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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGERAEANQ.KVSVVSSGSLALDIALGAGGYPKGRI	75
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGEREKALNDALKLIEKDFGKGSIMRLGERAEQ.KVQVMSSGSLALDIALGSGGYPKGRI	74
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGERAEQ.KVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGERAEQ.KVQVMSSGSLALDIALGAGGYPKGRI	74
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGKTDTR.ISTVPSGSLALDTALGIGGYPKGRI	59
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEKVDTR.QVSTVSSGSLALDEALGVGGYPKGRI	61
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSIIEKAFGKGSIMKLGAEKSL.DVQVVSTGSLSLDLALGVGGIPKGRI	73
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKSLDKTFGKGTILRLGDKEVE.QIDSIGTGSVGLDLALGIGGYPKGRI	60
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATSLAIKQIDKVFSGKALVRLGDKQVE.KIDSISTGSLGLDLALGIGGYPKGRI	62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATSLAIKQIDKVFSGKALVRLGDKQVE.KIDAISTGSLGLDLALGIGGYPKGRI	62
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPNDKSKALAAVLEKLDKTYGKGTVMKLGDTVDHNI.EVIPSGLGLDLALGVGGYPKGRI	69
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIIEKSFSGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAIIEKSFSGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAIIEKSFSGKGAIMKMDGSQREENLEVISTGSLGLDLALGVGGLPRGRI	61
NTDB id 1111010 ACOH25 RS22860 WP 039393076.1	MEESK.....K..GSANLSAEGKALAAALAIIEKQFGKGSIMRLGDGEVEADI.QVVSTGSLGLDIALGVGGLPRGRV	71
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEGKALAAALAIIEKQFGKGSIMKMGDAEVEP.VQVVSTGSLGLDVALGVGGLPRGRV	69
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKSSKNNTV..VKQVEPEKQKQALEAALAIIEKQFGKGSIMKLGQTEQL.DIESVSTGSLGLDLALGIGGLPMGRI	77
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDNRAM.DVETISTGSLSLDIALGAGGLPMGRI	60
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDNRAM.DVETISTGSLSLDIALGAGGLPMGRI	60
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRALAAALGQIEKQFGKGAVMRMDHNRQ.AIPSIKSLGLDIALGIGGLPKGRI	60
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSALQAALSQIEKQFGKNTVMRLGDNNTVQ.AVEAVSTGSLTLDIALGIGGLPKGRI	60
NTDB id 1074 ABD1 RS10195 WP 000344167.1MDENKSALQAALSQIEKQFGKNTVMRLGDNNTVQ.AVEAVSTGSLTLDIALGIGGLPKGRI	60
consensus	*** ** * ** *! *! !***** * ** *! *! *! *! *! *! *! *! *	

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NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPSSGKTTVALHAVAQKQEGGIAAFIDAENALDPEYAKALGVNIDELLISQPDYGEQGLQIAEKLITSGAVDLV	155
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPSSGKTTVALHAVAQAQKQEGGIAAFIDAHEHALDPAYAAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPSSGKTTVALHAVAQAQKQEGGIAAFIDAHEHALDPAYAAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPSSGKTTVALHAVAQAQKQEGGIAAFIDAHEHALDPAYAAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPSSGKTTVALHAVAQAQKQEGGIAAFIDAHEHALDPAYAAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPSSGKTTVALHAVAQAQKQEGGIAAFIDAHEHALDPAYAAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIYGPSSGKTTVALHAVAQAQKQEGGIAAFIDAHEHALDPAYAAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 408 SMU RS09530 WP 002262392.1	VEIYGPSSGKTTVALHAVAQAQKDGGAIAFIDAHEHALDPAYAAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPSSGKTTVALHAVAQAQKQEGGIAAFIDAHEHALDPAYAAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 115 BSU 16940 NP 389576.2	IEVYGPSSGKTTVALHAI AEVQQGGQA AFIDAHEHALDPVYAQKLGVNIEELLISQPD TGEQALEIAEALVRS GAVDIV	139
NTDB id 625 LCA RS02525 WP 011374196.1	VEIYGPSSGKTTVALHAVAQKQGGTAAYIDAENAMDPKYATALGVNIDLLISQPD TGEQGLEIADALVSSGAVDIL	141
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPSSGKTTVALAIVQAQKAGGTCAFIDAHEHALDPVYARALGVNTDELLISQPDNGEQALEIMELLVRS GAVDIV	153
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPSSGKTTTLHLIIAECQKAGGVC AFIDAHEHALDVKYAKNLGVNTDLYVSQPDFGEQALEIVETIARSGAVDLI	140
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPSSGKTTLSLHIIAECQKNGGVC AFIDAHEHALDVHYAKRLGVDTENLLVSQPD TGEQALEILETITRSGGIDLIV	142
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPSSGKTTLSLHIIAECQKNGGVC AFIDAHEHALDVHYAKRLGVDTENLLVSQPD TGEQALEILETITRSGGIDLIV	142
NTDB id 1334 RAOC RS04870 WP 004918236.1	VEIYGPSSGKTTTLHLIIAEAQKVGGA AFIDAHEHAFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLIRSGGVDIV	149
NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPSSGKTTLCLEAVAQCKNGGVC AFVDAEHAFDPVYARKLGVKVEELYLSQPD TGEQALEICDTLVRSGGIDMV	141
NTDB id 1124 NGFG RS03960 WP 003688695.1	VEIFGPSSGKTTLCLEAVAQCKNGGVC AFVDAEHAFDPVYARKLGVKVEELYLSQPD TGEQALEICDTLVRSGGIDMV	141
NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPSSGKTTLCLEAVAQCKNGGVC AFVDAEHAFDPVYARKLGVKVEELYLSQPD TGEQALEICDTLVRSGGIDMV	141
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NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPSSGKTTTLQVVAEMQKLGTC AFIDAHEHALDVTYADKLGVKVPDLLISQPD TGEQALEIADALVRS GSVDLIT	149
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPSSGKTTTLSLIIAQAQKGNKTC AFIDAHEHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRS GAVDVI	157
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPSSGKTTTLLELIIAAAQREGKTC AFIDAHEHALDPVYAKKLGVNIDELLISQPD TGEQALEICDALARS GAVDVI	140
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VEIFGPSSGKTTTLLELIIAAAQREGKTC AFIDAHEHALDPVYAKKLGVNIDELLISQPD TGEQALEICDALARS GAVDVI	140
NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPSSGKTTTLTSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDLLVSQPD TGEQALEITDMLVRS NAVDVI	140
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VEIYGPSSGKTTMTLQAI AQCQKAGGTCAFIDAHEHALDPQYARKLGVDIDNLLVSQPDHGEQALEIADMLVRS GAVDILI	140
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IEIYGPSSGKTTMTLQAI AQCQKSGGTCAFIDAHEHALDPQYARKLGVDIDNLLVSQPDNGEQALEIADMLVRS GAVDILI	140
consensus	*!***!!!!*!!!!* ! **! !* ** !***!!!!*!! !!*****!***!!!!*!!!!*!!* * **!****!!**	

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NTDB id 600	KW2	RS01765	WP 011675413.1	V	I	D	S	V	A	A	L	V	P	K	A	E	I	D	G	E	I	G	D	S	S	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	A	G	H	I	N	K	T	K	T	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	234	
NTDB id 269	KZH43	RS08665	WP 001085462.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 228	SPD	RS09265	WP 001085462.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 194	SPR	RS08825	WP 001085462.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 159	SP	RS09750	WP 001085462.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 499	SM12261	RS08315	WP 078228268.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 527	SMSK321	RS11065	WP 001085454.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
NTDB id 408	SMU	RS09530	WP 002262392.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	I	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	233		
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NTDB id 115	BSU	16940	NP 389576.2	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	A	I	N	K	S	K	T	I	A	I	F	I	N	Q	L	R	E	K	V	G	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	218		
NTDB id 625	LCA	RS02525	WP 011374196.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	E	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	I	A	L	F	I	N	Q	L	R	E	K	V	G	M	.	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	S	T	220	
NTDB id 1313	DR	RS12030	WP 010888966.1	V	V	D	S	V	A	A	L	T	P	R	A	E	I	E	G	D	M	G	D	S	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	I	L	S	K	T	G	T	A	A	I	F	I	N	Q	L	R	E	K	I	G	V	M	.	Y	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	232
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NTDB id 1211	C694	RS00795	WP 000963128.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	L	I	F	I	N	Q	L	R	M	K	I	G	M	M	G	Y	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	S	222		
NTDB id 1214	NCTC11637	00359	SQJ03206.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	H	A	L	R	K	I	T	G	V	L	H	K	M	N	T	L	I	F	I	N	Q	L	R	M	K	I	G	M	M	G	Y	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	S	222		
NTDB id 1334	RAOC	RS04870	WP 004918236.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	M	G	D	S	K	M	G	L	H	A	R	L	M	S	Q	A	L	R	K	L	T	S	S	I	S	K	T	K	C	T	V	I	F	I	N	Q	L	R	D	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	S	228	
NTDB id 1130	NGFG	RS03960	WP 003688695.1	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	S	220		
NTDB id 1124	NGFG	RS03960	WP 003688695.1	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	S	220		
NTDB id 1123	OK783	RS03845	WP 003688695.1	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	S	220		
NTDB id 1111010	ACOH25	RS22860	WP 039393076.1	I	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	T	I	K	R	T	N	C	T	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	P	G	G	N	A	L	K	F	Y	S	230	
NTDB id 1427	RS	RS02760	WP 011000510.1	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	E	M	G	D	A	L	P	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	T	I	K	R	T	N	C	L	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	S	228
NTDB id 1389	A4U84	RS07560	WP 021112712.1	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	N	I	K	N	T	N	C	L	V	V	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	S	236
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	V	V	D	S																																																																													

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NTDB id 600 KW2 RS01765 WP 011675413.1	..	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EE	388
NTDB id 159 SP RS09750 WP 001085462.1	EE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EE	384
NTDB id 408 SMU RS09530 WP 002262392.1	..	383
NTDB id 453 Spy49 1753c ACI62003.1	..	378
NTDB id 115 BSU 16940 NP 389576.2	..	348
NTDB id 625 LCA RS02525 WP 011374196.1	..	355
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NTDB id 1111010 ACOH25 RS22860 WP 039393076.1	..	354
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 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