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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK.....TNFDDITKKYGAERDKALADALALIEKD	FGKGSIMRLGER.A	ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74	
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP.....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP.....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP.....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP.....KKLEEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP.....KKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP.....KKLDEISKKFGE	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVMSSGSLALDI	ALGSGGYPKGR	73	
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI.....KKTEEITKKFGE	DERKKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL.....KKNEEITKKFGE	DERRKALDDALKNIEKD	FGKGVMLRGER	.AEQKVQVMSSGSLALDI	ALGAGGYPKGR	73	
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQ	FGKGSIMKLG	EK.TDTR	ISTVPSGSLALDI	TALGIGGYPRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKN	FGKGSIMRMGEK	.VDTQVSTVSSGSLALDE	ALGVGGYPRGR		60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKAT	ETAMSI	EKA	FGKGSIMKLGAE	.SKLDVQVSTGSLSLDLALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDS	IGTGSVGLDLALGIGGVPKGR		59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQID	KVFGKGA	LVRLGDK	.QVEKIDA	ISTGSLGLDLALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQID	KVFGKGA	LVRLGDK	.QVEKIDS	ISTGSLGLDLALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPPDDKKK	ALAAVLEKLDKTYGKGTVMKLG	GD	TVDHNIEV	IPSGSLGLDLALGVGGYPKGR	68
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QENLEV	ISTGSLGLDLALGVGGLPRGR		60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QENLEV	ISTGSLGLDLALGVGGLPRGR		60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKS	FGKGAIMKMDGSQ	QENLEV	ISTGSLGLDLALGVGGLPRGR		60
NTDB id 149668 ACU14 RS08635 WP 014503651.1	.....MDENKKRALSAALSQIEKQ	FGKGSVMRMGDR	.VIEAVEV	IPGSLMLDI	TALGTGGLPKGR	59
NTDB id 1427 RS RS02760 WP 011000510.1MEDGK..KAASMSAEKQK	ALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQV	VSTGSLGLDV	ALGVGGLPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKS	SKNNTV.VKQVEPEKQKQ	ALEAALAQIEKQ	FGKGSIMKLGQT	.EQLDIESVSTGSLGLDLALGIGGLPMGR	76	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLDI	TALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLDI	TALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLDI	TALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLDI	TALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKRALAAALGQIEKQ	FGKGVMRMGDH	.DRQAIPS	ISTGSLGLDI	TALGIGGLPKGR	59	
consensus	*** ** *	***! *!*****	*	***!****!!	!!	***!	

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NTDB id 600 KW2 RS01765 WP 011675413.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	E	Y	A	K	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	Y	G	E	Q	G	L	I	A	E	K	L	I	T	S	G	A	V	D	L		
NTDB id 269 KZH43 RS08665 WP 001085462.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	
NTDB id 228 SPD RS09265 WP 001085462.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	
NTDB id 194 SPR RS08825 WP 001085462.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	
NTDB id 159 SP RS09750 WP 001085462.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	
NTDB id 499 SM12261 RS08315 WP 00272228268.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	
NTDB id 408 SMU RS09530 WP 002262392.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	S	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	
NTDB id 453 Spy49 1753c ACI62003.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	A	V	Q	K	E	G	G	I	A	A	F	I	D	A	E	H	A	L	D	P	A	Y	A	A	A	L	G	V	N	I	D	E	L	L	A	Q	P	D	S	G	E	Q	G	L	E	I	A	G	K	L	I	D	S	G	A	V	D	L	
NTDB id 115 BSU 16940 NP 389576.2	I	V	E	V	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	I	A	E	V	Q	Q	Q	G	G	A	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	Q	K	L	G	V	N	I	E	E	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	E	A	L	V	R	S	G	A	V	D	I		
NTDB id 625 LCA RS02525 WP 011374196.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	V	A	L	H	A	V	A	E	V	Q	Q	G	G	T	A	Y	I	D	A	E	N	A	M	D	P	K	Y	A	T	A	L	G	V	N	I	D	D	L	L	S	Q	P	D	T	G	E	Q	G	L	E	I	A	D	A	L	V	S	S	G	A	V	D	I			
NTDB id 1313 DR RS12030 WP 010888966.1	I	T	E	I	Y	G	P	E	S	G	G	K	T	T	L	A	L	A	I	V	A	Q	A	Q	K	A	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	A	L	G	V	N	T	D	E	L	L	V	S	Q	P	D	N	G	E	Q	A	L	E	I	M	E	L	L	V	R	S	G	A	I	D	V
NTDB id 1245 Cj1673c YP 002345041.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	H	I	I	A	E	C	Q	K	A	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	K	Y	A	K	N	L	G	V	N	T	D	D	L	Y	V	S	Q	P	D	F	G	E	Q	A	L	E	I	V	E	T	I	A	R	S	G	A	V	D	L
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NTDB id 1211 C694 RS00795 WP 000963128.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	L	S	L	H	I	I	A	E	C	Q	K	N	G	G	V	C	A	F	I	D	A	E	H	A	L	D	V	H	Y	A	K	R	L	G	V	D	T	E	N	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	L	E	T	I	T	R	S	G	I	D	L	
NTDB id 1334 RAOC RS04870 WP 004918236.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	H	A	I	A	E	A	Q	K	V	G	G	T	A	A	F	I	D	A	E	H	A	F	D	M	H	Y	A	E	K	L	G	I	N	L	E	E	L	I	V	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	S	L	I	R	S	G	V	D	I	
NTDB id 1130 NGFG RS03960 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	I	D	M	
NTDB id 1124 NGFG RS03960 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	I	D	M	
NTDB id 1123 OK783 RS03845 WP 003688695.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	C	L	E	A	V	A	Q	C	Q	K	N	G	G	V	C	A	F	V	D	A	E	H	A	F	D	P	V	Y	A	R	K	L	G	V	K	V	E	E	L	Y	L	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	T	L	V	R	S	G	I	D	M	
NTDB id 149668 ACU14 RS08635 WP 014503651.1	V	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	Q	A	I	A	Q	C	Q	K	L	G	G	T	A	A	F	I	D	A	E	H	A	L	D	P	I	Y	A	A	K	L	G	V	N	V	D	D	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	S	V	D	I		
NTDB id 1427 RS RS02760 WP 011000510.1	V	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	Q	V	V	A	E	M	Q	K	L	G	G	T	C	A	F	I	D	A	E	H	A	L	D	V	T	Y	A	D	K	L	G	V	K	V	P	D	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	A	D	A	L	V	R	S	G	S	V	D	L	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	S	L	I	A	Q	A	Q	K	G	N	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	R	N	L	G	V	N	T	D	E	L	L	S	Q	P	D	N	G	E	Q	A	L	E	I	C	D	A	L	V	R	S	G	A	V	D	V	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	T	L	E	L	I	A	A	A	Q	R	E	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	K	L	G	V	N	I	D	E	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	V
NTDB id 1142 GTF74 RS11550 WP 000344154.1	I	V	E	I	F	G	P	E	S	S	G	K	T	T	L	T	L	E	L	I	A	A	A	Q	R	E	G	K	T	C	A	F	I	D	A	E	H	A	L	D	P	V	Y	A	K	K	L	G	V	N	I	D	E	L	L	V	S	Q	P	D	T	G	E	Q	A	L	E	I	C	D	A	L	A	R	S	G	A	V	D	V
NTDB id 1022 ACIAD RS06390 WP 004925639.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	M	T	L	Q	A	I	A	Q	C	Q	K	A	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	Q	Y	A	R	K	L	G	V	D	I	D	N	L	L	V	S	Q	P	D	H	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	G	A	I	D	L
NTDB id 1074 ABD1 RS10195 WP 000344167.1	I	T	E	I	Y	G	P	E	S	S	G	K	T	T	M	T	L	Q	A	I	A	Q	C	Q	K	S	G	G	T	C	A	F	I	D	A	E	H	A	L	D	P	Q	Y	A	R	K	L	G	V	D	I	D	N	L	L	V	S	Q	P	D	N	G	E	Q	A	L	E	I	A	D	M	L	V	R	S	G	A	I	D	L
NTDB id 1205 PSJM300 05545 AFN77183.1	I	V	E	I	Y	G	P	E	S	S	G	K	T	T	L	T	L	S	V	I	A	A	A	Q	R	M	G	S	T	C	A	F	V	D	A	E	H	A	L	D	P	Y	A	G	K	L	G	V	N	V	D	D	L	L	S	Q	P	D	T	G	E	Q	A	L	E	I	T	D	M	L	V									

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NTDB id 600 KW2 RS01765 WP 011675413.1	ASVRLDVRGSTKIEEGS.GDNKTQIGKI	TKIKVVKNKVAPPFKVALVDIMFGEGISSTGELINIAVEEGI	TKKSGAWFAY	311							
NTDB id 269 KZH43 RS08665 WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310							
NTDB id 228 SPD RS09265 WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310							
NTDB id 194 SPR RS08825 WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310							
NTDB id 159 SP RS09750 WP 001085462.1	ASVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310							
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310							
NTDB id 499 SM12261 RS08315 WP 0028228268.1	ASVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYGEGISKTGELLKIASDLDI	TKKAGAWYSY	310							
NTDB id 408 SMU RS09530 WP 002262392.1	SSVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEIITYGEGISRTGELVKIASDLGI	IQQKAGAWYSY	310							
NTDB id 453 Spy49 1753c ACI62003.1	ASVRLDVRGTTQIKGTG.DQKSS	IGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDLDI	IQQKAGAWFSY	310							
NTDB id 115 BSU 16940 NP 389576.2	SSVRLVRRRAEQLKQGN.....	DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEITD	LGTELDIVQKSGSWYSY	291							
NTDB id 625 LCA RS02525 WP 011374196.1	STVRLVRRRAETIKNGT.....	DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGISRTGELVDM	AVEKDIINKSGSWYSY	293							
NTDB id 1313 DR RS12030 WP 010888966.1	ASVRLDVRKIGQ....PTKVGND	AVANTVKIKTVKNKVAAPFKEVELALVYKGFQDLS	DLVGLAADMDITKKAGSFYSY	306							
NTDB id 1245 Cj1673c YP 002345041.1	ASVRLDVRKIVAT....L.KQNE	EPIGNRVKVVKNKVAPPFRQA	EFDVDFGEGLSREGELIDYGVKLDIVDKSGAWFSY	293							
NTDB id 1214 NCTC11637 00359 SQJ03206.1	ASVRIDIRRIAA....L.KQNE	QHIGNRAKAKVVKNKVAPPFREAEFD	IMFGEGISKEGEIIDYGVKLDIVDKSGAWLSY	295							
NTDB id 1211 C694 RS00795 WP 000963128.1	ASVRIDIRRIAS....L.KQNE	QHIGNRAKAKVVKNKVAPPFREAEFD	IMFGEGISKEGEIIDYGVKLDIVDKSGAWLSY	295							
NTDB id 1334 RAOC RS04870 WP 004918236.1	ASVRIDIRRSLSDTGKIKDKS	GEVIGNRTKVVKNKVAPPFKSAEFD	IMYGEGVSKVGEILDVATDLDI	IQQKSGSWFSY	306						
NTDB id 1130 NGFG RS03960 WP 003688695.1	SSVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPPFRQA	EFDILYGEGISWEGELIDIGVKNDI	INKSGAWYSY	293						
NTDB id 1124 NGFG RS03960 WP 003688695.1	SSVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPPFRQA	EFDILYGEGISWEGELIDIGVKNDI	INKSGAWYSY	293						
NTDB id 1123 OK783 RS03845 WP 003688695.1	SSVRLDIRRTGS....I.KKG	EEVLGNETRVKVIKKNVAPPFRQA	EFDILYGEGISWEGELIDIGVKNDI	INKSGAWYSY	293						
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NTDB id 1427 RS RS02760 WP 011000510.1	ASVRLDIRRIGS....I.KKG	DEVVGNETKVVKNKVAPPFREAI	FIDILYGAGVSRGEITD	LGVEAKVVEKSGAWYSY	301						
NTDB id 1389 A4U84 RS07560 WP 021112712.1	ASVRLDIRRCGV....V.KDG	DEIIGSETKVVKNKVAPPFRE	VQFDIMYGEGISRMNELLILAEANG	FIKKSGAWFSY	309						
NTDB id 1165 A1552VC RS01565 WP 000344154.1	ASVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFKE	ANTQIMYGGFNREGELIDLG	VKHKMVEKSGAWYSY	292						
NTDB id 1142 GTF74 RS11550 WP 000344154.1	ASVRLDIRRTGA....I.KEG	EEVVGNETRIKVVKNKIAAPFKE	ANTQIMYGGFNREGELIDLG	VKHKMVEKSGAWYSY	292						
NTDB id 1022 ACIAD RS06390 WP 004925639.1	ASVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFREAI	FQILYKGVNQLGELVDLAVQQ	NIVQKAGAWYSY	292						
NTDB id 1074 ABD1 RS10195 WP 000344167.1	ASVRLDIRRIGQ....V.KEG	DEIIGSETKVVKNKMAPPFREAI	FQILYKGVNQLGELVDLAVQQ	NIVQKAGAWYSY	292						
NTDB id 1205 PSJM300 05545 AFN77183.1	ASVRLDIRRTGA....V.KEG	DEVVGSETRVKVVKNKVAPPFR	QA	EFDILYKGGIYRNGEITD	LG	VQQGLVEKSGAWAY	292				
consensus	**!!**!*	*	**	*****!*****!*****!	*	*****!*****	*****	**	***	!	*****!

logo

NTDB id 600 KW2 RS01765 WP 011675413.1	....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEE	388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEE	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	ED..	383
NTDB id 453 Spy49 1753c ACI62003.1	ED..	378
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 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 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 149668 ACU14 RS08635 WP 014503651.1	....	344
NTDB id 1427 RS RS02760 WP 011000510.1	....	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	....	372
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