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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRRAETIKNGT....DM	IGNRARIKVVKNKVAPPFKVAEVDIMYGGGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 115908 A423 RS07610 WP 003732286.1	TVRLEVRRRAEQLKQGT....DV	MGNKTKIKVVKNKVAPPFRFAEVDIMYGGEGISREGELVDMAAEVDVINKSGSWYSYK	292
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN....DV	MGNKTKIKVVKNKVAPPFRFAEVDIMYGGEGISKEGEIDLGTELDIVQKSGSWYSYE	292
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQ	IGKITIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIINKSGAWFAYN	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEVVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDS	IGKETKIKVVKNKVAPPFKVAEVEIMYGGEGISRTGELVKIASDLDIQKAGAWFSYN	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEAFVEIYGGEGISRTGELVKIASDLGIQKAGAWYSYN	311
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTVKNKVAAPFKLEVELALVYGGKGFQDLSDLVGLAADMDIINKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKIVAT....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDMVFGGELSREGELIDYGVKLDIVDKSGAWFSYK	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQH	IGNRAKAKVVKNKVAPPFRFAEAFDIMFGEGISKEGETIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQH	IGNRAKAKVVKNKVAPPFRFAEAFDIMFGEGISKEGETIDYGVKLDIVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRSLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSAEFDIMYGGEGVSKVGEILDVATDLDIQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KGDDEI	IGSETKVVKNKVAPPFRFREVQFDIMYGGEGISRMNELLILAEANGFIKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGEV	VGNETKVVKNKVAPPFRFAEAFDILYGGAGVSREGEIDLGVKNDIVVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEV	VGNETRIKVVKNKIAAPFKAEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEV	VGNETRIKVVKNKIAAPFKAEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	VGSETKVVKNKMAPPFKAEAFQILYGGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	IGSETKVVKNKMAPPFKAEAFQILYGGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEV	VGSETRVKVVKNKVAPPFRQAEFQILYGGKIYRNGEIDLGVQQGLVEKSGAWAYK	293
consensus	*!!**!* *	* ** *****!!*!!*!!*! * *****!*!*** **	*** ! !*****!

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 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 1245 Cj1673c YP 002345041.1
 NTDB id 1211 C694 RS00795 WP 000963128.1
 NTDB id 1214 NCTC11637 00359 SQJ03206.1
 NTDB id 1334 RAOC RS04870 WP 004918236.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 NTDB id 1130 NGFG RS03960 WP 003688695.1
 NTDB id 1124 NGFG RS03960 WP 003688695.1
 NTDB id 1123 OK783 RS03845 WP 003688695.1
 NTDB id 1427 RS RS02760 WP 011000510.1
 NTDB id 1165 A1552VC RS01565 WP 000344154.1
 NTDB id 1142 GTF74 RS11550 WP 000344154.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1205 PSJM300 05545 AFN77183.1

consensus



SERIGQGR¹ENAK²NYLAD³HD⁴VE⁵DEV⁶RLK⁷VRAAY⁸GIS⁹SDVPEEDLPTTEDEQINILPDDSTEE..... 355
 EERIGQGR¹ENAK²QYLKEHTDIR³DEIS⁴KRVREEYE⁵IDGSSKEPLD..EKEETLSLLDDE..... 348
 EERLGQGR¹ENAK²QFLKENKDIMLMIQE³QIREHYGL⁴DNNGVVQQAEETQEELEFEE..... 348
 DEKIGQGA¹EKAK²NYLKEHQ³DV⁴FDEID⁵HKVRAAHGL⁶LDDSEVAETEETETASKTKAKAKKEEKAVETEEIELELED..... 387
 DEKIGQGS¹ENAK²KYLA³AHPEIF⁴DEID⁵KQVRSK⁶FGL⁷LIDGEEVSEQD⁸TENKKDE....PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGS¹ENAK²KYLA³AHPEIF⁴DEID⁵KQVRSK⁶FGL⁷LIDGEEVSEQD⁸TENKKDE....PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGS¹ENAK²KYLA³AHPEIF⁴DEID⁵KQVRSK⁶FGL⁷LIDGEEVSEQD⁸TENKKDE....PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGS¹ENAK²KYLA³AHPEIF⁴DEID⁵KQVRSK⁶FGL⁷LIDGEEVSEQD⁸TENKKDE....PKKEEA..VNEEVPLDLGDELEIE 385
 DEKIGQGS¹ENAK²KYLADN³PEIF⁴DEID⁵HQV⁶RVVQ⁷FGL⁸LIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIE 381
 DEKIGQGS¹ENAK²KYLADN³PEVFA⁴IDH⁵QV⁶RVVQ⁷FGL⁸LIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIE 381
 GEKIGQGS¹ENAK²RYLADHP³QLF⁴DEID⁵RK⁶V⁷RVK⁸FGL⁹LEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE 377
 GEKIGQGS¹ENAK²KFLADN³PEIF⁴DD⁵ID⁶H⁷K⁸V⁹RV¹⁰Q¹¹YGL¹²IEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE 382
 DE¹RIGQGR²KEK³TIAY⁴IA⁵ERP⁶EME⁷QE⁸IR⁹DR¹⁰VMAA¹¹IRAGNAGEAPALAPAPAAPEAAEA..... 363
 DKKL¹GQGR²ENSKA³FL⁴KEN⁵PEI⁶ADEI⁷TKA⁸I⁹QNSM¹⁰G¹¹IEGMI....SGSEDDE..GEE..... 343
 DKKL¹GQGR²ENAK³ALL⁴KEDKAL⁵ADEI⁶TLK⁷IKESIG⁸SNEEI....MPLPDEP..LEEME..... 347
 DKKL¹GQGR²ENAK³ALL⁴KEDKAL⁵ADEI⁶TLK⁷IKESIG⁸SNEEI....MPLPDEP..LEEME..... 347
 DT¹KL²GQGR³RD⁴TV⁵KEL⁶IK⁷DN⁸PEL⁹A¹⁰EEL¹¹EAK¹²IREKLQAK..... 343
 GT¹KIGQGR²K³NAV⁴W⁵LKEN⁶PEI⁷AD⁸KLE⁹QE¹⁰IR¹¹N¹²T¹³LASN¹⁴PNS....VLKATASDSNDES¹⁵DVEE..FSEEEL..... 372
 GAKIGQGR¹KDN²V³RV⁴WLKEN⁵PEI⁶SDEI⁷DAK⁸IRAL⁹NG¹⁰VEMHI....TEGTQDET¹¹.....GE..RPEE..... 348
 GAKIGQGR¹KDN²V³RV⁴WLKEN⁵PEI⁶SDEI⁷DAK⁸IRAL⁹NG¹⁰VEMHI....TEGTQDET¹¹.....GE..RPEE..... 348
 GAKIGQGR¹KDN²V³RV⁴WLKEN⁵PEI⁶SDEI⁷DAK⁸IRAL⁹NG¹⁰VEMHI....TEGTQDET¹¹.....GE..RPEE..... 348
 GERIGQGR¹DN²CR³EFL⁴RENA⁵E⁶LARE⁷IEN⁸KV⁹REHL¹⁰GV¹¹TPMG....AV.TLAEVEED..... 352
 GDKIGQGR¹KAN²ACK³YLKEN⁴PEI⁵AK⁶TL⁷DK⁸KL⁹REML¹⁰LN¹¹PENM....QLIAETSSAADDVEFGA..VPEEF..... 354
 GDKIGQGR¹KAN²ACK³YLKEN⁴PEI⁵AK⁶TL⁷DK⁸KL⁹REML¹⁰LN¹¹PENM....QLIAETSSAADDVEFGA..VPEEF..... 354
 GNKIGQGR¹KNN²VIR³YFE⁴ENN⁵QIA⁶E⁷E⁸IR⁹NIRE¹⁰QL¹¹LT¹²TG¹³TN....GAVQ.I.EDEE¹⁴EPD..L..LLES..... 349
 GNKIGQGR¹KNN²VIR³YLE⁴EN⁵PQ⁶ISTE⁷IE⁸AV⁹IRE¹⁰QL¹¹LT¹²TK¹³ASD....QTAA.HDETEE¹⁴EPD..L..LLES..... 349
 GSKIGQGR¹KAN²AAK³YLE⁴EN⁵PEI⁶IG⁷QE⁸IE⁹QQ¹⁰IRAK¹¹LL¹²V¹³TSAN....TKATPVAEDLADAD..I..... 347

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NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
NTDB id 159 SP RS09750 WP 001085462.1	IEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 1313 DR RS12030 WP 010888966.1	...	363
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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 1074 ABD1 RS10195 WP 000344167.1	...	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347

consensus

 non conserved
 similar
 ≥ 50% conserved