

logo

NTDB id 378742 FUT82 RS10735 WP 024753396.1	.MAK.....A.VKMEIPVNaNP	EEKLKALEAARLQIEKQFGQGSLMKLGKDNAATGVDVTPSGNII	LD	DEALGIGGYPRGR	73	
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NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDIALGSGGYPKGR	73	
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NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFG	DERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDIALGAGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFG	DERKKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVMSSGSLALDIALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK	.TDTRI	STVPSGSLALD	TALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK	.VDTQV	STVSSGSLALDEALGVGGYPRGR		60	
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE	.SKLDVQV	VSTGSLSLDLALGVGGIPRGR		72	
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQID	ISTGSGVGLDLALGIGGVPRGR	59	
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQIDKVF	FGKGALVRLGDK	.QVEKID	ISTGSLGLDLALGIGGVPRGR	61	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQIDKVF	FGKGALVRLGDK	.QVEKID	ISTGSLGLDLALGIGGVPRGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTSNDDKKKALA	AVLEKLDKTYGKGTVMKLG	DGTVDHNI	IEVIPS	SGSLGLDLALGVGGYPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQKKQ	ALEAALAQIEKQFGKGSIMKLGQT	.EQLD	IESVSTGSLGLDLALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QREENLEVISTGSLGLDLALGVGGLPRGR		60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QREENLEVISTGSLGLDLALGVGGLPRGR		60	
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NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQK	ALAAALAQIEKQFGKGSIMKMGDA	.EVEPVQV	VSTGSLGLDVALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQK	ALAAALGQIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLDIALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQK	ALAAALGQIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLDIALGAGGLPMGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSK	ALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLDIALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSK	ALQAALSQIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLDIALGIGGLPKGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKR	ALAAALGQIEKQFGKGAVMRMGDH	.DRQAIP	ISTGSLGLDIALGIGGLPKGR	59	
consensus	*** **	***	***!	*****	*	***!***!!*!!! !! !*!!

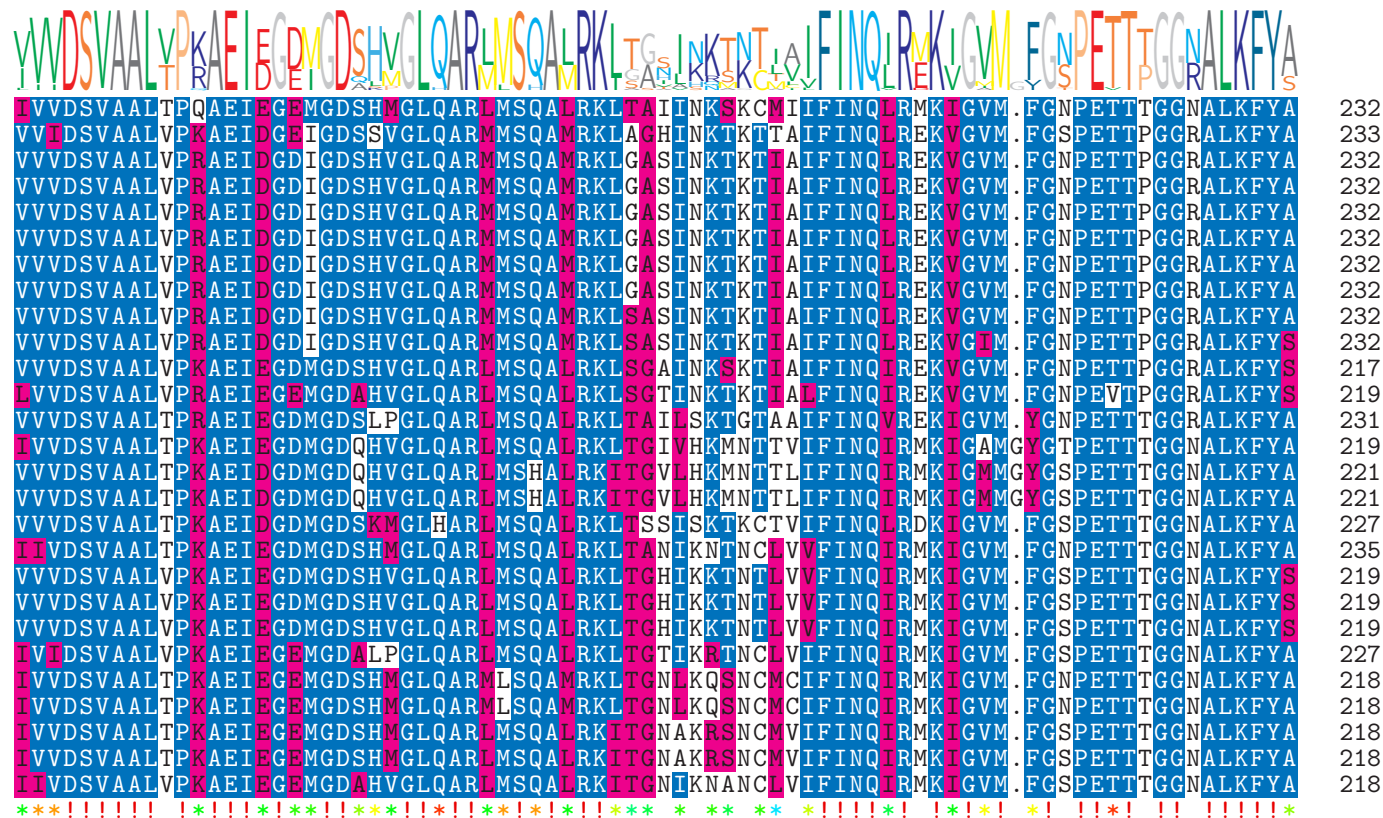
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NTDB id 269 KZH43 RS08665 WP 001085462.1	IIEIYGPESSGKTTVALHAVA	153
NTDB id 228 SPD RS09265 WP 001085462.1	IIEIYGPESSGKTTVALHAVA	153
NTDB id 194 SPR RS08825 WP 001085462.1	IIEIYGPESSGKTTVALHAVA	153
NTDB id 159 SP RS09750 WP 001085462.1	IIEIYGPESSGKTTVALHAVA	153
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IIEIYGPESSGKTTVALHAVA	153
NTDB id 499 SM12261 RS08315 WP 078228268.1	IIEIYGPESSGKTTVALHAVA	153
NTDB id 453 Spy49 1753c ACI62003.1	IIEIYGPESSGKTTVALHAVA	153
NTDB id 408 SMU RS09530 WP 002262392.1	IVEIYGPESSGKTTVALHAVA	153
NTDB id 115 BSU 16940 NP 389576.2	IIEIYGPESSGKTTVALHAVA	138
NTDB id 625 LCA RS02525 WP 011374196.1	IVEIYGPESSGKTTVALHAVA	140
NTDB id 1313 DR RS12030 WP 010888966.1	ITEIYGPESSGKTTVALHAVA	152
NTDB id 1245 Cj1673c YP 002345041.1	IIEIYGPESSGKTTTLHLIA	139
NTDB id 1211 C694 RS00795 WP 000963128.1	IIEIYGPESSGKTTLSLHIA	141
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IIEIYGPESSGKTTLSLHIA	141
NTDB id 1334 RAOC RS04870 WP 004918236.1	IVEIYGPESSGKTTTLHLIA	148
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IVEIYGPESSGKTTTLSLIA	156
NTDB id 1130 NGFG RS03960 WP 003688695.1	IVEIFGPESSGKTTLCLEAVA	140
NTDB id 1124 NGFG RS03960 WP 003688695.1	IVEIFGPESSGKTTLCLEAVA	140
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NTDB id 1427 RS RS02760 WP 011000510.1	VVEIYGPESSGKTTTLQVVA	148
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVEIFGPESSGKTTTLLELIA	139
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVEIFGPESSGKTTTLLELIA	139
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVEIYGPESSGKTTMTLQAI	139
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IIEIYGPESSGKTTMTLQAI	139
NTDB id 1205 PSJM300 05545 AFN77183.1	IVEIYGPESSGKTTTLTSLV	139
consensus	***!***!!!!*!!!!*! *!*! !* ** !***!!!!*!* *! !!*****!***!!!!*!!!!*!*! * ****!***!*	

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NTDB id 378742 FUT82 RS10735 WP 024753396.1
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NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 1313 DR RS12030 WP 010888966.1
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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 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 378742 FUT82 RS10735 WP 024753396.1	SIRIEVRKTDITLGKGE...EEAWGNMVRIRVVKNKLAPPFRKLETEILFGKGFSIFGSILDAVVKQEIIDKKGAWYSYG	308
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITIKVVKKNKVAPPFKVALVDIMFGEGISSTGELLNTAVEEGI IKKSGAWFAYN	312
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTNVGKETKIKVVKKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI IKKAGAWYSYK	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSSIGKETKIKVVKKNKVAPPFKEAFVEIMYGEGISRTGELVKIASDLDIIQKAGAWFSYN	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKKNKVAPPFKEAFVEIITYGEGISRTGELVKIASDLGIIQKAGAWYSYN	311
NTDB id 115 BSU 16940 NP 389576.2	SVRLDVRRAEQLKQGN.....DVMGNKTKIKVVKKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDI VQKSGSWYSYE	292
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLDVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGGISRTGELVDMAVEKDI INKSGSWYSYG	294
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAAVANTVKIKTVKNKVAAPFKEVELALVYGKGFDQLSDLVGLAADMDI IKKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEPIGNRVKVVVKKNKVAPPFRQAEDVDMFGEGLSREGELIDYGVKLDI VDKSGAWFSYK	294
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEDDIMFGEGISKEGEIIDYGVKLDI VDKSGAWLSYQ	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQHIGNRAKAKVVKNKVAPPFRQAEDDIMFGEGISKEGEIIDYGVKLDI VDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIGNRTKVVVKNKVAPPFKSAEFDIMYGEGVSKVGEILDVATDLDI IQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDIEIGSETKVVKVKNKVAPPFRREVQFDIMYGEGISRMNELLILAEANGFIKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEDDILYGEGISWEGELIDIGVKNDI INKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEDDILYGEGISWEGELIDIGVKNDI INKSGAWYSYN	294
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVRKVIKNKVAPPFRQAEDDILYGEGISWEGELIDIGVKNDI INKSGAWYSYN	294
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGDDEVVGNETKVVKVKNKVAPPFRQAEDDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVKVKNKMAPPFRQAEIFQILYGKGYNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIVGSETKVVKVKNKMAPPFRQAEIFQILYGKGYNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEDFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWAYK	293
consensus	***!***!* * ** *****!!*!!*!!* * *****!*!*** ***** ** *** ! !*****!	

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NTDB id 378742 FUT82 RS10735 WP 024753396.1	EEKIGQGKENATKFLQENLDITMQIEKQIREKLFPGQKFVSSFAAKPQTAPATEEK.KTAAAVAE...KPVKDTDKTDKTG	384
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLDDSEVAETE...E..ETTAS.KTKAKAKKEEKAVETEEIELELE	386
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQD...T..ENKKD.E...PKKEEA..VNEEVPLDLG	379
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQD...T..ENKKD.E...PKKEEA..VNEEVPLDLG	379
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQD...T..ENKKD.E...PKKEEA..VNEEVPLDLG	379
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQD...T..ENKKD.E...PKKEEA..VNEEVPLDLG	379
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGSENAKKYLAADNPEVFAEIDHQVRVQFGLIDGEEAAE.....SKKD.E...VAQVDS..VNEEVTLDLG	375
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGSENAKKYLAADNPEIFDEIDHQVRVQFGLIDGEEIAE.....SKKD.E...AAQVDS..VNEEVTLDLG	375
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAM...A..VASE.....E.....TDDLALDLD	371
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQ...S..SKEK.....ETDEK..ADKNLVLELD	376
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGRENAKQFLKENKDIMLMIQEQUIREHYGLDNGGVVQQQA...E..ETQEE.L.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGRENAKNYLADHEDVEDEVRLKVRAAAYGTSADVPEEDLPT...T..EDE.Q.I.NILPDDST.....EE.....	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA.....	363
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NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI....MPLPDE..PLEEME.....	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGRENAKALLKEDKALADEITLKIKESIGSNEEI....MPLPDE..PLEEME.....	347
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NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PE.....E.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQKDNVRVWLKENPEISDEIDAKIRALNGVEMHI....TEGTQDETGDGER.....PE.....E.....	348
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPENM....QLIAETSSAADDVEFGAVPE.....EF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPENM....QLIAETSSAADDVEFGAVPE.....EF.....	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASD....QTAA.HDETEEEPDLL..ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGTN....GAVQ.I.EDEEEPDLL..LE.....S.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSAN....TKATPVAEDLADADI.....	347
consensus	***!!!***** ** ***** ***** ** *	

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NTDB id 378742 FUT82 RS10735 WP 024753396.1	KKEENEPAEKKQEEPAAKNAKPAAQQIFDDKDGLF	419
NTDB id 600 KW2 RS01765 WP 011675413.1	D.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DE.....LEIEIEE.....	388
NTDB id 228 SPD RS09265 WP 001085462.1	DE.....LEIEIEE.....	388
NTDB id 194 SPR RS08825 WP 001085462.1	DE.....LEIEIEE.....	388
NTDB id 159 SP RS09750 WP 001085462.1	DE.....LEIEIEE.....	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DE.....LEIEIEE.....	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	DE.....LEIEIEE.....	384
NTDB id 453 Spy49 1753c ACI62003.1	NG.....IEIED.....	378
NTDB id 408 SMU RS09530 WP 002262392.1	DT.....IELED.....	383
NTDB id 115 BSU 16940 NP 389576.2		348
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NTDB id 1214 NCTC11637 00359 SQJ03206.1		347
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NTDB id 1389 A4U84 RS07560 WP 021112712.1		372
NTDB id 1130 NGFG RS03960 WP 003688695.1		348
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NTDB id 1165 A1552VC RS01565 WP 000344154.1		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1		354
NTDB id 1022 ACIAD RS06390 WP 004925639.1		349
NTDB id 1074 ABD1 RS10195 WP 000344167.1		349
NTDB id 1205 PSJM300 05545 AFN77183.1		347
consensus		

-  non conserved
-  similar
-  ≥ 50% conserved