

logo

|   |  |    |
|---|--|----|
| NTDB id 1410 SGL RS13950 WP 010873519.1     | MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR | 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 24904 SESA RS01355 WP 000650608.1   | .....  | 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                                   | .....  | 0  |

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| NTDB id 1410 SGL RS13950 WP 010873519.1     | SIRPQTALNLQAFPFALEGDRRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLIEIVVPSGASDA | 0   |
| NTDB id 1306 DR RS10060 WP 027479822.1      | SIRPQTALNLQAFPFALEGDRRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLIEIVVPSGASDA | 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 24904 SESA RS01355 WP 000650608.1   | .....  | 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                                   | .....  | 0   |

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| NTDB id 1410 SGL RS13950 WP 010873519.1     | GRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSCGFHPGEEVLGSM | 0   |
| NTDB id 1306 DR RS10060 WP 027479822.1      | GRTGGKLGRLITHGYITDAQLQVALDAQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSCGFHPGEEVLGSM | 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 24904 SESA RS01355 WP 000650608.1   | .....   | 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                                   | .....   | 0   |

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|               |                                |  |   |     |
|---------------|--------------------------------|--|---|-----|
|               |                                |  | LRADALRLLAVPVDETEQGVTVLTS DPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGGEQLVQEGTLSRDQL |     |
| NTDB id 1410  | SGL RS13950 WP 010873519.1     |  | .....MTSSSS   | 6   |
| NTDB id 1306  | DR RS10060 WP 027479822.1      |  | LRADALRLLAVPVDETEQGVTVLTS DPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGRLGGEQLVQEGTLSRDQL | 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 24904 | SESA RS01355 WP 000650608.1    |  | .....   | 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     |                                |  |   |     |

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|               |                                |  |   |     |
|---------------|--------------------------------|--|---|-----|
|               |                                |  | SKKSRAVALRNYFSPFGNKLIVAGGHVDAEQLRQALVQVKKTRGSLPEELKAVTGRELSPELIRQYKKNQLFELKVLVYGV |     |
| NTDB id 1410  | SGL RS13950 WP 010873519.1     |  | .....LAAQLGYE   | 86  |
| NTDB id 1306  | DR RS10060 WP 027479822.1      |  | REALQVQAREGKVKPLGEVITELGFASPDEVDSALQKQNVGGGRIEDTLVQ..SGKLSPEMLARS.....LAAQLGYE    | 391 |
| NTDB id 1366  | NTHI RS01950 WP 011271972.1    |  | .....MTSYA.....LLHTQRVTAQ.....NGEIF...  | 20  |
| NTDB id 1355  | HI 0298 AAC21962.1             |  | .....MTSYA.....LLHTQRVTAQ.....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 24904 | SESA RS01355 WP 000650608.1    |  | .....   | 0   |
| NTDB id 1436  | BW25113 RS00530 WP 001025145.1 |  | .....   | 0   |
| NTDB id 1168  | A1552VC RS11070 WP 000957200.1 |  | .....MLTNLVAIIRQAELISATQEQAVVTQVSASGTSVPEALILE..LSIFHAQELITEQ.....LSHIFGLP        | 60  |
| NTDB id 1293  | VP RS12240 WP 005479695.1      |  | .....MHSNLSTILRQKGLLTFQSQEESLIEQVKASGISMPEALLS..SGFFTSSSELAEH.....LSSIFGLS        | 60  |
| NTDB id 1401  | DSB67 RS12665 WP 010643259.1   |  | .....MLTNLSTVLRQAGILTFQSQEESLLEQVKASGISMPEALLS..SGFFQSHELTEH.....LSSVFGLS         | 60  |
| NTDB id 1251  | GCO85 RS07725 WP 011946523.1   |  | ...MALATEEYRLQGIGQLLVLEKLLDKTKAIELHKLAAAEKISLLQYIVK..NKILSAEQIALT.....AAQNFQVGP   | 68  |
| NTDB id 1018  | ACIAD RS01685 WP 004920473.1   |  | ...MSAFTTPPKFSGFIRRLVEEGYVNAQNMQQALEKAKKFKQDIVPYLID..NFSISPLTIAEI.....ISLEFGEP    | 68  |
| NTDB id 1058  | ABD1 RS01615 WP 001274986.1    |  | ...MSALHTSPKFTGFFRRLVEEKHVSAAATMQTALDAAKRAKQDTVAYLIE..EVHLSPSLIAET.....ISAEFAEP   | 68  |
| consensus     |                                |  |   |     |

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|---------------|--------------------------------|--|---|-----|
|               |                                |  | SVDPEVAPIATQMAELIGRFFPLDTCRRFKFLPLAQEGDPPSVLVAMVDPDNLAAQDELNRILRVKGFELRRLVVVTQD |     |
| NTDB id 1410  | SGL RS13950 WP 010873519.1     |  | .....TGKEILPAVMAEK  | 166 |
| NTDB id 1306  | DR RS10060 WP 027479822.1      |  | FLDPIQNP...DPKVALMIPEATARRVYVVPVRLQG...NSLVVAMKDPNRNVFALDDIKLI...TGKEILPAVMAEK  | 460 |
| NTDB id 1366  | NTHI RS01950 WP 011271972.1    |  | .....TISP...DLWERNQQQQLLLRYFALPLKEEN...NRLWLGVDLSNLSACETIAFI...TGKPEPILLESS     | 84  |
| NTDB id 1355  | HI 0298 AAC21962.1             |  | .....TISP...DLWERNQQQQLLLRYFALPLKEEN...NRLWLGVDLSNLSACETIAFI...TGKPEPILLESS     | 84  |
| NTDB id 1384  | A4U84 RS08525 WP 010787006.1   |  | .....DISP...SRWQKNCEEKQLLLRYLAVPVQETE...HKLWLAVDDENNLTACEIFAFM...THKQIEPVVIASD  | 79  |
| NTDB id 1468  | ASU2 RS05090 WP 014991734.1    |  | .....DISE...SLWQKNCDEKHTLLRYLAIPQIEND...DTLWLAIDDMMNLSACEIFAFI...AHKTIIEPVLISSD | 78  |
| NTDB id 24904 | SESA RS01355 WP 000650608.1    |  | .....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...NLLLLAVSDPTLLQAEFEFRFA...TGLQVELALADHR  | 129 |
| NTDB id 1293  | VP RS12240 WP 005479695.1      |  | QPESLQY...ASLCQQLGLRELITRHNALPLHRT...STLLAVADPTNQAEEDFRFA...TGLQVELVLADFR       | 129 |
| NTDB id 1401  | DSB67 RS12665 WP 010643259.1   |  | CTSLNQY...ASLCQQLGLRDLITRHNALPLNRTS...STLILAVADPTNLQAEEDFRFA...TGLQVELVLADFR    | 129 |
| NTDB id 1251  | GCO85 RS07725 WP 011946523.1   |  | MLDINCIDV...GTIPVNLVNEKLIKRRHAMVPLFSRG...TNLYLATDPSKQASLKETQFH...TGLNTHAIVVETD  | 137 |
| NTDB id 1018  | ACIAD RS01685 WP 004920473.1   |  | LLDLGVFDP...ALFLKDKIDEKLIQKRYRIMPLVHRG...HVLYVATSNPTNIEAMDAIRFN...SKLKVPEIIVEHD | 137 |
| NTDB id 1058  | ABD1 RS01615 WP 001274986.1    |  | YFDLDVYDT...SQIPKDLVDQKLLIKHRILPLIQRG...QILYVATSNPSNIEAIDAIRFN...SKLLVPEVIVEHH  | 137 |
| consensus     |                                |  |   |     |





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| NTDB id   | Accession | Protein | Color Key      | Length |
|-----------|-----------|---------|----------------|--------|
| 1410      | SGL       | RS13950 | WP 010873519.1 | 672    |
| 1306      | DR        | RS10060 | WP 027479822.1 | 887    |
| 1366      | NTHI      | RS01950 | WP 011271972.1 | 464    |
| 1355      | HI        | 0298    | AAC21962.1     | 464    |
| 1384      | A4U84     | RS08525 | WP 010787006.1 | 461    |
| 1468      | ASU2      | RS05090 | WP 014991734.1 | 461    |
| 24904     | SESA      | RS01355 | WP 000650608.1 | 461    |
| 1436      | BW25113   | RS00530 | WP 001025145.1 | 461    |
| 1168      | A1552VC   | RS11070 | WP 000957200.1 | 562    |
| 1293      | VP        | RS12240 | WP 005479695.1 | 561    |
| 1401      | DSB67     | RS12665 | WP 010643259.1 | 561    |
| 1251      | GCO85     | RS07725 | WP 011946523.1 | 574    |
| 1018      | ACIAD     | RS01685 | WP 004920473.1 | 570    |
| 1058      | ABD1      | RS01615 | WP 001274986.1 | 570    |
| consensus |           |         |                |        |

KSALTCRTCAAELQQEWLDCPYCMTSRFS

- X non conserved
- X similar
- X ≥ 50% conserved