725 WP 011946523.1 LDAIRQGASDIHFEPYEREYRIRYRQDGILHEV.ATPPASLSSRITARIKVMSNLDISERRIPQDGGFKMKISKSRAIDF   278
NTDB id 1018 ACIAD RS01685 WP 004920473.1 IDAIRMSASDLHFEPYEKSYRVRYRVDGVLRLI.ATPPLQLATRLASRLKVMSQMDISEKRVPQDGRIKLKMSKSKTIDF   273
NTDB id 1058 ABD1 RS01615 WP 001274986.1  IDAIRMGASDLHFEPYEKSYRVRYRVDGVLRQI.ANPPLQLANRLASRLKVMSQMDISEKRVPQDGRIKLKLSKSKAIDF   273
consensus                                   **    *!!*! !* *  ***! !*!!*!          ** **  **!*** **! !*!*!!!!* * *      ***
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NTDB id 1410 SGL RS13950 WP 010873519.1 RVNTLPSRYGEKVCLRILDNSATQLGLDFLITNPETLQTVRELAARPYGLMLVTGPTGSGKSTTLYSVLAERNSPEVNIN 400
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NTDB id 1058 ABD1 RS01615 WP 001274986.1 RVNSLPTLFGEKLVLRILDPSSAMLGIDALGYEEDQKALFMEALDKPQGMLLITGPTGSGKTVSLYTGLNILNTESSNIS 353
consensus


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NTDB id 1306 DR RS10060 WP 027479822.1 TIEDPIEYEVPGIVQSQVNNSTGMTFARALRAFLRQDPDIIFVGEIRDQETAKIAVEAALTGHMVLATLHTNDAPGAVTR 750
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NTDB id 1384 A4U84 RS08525 WP 010787006.1 TAEDPVEIEIDGLIQTQVNRSIQLDFSQLLRTFLRQDPDIIMLGEIRDEESAKMALRASQTGHLVLSTLHTNDALSAVER 364
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consensus

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NTDB id 1410 SGL RS13950 WP 010873519.1     LDEMGVEPFMVSGSLLGVLAQRLMRKVCTECRIAYHPS.KEELSRFGLSASGDEVVTFYKANSLSPDEIHLARQKGNLCQ   559
NTDB id 1028 TT RS08215 WP 011173991.1      LDEMGVEPFNISAALIGVLSQRLVRRVCEHCKVEVKPD.PETLRRLGLSEAEIQ..........GA....RLYKGMGCE   817
NTDB id 1306 DR RS10060 WP 027479822.1      LEEMGIENFNISAAVMGVLAQRLVRRVCSECKQPTNAD.PEVLRRLGISERDIR..........GA....NLMRGTGCP   814
NTDB id 1366 NTHI RS01950 WP 011271972.1    LQQLGIQQHEIENSLLLVIAQRLVRKICPKCGGNLI.....................................NSC   408
NTDB id 1355 HI 0298 AAC21962.1             LQQLGIQQYEIKNSLLLVIAQRLVRKLCSKCGGNLA.....................................NSC   408
NTDB id 1384 A4U84 RS08525 WP 010787006.1    LLQLGIQEYEIQNSLLLVIAQRLVRKLCKKCRGVGC.....................................D   401
NTDB id 1468 ASU2 RS05090 WP 014991734.1     LLQLGIKEYEIKNSLQLIIAQRLLRKRCPQCGGKGC.....................................D   401
NTDB id 75092 SEEE0968 RS19870 WP 000650595.1 LQQMGVARWMISSALTLVVAQRLVRKLCPHCKQRLSDPV........VLSPNLW..........PS..ALPRWQANGCQ   386
NTDB id 1436 BW25113 RS00530 WP 001025145.1  LQQMGVARWMLSSALTLVIAQRLVRKLCPHCRRQQGEPI........HIPDNVW..........PS..PLPHWQAPGCV   386
NTDB id 1168 A1552VC RS11070 WP 000957200.1  LANMGVEPFNLASSLSLIIAQRLARRLCKHCKIAVRP.SALLQSQFAFQPNEI.................LYEANAAGCN   491
NTDB id 1293 VP RS12240 WP 005479695.1       LSNMGVESFNLASSLSLIIAQRLARKLCPYCKQPQEH.TVQL.QHLGIQTTDN..................IFRANPDGCN   490
NTDB id 1401 DSB67 RS12665 WP 010643259.1    LSNMGVESFNLASSLSLIIAQRLARKLCPYCRQPQEP.NSQL.QHIGIANTEQ..................IFQANPDGCN   490
NTDB id 1251 GCO85 RS07725 WP 011946523.1    LVNMGIPTFNIASSVTLIIAQRLARKLCNQCKAVRDDFTNQGLIELGFKEADLV................NLKLYKAVGCE   503
NTDB id 1018 ACIAD RS01685 WP 004920473.1    LRNMGVASFNIATSVNLVIAQRLARRLCSQCKRPI.QVPERSLLEMGFTPEDLA..........QP..EFQIFEPVGCH   499
NTDB id 1058 ABD1 RS01615 WP 001274986.1     LRNMGVPSFNIATSVNLVIAQRLARRLCSQCKIPA.DIPKQSLLEMGFTEQDLA..........HP..DFRVFQPVGCL   499
consensus                                    ! **!*  * *  ** ****!!!*!**!  !*          *                        **
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NTDB id 1410 SGL RS13950 WP 010873519.1     KCSGSGYKGRVGVYEVMRNSERIAELINQGATTDRIKDCAV.EEGMITLLAYSLNLVQEGYTTLEEVERVTFTDTGLESE   638
NTDB id 1028 TT RS08215 WP 011173991.1      RCGGTGYKGRYAIHELIVVDDEIRHAIVAGKSATEIKEIAR.RKGMKTLREDGLYKALQGITTLEEVLARTIE.......   889
NTDB id 1306 DR RS10060 WP 027479822.1      RCGGTGYKGRMGIHELMVMDDSLRRTIGAGRPAAEIRDVALGESGLRSLRQDGIEKALQGLTTLEEVLAVTAS.......   887
NTDB id 1366 NTHI RS01950 WP 011271972.1    DCH.QGYRGRIGVYQFLHWQQN.............GY......QTDFENLRESGLEKVSQGITDEKEIERVLGKNS.....   464
NTDB id 1355 HI 0298 AAC21962.1             DCH.QGYRGRIGVYQFLHWQQN.............DY......QTDFKNLRASGLEKVSQGITDEKEIERVLGKNL.....   464
NTDB id 1384 A4U84 RS08525 WP 010787006.1    ECY.QGYRGRIGVYQCLSRTAK.............KFDKQTA.YLDFSSLRESAKQKIEQQLTNETEVDRVLGYE......   461
NTDB id 1468 ASU2 RS05090 WP 014991734.1     NCY.HGYKGRTGIYQLLAKQGK.............FFEKSTA.YLDYDNLRASAEQKLAANITTVDEVKRVLGDG......   461
NTDB id 75092 SEEE0968 RS19870 WP 000650595.1 HCY.HGFYGRTALFEVLTVTPALRQLIASGASAQALEAHLQ.QTGTGTLFENGCRAVEQGMTSFEEILRVLGMPHER...   461
NTDB id 1436 BW25113 RS00530 WP 001025145.1  HCY.HGFYGRTALFEVLPITPVIRQLISANTDVESLETHAR.QAGMRTLFENGCLAVEQGLTTFEELIRVLGMPHGE...   461
NTDB id 1168 A1552VC RS11070 WP 000957200.1  ECT.GGYSGRVGIYEVMAFNTELAEAIMQRASIHQIERLAK.ANGMQTLQESGLEKLREGITSFAELQRVLYF.......   562
NTDB id 1293 VP RS12240 WP 005479695.1       ECT.HGYSGRTGIYEVMRFDESLSEALIKGASVHELEKLAI.ANGMSTLQMSGIEKLKQGITSFSELQRVLYF.......   561
NTDB id 1401 DSB67 RS12665 WP 010643259.1    ECT.HGYSGRTGIYEVMKFDESLSEALIKGASVHELEKLAI.ANGMQTLQMSGIEKLKQGITSFRELQRVLYF.......   561
NTDB id 1251 GCO85 RS07725 WP 011946523.1    QCT.SGYRGRVGLFEVLPMTKELGQLIMSGGNSLDILKLAQ.SEGMLTIFQSGIEKVKEGITTIEEVNRVTVD.......   574
NTDB id 1018 ACIAD RS01685 WP 004920473.1    DCR.EGYKGRVGIYEVMKITPEISKIIMEDGNALEIAATAE.TLGFNNLRRSGLKKVMQGVTSLQEINRVTSE.......   570
NTDB id 1058 ABD1 RS01615 WP 001274986.1     ECR.EGYKGRVGIYEVMKVTPEISKIIMEDGNALEIAAASE.KLGFNNLRRSGLKKVMQGVTSLQEVNRVTSE.......   570
consensus                                     !   !**!!*******     *   *       *   *    *  **  *** ** ***!*  !* ***
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NTDB id 1410 SGL RS13950 WP 010873519.1          MRAKRKSALTCRTCAAELQQEWLDCPYCMTSRFS   672
NTDB id 1028 TT RS08215 WP 011173991.1           ..................................   889
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 75092 SEEE0968 RS19870 WP 000650595.1    ..................................   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 $\geq$ 50% conserved