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|----------------------------------------------|--------------------------------------------------------------------------------|-----|
| NTDB id 1313 DR RS12030 WP 010888966.1 | SVRLDVRKIGQ...PTKVGNDAVANTVKIKTVKNKVAAPPFKEVELAVYCGKGFQQLSDLVGLAA...DMDIKKAGSF | 303 |
| NTDB id 1245 Cj1673c YP 002345041.1 | SVRLDVRKVAT...L.KQNEEPIGNRVKVVVKNKVAPPFQAEFDVVFGECHSEGELIDYGV...KLDIVDKSGAW | 290 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 | SVRIDIRRIAA...L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGELIDYGV...KLDIVDKSGAW | 292 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 | SVRIDIRRIAS...L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGELIDYGV...KLDIVDKSGAW | 292 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 | SVRIDIRRLSDTGKIKDKSGEVIENRTKVVVKNKVAPPFSAEFDIMYGEGVSKVGEILDVAT...DLDIQKSGSW | 303 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | SVRLDIRRCGV...V.KDGEIIGSETKVVVKNKVAPPFREVFQFDIMYGEGISRMNELLILAE...ANGFIKKS | 306 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 | SVRLDIRRTGS...I.KKGEVVLGNETRVKVIKNKVAPPFQAEFDILYGEGISWEGELIDIGV...KNDIINKSGAW | 290 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 | SVRLDIRRTGS...I.KKGEVVLGNETRVKVIKNKVAPPFQAEFDILYGEGISWEGELIDIGV...KNDIINKSGAW | 290 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 | SVRLDIRRTGS...I.KKGEVVLGNETRVKVIKNKVAPPFQAEFDILYGEGISWEGELIDIGV...KNDIINKSGAW | 290 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | SVRLDIRRIGS...I.KKGEVVLGNETKVVVKNKVAPPFREAIFDILYGAQVSEGEITDLGV...EAKVVEKSGAW | 298 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | SVRLDIRRTGA...I.KEGEVVLGNETRIKVVKNKIAPPFKEANTQIMYCGFNRREGELIDLGV...KHKMVEKSGAW | 289 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 | SVRLDIRRTGA...I.KEGEVVLGNETRIKVVKNKIAPPFKEANTQIMYCGFNRREGELIDLGV...KHKMVEKSGAW | 289 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | SVRLDIRRTGA...V.KEGEVVLGNETRVVVVKNKVAPPFQAEFQILYCGKGIYRNGEITDLGV...QQGLVEKSGAW | 289 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | SVRLDIRRIGQ...V.KEGEIIGSETKVVVKNKMAPPFREAIFQILYCGKGNLQELVDLAV...QQNIVQKAGAW | 289 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 | SVRLDIRRIGQ...V.KEGEIIGSETKVVVKNKMAPPFKEAIFQILYCGKGNLQELVDLAV...QQDIVQKAGAW | 289 |
| NTDB id 59616 LOCK900 RS12175 WP 005714152.1 | SVRLEVRKGGQVKDQK...NVVGFASKLKVTKNKVAPPFKTVETTMSECHGIEHNTDMINLATDKDNDLDVITKSGSW | 307 |
| NTDB id 600 KW2 RS01765 WP 011675413.1 | SVRLDVRGSTKIEEGS.GDNKTQIGKIKTKVVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAV...EEGIKKSGAW | 308 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | SVRLDVRGNTQIKGTG.DQKETTNGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW | 307 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | SVRLDVRGNTQIKGTG.DQKETTNGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW | 307 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | SVRLDVRGNTQIKGTG.DQKETTNGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW | 307 |
| NTDB id 159 SP RS09750 WP 001085462.1 | SVRLDVRGNTQIKGTG.DQKETTNGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW | 307 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | SVRLDVRGNTQIKGTG.DQKETTNGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW | 307 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | SVRLDVRGNTQIKGTG.DQKETTNGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIAS...DLDIKKAGAW | 307 |
| NTDB id 453 Spy49 1753c ACI62003.1 | SVRLDVRGTTQIKGTG.DQKSSIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIAS...DLDIQKAGAW | 307 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIAS...DLGIQKAGAW | 307 |
| NTDB id 625 LCA RS02525 WP 011374196.1 | TVRLEVRRAETIKNGT...DMIGNRARIKVVKNKVAPPFKVAEVDIMYCGGISRTGELVDMAV...EKDIINKSGSW | 290 |
| NTDB id 115 BSU 16940 NP 389576.2 | SVRLEVRRAEQLKQGN...DVMGNKTKIKVVKNKVAPPFKVAEVDIMYGEGISKEGELIDLGT...ELDIVQKSGSW | 288 |
| consensus | *!!**!* * * * * * !*!!*!!*!!* * * * * * !*!* * * * * * * * * * * ! !* * * | |

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|----------------------------------------------|--------------------------------------------------------------|-----|
| NTDB id 1313 DR RS12030 WP 010888966.1 | YSYGDERIGQCKEKTIAVIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA | 363 |
| NTDB id 1245 Cj1673c YP 002345041.1 | FSYKDKKIGQGRENKAFLEKENPEIADKTKAIQNSMCIIEGMI | 343 |
| NTDB id 1214 NCTC11637 00359 SQJ03206.1 | LSYQDKKIGQGRENAKALLKEDKALADEITLKIRESIGSNEEI | 347 |
| NTDB id 1211 C694 RS00795 WP 000963128.1 | LSYQDKKIGQGRENAKALLKEDKALADEITLKIRESIGSNEEI | 347 |
| NTDB id 1334 RAOC RS04870 WP 004918236.1 | FSYQDTKIGQGRDITVKELTKDNPEIAEELAKITREKLQAK | 343 |
| NTDB id 1389 A4U84 RS07560 WP 021112712.1 | FSYDGTKIGQCKNNVAVKWLKENPEIADKLEQEIIRNTLASNPNS | 372 |
| NTDB id 1130 NGFG RS03960 WP 003688695.1 | YSYNGAKIGQCKDNVVRVWLKENPEISDEIDAKITRALNCEMHI | 348 |
| NTDB id 1124 NGFG RS03960 WP 003688695.1 | YSYNGAKIGQCKDNVVRVWLKENPEISDEIDAKITRALNCEMHI | 348 |
| NTDB id 1123 OK783 RS03845 WP 003688695.1 | YSYNGAKIGQCKDNVVRVWLKENPEISDEIDAKITRALNCEMHI | 348 |
| NTDB id 1427 RS RS02760 WP 011000510.1 | YSYNGERIGQGRDNCREFLRNNAELAREIENKIVREHLGVTPMG | 352 |
| NTDB id 1165 A1552VC RS01565 WP 000344154.1 | YSYNGDKIGQCKANACKYLKENPEIAKTLDDKKIREMLLNPNEM | 354 |
| NTDB id 1142 GTF74 RS11550 WP 000344154.1 | YSYNGDKIGQCKANACKYLKENPEIAKTLDDKKIREMLLNPNEM | 354 |
| NTDB id 1205 PSJM300 05545 AFN77183.1 | YAYKGSKIGQCKANAAKYLEENPEIIGQEIEQQITRAKLLVTSAN | 347 |
| NTDB id 1022 ACIAD RS06390 WP 004925639.1 | YSYQGNKIGQCKNNVIRYLFENNQIAEIEIRNIREQLLTGTN | 349 |
| NTDB id 1074 ABD1 RS10195 WP 000344167.1 | YSYQGNKIGQCKNNVIRYLFENNQIAEIEIRNIREQLLTGTN | 349 |
| NTDB id 59616 LOCK900 RS12175 WP 005714152.1 | YNYGKERLGGQLVNAASHYLDEHPVSKIEIAKIREQSA | 386 |
| NTDB id 600 KW2 RS01765 WP 011675413.1 | FAYNDEKIGQCAEKAKNYLKEHQDVFEIDHKVRAAHCLLDDSEVAETEET | 387 |
| NTDB id 269 KZH43 RS08665 WP 001085462.1 | YSYKDEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFC | 381 |
| NTDB id 228 SPD RS09265 WP 001085462.1 | YSYKDEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFC | 381 |
| NTDB id 194 SPR RS08825 WP 001085462.1 | YSYKDEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFC | 381 |
| NTDB id 159 SP RS09750 WP 001085462.1 | YSYKDEKIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFC | 381 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1 | YSYKDEKIGQGSSENAKKYLADNPEVFAEIDHQVVRVQFC | 377 |
| NTDB id 499 SM12261 RS08315 WP 078228268.1 | YSYKDEKIGQGSSENAKKYLADNPEIFDEIDHQVVRVQFC | 377 |
| NTDB id 453 Spy49 1753c ACI62003.1 | FSYNGEKIGQGSSENAKRYLADHPQLFDEIDRKVVRVKFC | 373 |
| NTDB id 408 SMU RS09530 WP 002262392.1 | YSYNGEKIGQGSSENAKFLADNPEIFDDIDHKVVRVQFC | 378 |
| NTDB id 625 LCA RS02525 WP 011374196.1 | YSYGSERIGQGRENAKNYLADHEDVEDEVRLKVRVAYG | 355 |
| NTDB id 115 BSU 16940 NP 389576.2 | YSYEEERLIGQGRENAKQFLKENKDIIMLMIQEQIREHYGL | 348 |
| consensus | ***! ***!!!***** ** * *** ***** ** ** | |

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| NTDB id | Accession | Sequence | Score |
|---------------|--------------------------------|-----------|-------|
| NTDB id 1313 | DR RS12030 WP 010888966.1 | | 363 |
| NTDB id 1245 | Cj1673c YP 002345041.1 | ..... | 343 |
| NTDB id 1214 | NCTC11637 00359 SQJ03206.1 | ..... | 347 |
| NTDB id 1211 | C694 RS00795 WP 000963128.1 | ..... | 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 |
| NTDB id 59616 | LOCK900 RS12175 WP 005714152.1 | SSFGVDRLV | 395 |
| NTDB id 600 | KW2 RS01765 WP 011675413.1 | ..... | 387 |
| NTDB id 269 | KZH43 RS08665 WP 001085462.1 | LEIEIEE.. | 388 |
| NTDB id 228 | SPD RS09265 WP 001085462.1 | LEIEIEE.. | 388 |
| NTDB id 194 | SPR RS08825 WP 001085462.1 | LEIEIEE.. | 388 |
| NTDB id 159 | SP RS09750 WP 001085462.1 | LEIEIEE.. | 388 |
| NTDB id 527 | SMSK321 RS11065 WP 001085454.1 | LEIEIEE.. | 384 |
| NTDB id 499 | SM12261 RS08315 WP 078228268.1 | LEIEIEE.. | 384 |
| NTDB id 453 | Spy49 1753c ACI62003.1 | IEIED.... | 378 |
| NTDB id 408 | SMU RS09530 WP 002262392.1 | IELED.... | 383 |
| NTDB id 625 | LCA RS02525 WP 011374196.1 | ..... | 355 |
| NTDB id 115 | BSU 16940 NP 389576.2 | ..... | 348 |

consensus

- ⊠ non conserved
- ⊠ similar
- ⊠ ≥ 50% conserved