







logo



|  |          |                    |          |       |        |                      |        |        |          |          |          |        |       |          |          |          |          |          |          |          |     |     |          |     |
|--|----------|--------------------|----------|-------|--------|----------------------|--------|--------|----------|----------|----------|--------|-------|----------|----------|----------|----------|----------|----------|----------|-----|-----|----------|-----|
| NTDB id 410033 CAURIS RS06830 WP 290341200.1 | SVRCDVRR | IQLTKDGG           | ....DS   | CNRTR | LKVVK  | NKVS                 | PPFK   | VAEFD  | IMYGEGIS | ESSL     | IDMG     | VDNGL  | IVKKS | SGSWI    | TYE      | 302      |          |          |          |          |     |     |          |     |
| NTDB id 600 KW2 RS01765 WP 011675413.1       | SVRLDVR  | RGSTKIEEGS         | .GDNKTQI | GKITK | LKVVK  | NKVAPP               | PFK    | VALVD  | IMFGEGIS | STGEL    | LNI      | AVEEG  | IKK   | SGAWF    | AYN      | 312      |          |          |          |          |     |     |          |     |
| NTDB id 269 KZH43 RS08665 WP 001085462.1     | SVRLDVR  | GNTQIKGTG          | .DQK     | ETNV  | GKETK  | LKVVK                | NKVAPP | PFK    | EAVVE    | IMYGEGIS | KTGEL    | LKIASD | LDI   | IKK      | AGAWYSYK | 311      |          |          |          |          |     |     |          |     |
| NTDB id 228 SPD RS09265 WP 001085462.1       | SVRLDVR  | GNTQIKGTG          | .DQK     | ETNV  | GKETK  | LKVVK                | NKVAPP | PFK    | EAVVE    | IMYGEGIS | KTGEL    | LKIASD | LDI   | IKK      | AGAWYSYK | 311      |          |          |          |          |     |     |          |     |
| NTDB id 194 SPR RS08825 WP 001085462.1       | SVRLDVR  | GNTQIKGTG          | .DQK     | ETNV  | GKETK  | LKVVK                | NKVAPP | PFK    | EAVVE    | IMYGEGIS | KTGEL    | LKIASD | LDI   | IKK      | AGAWYSYK | 311      |          |          |          |          |     |     |          |     |
| NTDB id 159 SP RS09750 WP 001085462.1        | SVRLDVR  | GNTQIKGTG          | .DQK     | ETNV  | GKETK  | LKVVK                | NKVAPP | PFK    | EAVVE    | IMYGEGIS | KTGEL    | LKIASD | LDI   | IKK      | AGAWYSYK | 311      |          |          |          |          |     |     |          |     |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1   | SVRLDVR  | GSTQIKGTG          | .DQK     | DTNV  | GKETK  | LKVVK                | NKVAPP | PFK    | EAFVE    | IMYGEGIS | KTGEL    | LKIASD | LDI   | IKK      | AGAWYSYK | 311      |          |          |          |          |     |     |          |     |
| NTDB id 499 SM12261 RS08315 WP 078228268.1   | SVRLDVR  | GSTQIKGTG          | .DQK     | DTNV  | GKETK  | LKVVK                | NKVAPP | PFK    | EAFVE    | IMYGEGIS | KTGEL    | LKIASD | LDI   | IKK      | AGAWYSYK | 311      |          |          |          |          |     |     |          |     |
| NTDB id 453 Spy49 1753c ACI62003.1           | SVRLDVR  | GTTQIKGTG          | .DQK     | SS    | GKETK  | LKVVK                | NKVAPP | PFK    | EAVE     | IMYGEGIS | RTGEL    | VKIASD | LDI   | IKK      | AGAWFSYN | 311      |          |          |          |          |     |     |          |     |
| NTDB id 408 SMU RS09530 WP 002262392.1       | SVRLDVR  | GNTQIKGTG          | .EQK     | DS    | GKETK  | LKVVK                | NKVAPP | PFK    | EAFVE    | ITYGEGIS | RTGEL    | VKIASD | LGI   | IKK      | AGAWYSYN | 311      |          |          |          |          |     |     |          |     |
| NTDB id 115 BSU 16940 NP 389576.2            | SVRLEVR  | RRAEQLKQGN         | ....DVM  | GNKTK | LKVVK  | NKVAPP               | PFRT   | AEVD   | IMYGEGIS | KEGE     | IDL      | GTELD  | IVQK  | SGSWYS   | E        | 292      |          |          |          |          |     |     |          |     |
| NTDB id 625 LCA RS02525 WP 011374196.1       | TVRLEVR  | RAETIKNGT          | ....DM   | CNRAR | LKVVK  | NKVAPP               | PFK    | VAEVD  | IMYGC    | GISRT    | GEL      | VDMA   | VEKD  | IKK      | SGSWYSY  | 294      |          |          |          |          |     |     |          |     |
| NTDB id 1313 DR RS12030 WP 010888966.1       | SVRLDVR  | KKIGQ              | ....PTK  | VGNDA | VANTVK | LKVVK                | NKVA   | APPK   | EVELAL   | IVYCK    | GFDQL    | SDL    | VGLA  | ADMD     | IKK      | ACSFYSY  | 307      |          |          |          |     |     |          |     |
| NTDB id 1245 Cj1673c YP 002345041.1          | SVRLDVR  | KKVAT              | ....L    | KQNE  | EP     | CNRVK                | LKVVK  | NKVAPP | FRQA     | EFD      | IMFG     | EGEL   | SDY   | GVKLD    | IVDK     | SGAWFSYK | 294      |          |          |          |     |     |          |     |
| NTDB id 1211 C694 RS00795 WP 000963128.1     | SVRIDIR  | RIAS               | ....L    | KQNE  | QHI    | CNRAK                | LKVVK  | NKVAPP | FRQA     | EFD      | IMFG     | EGIS   | KEGE  | TDY      | GVKLD    | IVDK     | SGAWLSYQ | 296      |          |          |     |     |          |     |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1      | SVRIDIR  | RIAA               | ....L    | KQNE  | QHI    | CNRAK                | LKVVK  | NKVAPP | FRQA     | EFD      | IMFG     | EGIS   | KEGE  | TDY      | GVKLD    | IVDK     | SGAWLSYQ | 296      |          |          |     |     |          |     |
| NTDB id 1334 RAOC RS04870 WP 004918236.1     | SVRIDIR  | RRSLSDTGKIKDKSGEVI |          | CNR   | TKV    | LKVVK                | NKVAPP | PKSA   | EFD      | IMYGEC   | VSKV     | GEL    | LDV   | ATDL     | DI       | IKK      | SGWFSYQ  | 307      |          |          |     |     |          |     |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1    | SVRLDIR  | RCGV               | ....V    | KDGE  | EII    | GSETK                | LKVVK  | NKVAPP | FRV      | EQFD     | IMYGEGIS | RMNEL  | LIL   | AEANG    | FKK      | SGAWFSYD | 310      |          |          |          |     |     |          |     |
| NTDB id 1130 NGFG RS03960 WP 003688695.1     | SVRLDIR  | RTGS               | ....I    | KKGE  | EVL    | CNETR                | VKV    | LKNK   | VAPPFR   | QA       | EFD      | ILY    | GEGIS | WEGEL    | IDIG     | VKNDI    | IKK      | SGAWYSYN | 294      |          |     |     |          |     |
| NTDB id 1124 NGFG RS03960 WP 003688695.1     | SVRLDIR  | RTGS               | ....I    | KKGE  | EVL    | CNETR                | VKV    | LKNK   | VAPPFR   | QA       | EFD      | ILY    | GEGIS | WEGEL    | IDIG     | VKNDI    | IKK      | SGAWYSYN | 294      |          |     |     |          |     |
| NTDB id 1123 OK783 RS03845 WP 003688695.1    | SVRLDIR  | RTGS               | ....I    | KKGE  | EVL    | CNETR                | VKV    | LKNK   | VAPPFR   | QA       | EFD      | ILY    | GEGIS | WEGEL    | IDIG     | VKNDI    | IKK      | SGAWYSYN | 294      |          |     |     |          |     |
| NTDB id 1427 RS RS02760 WP 011000510.1       | SVRLDIR  | RIGS               | ....I    | KKGE  | EVV    | CNETK                | LKVVK  | NKVAPP | FR       | EAF      | FD       | ILY    | GACV  | SRE      | GEL      | IDL      | GV       | EAKV     | VEK      | SGAWYSYN | 302 |     |          |     |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1  | SVRLDIR  | RTGA               | ....I    | KEGE  | EVV    | CNETR                | LKVVK  | NK     | IA       | APPK     | EANTQ    | IMYGC  | GFNR  | REGEL    | IDL      | GVKHK    | MVEK     | SGAWYSYN | 293      |          |     |     |          |     |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1    | SVRLDIR  | RTGA               | ....I    | KEGE  | EVV    | CNETR                | LKVVK  | NK     | IA       | APPK     | EANTQ    | IMYGC  | GFNR  | REGEL    | IDL      | GVKHK    | MVEK     | SGAWYSYN | 293      |          |     |     |          |     |
| NTDB id 1205 PSJM300 05545 AFN77183.1        | SVRLDIR  | RTGA               | ....V    | KEGE  | EVV    | GSETR                | VKVVK  | NKVAPP | FRQA     | EFD      | ILY      | GKGI   | YR    | NGE      | IDL      | GV       | QQL      | VEK      | SGAWYAYK | 293      |     |     |          |     |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1    | SVRLDIR  | RIGQ               | ....V    | KEG   | EII    | GSETK                | LKVVK  | NK     | MAPP     | FR       | EAF      | IFQ    | ILY   | GK       | CV       | NQL      | GEL      | VD       | LA       | VQQ      | DI  | VQK | AGAWYSYQ | 293 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1     | SVRLDIR  | RIGQ               | ....V    | KEG   | EII    | GSETK                | LKVVK  | NK     | MAPP     | FR       | EAF      | IFQ    | ILY   | GK       | GT       | NQL      | GEL      | VD       | LA       | VQQ      | DI  | VQK | AGAWYSYQ | 293 |
| consensus                                    | *!!**!*! | *                  | *        | *     | *      | *****!***!!**!!**!!* | *      | *      | *****!*  | ***      | *****    | *      | ***   | ! !**!*! |          |          |          |          |          |          |     |     |          |     |

logo






|  |  |  |     |
|--|--|--|-----|
| NTDB id 410033 CAURIS RS06830 WP 290341200.1 | GDQIGGQKKEKARQFLKENPDSNEIEDKIFRKLQV      | GAYANAASGDELSD.DPVDMVPNIDFDEDDGAGEDLSLGTGSAD   | 381 |
| NTDB id 600 KW2 RS01765 WP 011675413.1       | DEKIGGQAEKAKNYLKEHQDVFEIDHKVRAAHG        | LLDDSEVAETEETETASKTKAKAK...KEEKAVETEEIELELED.. | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1     | DEKIGGQSENAKKYLAEHP EIFDEIDKQVRSKFG      | LIDGEEVSEQDTENKKDE...PK...KEEA..VNEEVPLDLGDEL  | 382 |
| NTDB id 228 SPD RS09265 WP 001085462.1       | DEKIGGQSENAKKYLAEHP EIFDEIDKQVRSKFG      | LIDGEEVSEQDTENKKDE...PK...KEEA..VNEEVPLDLGDEL  | 382 |
| NTDB id 194 SPR RS08825 WP 001085462.1       | DEKIGGQSENAKKYLAEHP EIFDEIDKQVRSKFG      | LIDGEEVSEQDTENKKDE...PK...KEEA..VNEEVPLDLGDEL  | 382 |
| NTDB id 159 SP RS09750 WP 001085462.1        | DEKIGGQSENAKKYLAEHP EIFDEIDKQVRSKFG      | LIDGEEVSEQDTENKKDE...PK...KEEA..VNEEVPLDLGDEL  | 382 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1   | DEKIGGQSENAKKYLADNPEVFAEIDHQVVRVQFG      | LIDGEEAAE...SKKDE...VA...QVDS..VNEEVTLDLGDDEL  | 378 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1   | DEKIGGQSENAKKYLADNPEVFAEIDHQVVRVQFG      | LIDGEEAAE...SKKDE...VA...QVDS..VNEEVTLDLGDDEL  | 378 |
| NTDB id 453 Spy49 1753c ACI62003.1           | GEKIGGQSENAKRYLADHPQLFDEIDRKVRVKFG       | LEESEEEESAMAVASE...E...TDDLALDLNNGI            | 374 |
| NTDB id 408 SMU RS09530 WP 002262392.1       | GEKIGGQSENAKKFLADNPEIFDDIDHKVVRVQFG      | IEEDNTEEEKQSSKEK...E...TDEK..ADKNLVLELDDTI     | 379 |
| NTDB id 115 BSU 16940 NP 389576.2            | EERLGGQRENAKQFLKENKDIIMLMIQEQIREHYGL     | DNNGVVQQAEETQEEL.EFE.E.....                    | 348 |
| NTDB id 625 LCA RS02525 WP 011374196.1       | SERIGGQRENAKNYLADHEDVEDEVRLKVRVAAAYG     | SDVPEEDLPTTEDE.QI.NILPD...DST...EE.....        | 355 |
| NTDB id 1313 DR RS12030 WP 010888966.1       | DERIGGQKKEKTIAVIAERPMEQEIRDRVMAA         | IRAGNAGEAPALAPAPAAPEAAAAE.....                 | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1          | DKKIGGQRENASKAFLKENPEIAD EITKATIQNSMGT   | EGMI...SGSEDDE..GEE.....                       | 343 |
| NTDB id 1211 C694 RS00795 WP 000963128.1     | DKKIGGQRENAKALLKEDKALADEITLKTRESIG       | SNEEI...MPLPDEP..LEEME.....                    | 347 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1      | DKKIGGQRENAKALLKEDKALADEITLKTRESIG       | SNEEI...MPLPDEP..LEEME.....                    | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1     | DTKIGGQRD TVKELTKDNPEIAEELAKITREKLQAK    | .....  | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1    | GTKIGGQKKNNAVKWLKENPEIADKLEQEI           | RNTLASNPNS...VLKATASDSNDESD..VEE...FSEEEL..... | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1     | GAKIGGQKDNVRVWLKENPEISDEIDAKTRALNCVEMHI  | ...TEGT...QDET..DGE...RPEE.....                | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1     | GAKIGGQKDNVRVWLKENPEISDEIDAKTRALNCVEMHI  | ...TEGT...QDET..DGE...RPEE.....                | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1    | GAKIGGQKDNVRVWLKENPEISDEIDAKTRALNCVEMHI  | ...TEGT...QDET..DGE...RPEE.....                | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1       | GERIGGQRDNCREFLRENAEIAREIENKVRREHLGV     | TPMG...AV.TLAEVEED.....                        | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1  | GDKIGGQKANACKYLLKENPEIAKTLDKKLREMLLNPNEM | ...QLIAETSSAADDVE..FGA...VPEEF.....            | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1    | GDKIGGQKANACKYLLKENPEIAKTLDKKLREMLLNPNEM | ...QLIAETSSAADDVE..FGA...VPEEF.....            | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1        | GSKIGGQKANAACKYLLKENPEIGQEIQQLRAKLLV     | TSAN...TKATPVAEDLADAD..I.....                  | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1    | GNKIGGQKNNVIRYLEENPQISTEIEAVIREQLLTKASD  | ...QTAA.HDETEEEPDL..LL...ES.....               | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1     | GNKIGGQKNNVIRYFEEENQIAEIEERNIREQLLTTGTN  | ...GAVQ.I.EDEEEDPD..LL...LES.....              | 349 |
| consensus                                    | **!!!** ** ** ** **                      |  |     |

logo

| NTDB id        | Accession                      | Conservation | Score |
|----------------|--------------------------------|--------------|-------|
| NTDB id 410033 | CAURIS RS06830 WP 290341200.1  | .....        | 381   |
| NTDB id 600    | KW2 RS01765 WP 011675413.1     | .....        | 387   |
| NTDB id 269    | KZH43 RS08665 WP 001085462.1   | EIEIEE       | 388   |
| NTDB id 228    | SPD RS09265 WP 001085462.1     | EIEIEE       | 388   |
| NTDB id 194    | SPR RS08825 WP 001085462.1     | EIEIEE       | 388   |
| NTDB id 159    | SP RS09750 WP 001085462.1      | EIEIEE       | 388   |
| NTDB id 527    | SMSK321 RS11065 WP 001085454.1 | EIEIEE       | 384   |
| NTDB id 499    | SM12261 RS08315 WP 078228268.1 | EIEIEE       | 384   |
| NTDB id 453    | Spy49 1753c ACI62003.1         | EIED..       | 378   |
| NTDB id 408    | SMU RS09530 WP 002262392.1     | ELED..       | 383   |
| NTDB id 115    | BSU 16940 NP 389576.2          | .....        | 348   |
| NTDB id 625    | LCA RS02525 WP 011374196.1     | .....        | 355   |
| NTDB id 1313   | DR RS12030 WP 010888966.1      | .....        | 363   |
| NTDB id 1245   | Cj1673c YP 002345041.1         | .....        | 343   |
| NTDB id 1211   | C694 RS00795 WP 000963128.1    | .....        | 347   |
| NTDB id 1214   | NCTC11637 00359 SQJ03206.1     | .....        | 347   |
| NTDB id 1334   | RAOC RS04870 WP 004918236.1    | .....        | 343   |
| NTDB id 1389   | A4U84 RS07560 WP 021112712.1   | .....        | 372   |
| NTDB id 1130   | NGFG RS03960 WP 003688695.1    | .....        | 348   |
| NTDB id 1124   | NGFG RS03960 WP 003688695.1    | .....        | 348   |
| NTDB id 1123   | OK783 RS03845 WP 003688695.1   | .....        | 348   |
| NTDB id 1427   | RS RS02760 WP 011000510.1      | .....        | 352   |
| NTDB id 1165   | A1552VC RS01565 WP 000344154.1 | .....        | 354   |
| NTDB id 1142   | GTF74 RS11550 WP 000344154.1   | .....        | 354   |
| NTDB id 1205   | PSJM300 05545 AFN77183.1       | .....        | 347   |
| NTDB id 1022   | ACIAD RS06390 WP 004925639.1   | .....        | 349   |
| NTDB id 1074   | ABD1 RS10195 WP 000344167.1    | .....        | 349   |

consensus

-  non conserved
-  similar
-  ≥ 50% conserved