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NTDB id 1177 A1552VC RS01165 WP 000422572.1	LT	V	E	D	P	I	E	F	V	H	E	H	K	R	C	I	V	T	Q	R	E	V	G	L	D	T	S	E	V	E	A	L	K	N	S	L	R	Q	A	P	D	M	I	L	I	G	E	I	R	S	R	E	T	M	E	Y	A	M	T	F	A	E	T	G	H	L	C	M	A	T	L	H	A	N	N	A	N	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NTDB id 1203 PSJM300 01605 AFN76401.1	I	S	I	E	D	P	I	E	F	I	H	Q	H	Q	N	C	I	V	T	Q	R	E	V	G	I	D	T	S	F	E	V	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	I	G	E	V	R	T	R	E	T	M	D	H	A	V	A	F	A	E	T	G	H	L	C	L	A	T	L	H	A	N	N	A	N	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 1019 ACIAD RS04205 WP 004922051.1	I	T	I	E	D	P	I	E	F	I	H	E	H	A	G	C	I	T	T	Q	R	E	V	G	I	D	T	S	F	E	I	A	L	K	N	T	L	R	Q	A	P	D	V	I	L	I	G	E	I	R	S	R	E	V	M	D	Y	A	L	A	F	A	E	T	G	H	L	V	F	A	T	L	H	A	N	N	A	N	Q																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 1307 DR RS10055 WP 010888596.1	L	T	I	E	D	P	I	E	F	M	H	P	N	K	A	S	I	N	Q	R	E	V	G	S	D	T	S	F	D	D	A	L	R	A	A	L	R	Q	A	P	D	V	I	L	V	G	E	M	R	D	P	E	T	I	G	A	A	V	T	A	A	E	T	G	H	L	V	M	G	T	L	H	T	N	S	A	P	E																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NTDB id 1086 NMV RS00245 WP 002218487.1	L	T	I	E	D	P	I	E	F	V	H	Q	S	K	K	S	L	I	N	Q	R	E	L	H	Q	H	T	L	S	F	A	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	V	G	E	M	R	D	P	E	T	I	G	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	I	G	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1116 NGFG RS10615 WP 003690200.1	L	T	I	E	D	P	I	E	F	V	H	Q	S	K	K	S	L	I	N	Q	R	E	L	H	Q	H	T	L	S	F	A	N	A	L	S	S	A	L	R	E	D	P	D	V	I	L	V	G	E	M	R	D	P	E	T	I	G	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	I	G	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 407413 GPY10 RS07890 WP 158151510.1	L	T	I	E	D	P	I	E	F	V	H	S	N	N	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	S	F	K	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	V	G	E	L	R	D	Q	E	T	I	S	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	S	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1185 GTF74 RS11940 WP 000350195.1	L	T	I	E	D	P	I	E	F	V	H	S	N	N	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	S	F	K	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	V	G	E	L	R	D	Q	E	T	I	S	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	S	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1176 A1552VC RS01160 WP 000350195.1	L	T	I	E	D	P	I	E	F	V	H	S	N	N	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	S	F	K	N	A	L	R	S	A	L	R	E	D	P	D	V	I	L	V	G	E	L	R	D	Q	E	T	I	S	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	S	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1283 ACE17W RS02630 WP 010947729.1	L	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	V	N	Q	R	E	V	H	K	D	T	L	S	F	N	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	L	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	N	S	A	T	K																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 1259 GC085 RS10305 WP 010947729.1	L	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	V	N	Q	R	E	V	H	K	D	T	L	S	F	N	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	L	R	D	L	E	T	I	R	L	A	M	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	N	S	A	T	K																																																																																																																																																																																																																																																																																																																																																																																																																																																											
NTDB id 1202 PSJM300 01600 AFN76400.1	L	T	I	E	D	P	I	E	F	V	H	E	S	K	K	C	L	V	N	Q	R	E	V	H	R	D	T	L	G	F	S	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	I	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1194 PAKAF RS01995 WP 003084552.1	L	T	I	E	D	P	I	E	F	V	H	E	S	K	K	C	L	V	N	Q	R	E	V	H	R	D	T	L	G	F	S	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	I	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1020 ACIAD RS04210 WP 011182164.1	L	T	V	E	D	P	I	E	F	V	H	E	P	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	L	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	I	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1060 ABD1 RS04380 WP 000355489.1	L	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	I	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1040 HON27 RS13360 WP 000355489.1	L	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	I	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	L	T	V	E	D	P	I	E	F	V	H	Q	S	K	K	C	L	I	N	Q	R	E	V	H	R	D	T	H	G	F	N	E	A	L	R	S	A	L	R	E	D	P	D	I	I	L	V	G	E	M	R	D	L	E	T	I	R	L	A	L	T	A	A	E	T	G	H	L	V	F	G	T	L	H	T	I	S	A	A	K																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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NTDB id 1177 A1552VC RS01165 WP 000422572.1	ALERTIHIVPKEQREQFL	LDLSNLKGVIAQQL	LRDKNKGKRGHGVFEVL	INSPRIADLIRRGEL	HELKATMARSQEVGMQ	313
NTDB id 1203 PSJM300 01605 AFN76401.1	ALDRRIINFFPADRQ	NQVWMDLSLNLK	AVIAQQLVPTPDGK	GRRRAVIEVLINT	PLAADLIRKGEVHELKGLMKRSTDLGMQ	315
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TLERIIHFFDADR	HQQIFMDLSLNLK	AVISQQLIPTHDG	QSRRAAVEVLINT	PLLSDYIRQGEIYKIKELMARS	316
NTDB id 1307 DR RS10055 WP 010888596.1	SIDRIVDVFP	EEQEQEIRVQL	ANNLVAVMTQQLLP	RADGQGRVLAYEIL	LANPAVRALIREGKTFQITSVMQTGA	319
NTDB id 1086 NMV RS00245 WP 002218487.1	TVDRIVDVFPAGE	KEMVRSMLSESL	TAVISQNLKTHDGN	GRVASHEILIANPAVRN	LIRENKITQINSVLQTGQASGMQ	315
NTDB id 1116 NGFG RS10615 WP 003690200.1	TVDRIVDVFPAGE	KEMVRSMLSESL	TAVISQNLKTHDGN	GRVASHEILIANPAVRN	LIRENKITQINSVLQTGQASGMQ	315
NTDB id 407413 GPY10 RS07890 WP 158151510.1	TIDRIIDVFP	GSDDKMVRSMLSESL	RAVIAQKLLKR	.LGGGRVACHEIM	LATPAIRNLIREDKV	314
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TIDRIIDVFP	GSDDKMVRSMLSESL	RAVIAQKLLKR	.VGGGRVACHEIM	LATPAIRNLIREDKV	314
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TIDRIIDVFP	GSDDKMVRSMLSESL	RAVIAQKLLKR	.VGGGRVACHEIM	LATPAIRNLIREDKV	314
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TINRIIDVFP	AAEKSMMVRSMLSESL	QAVVAQSLLKK	.NKGGRVAALEIMMCT	GAIRNLIREDKIAQMYSS	314
NTDB id 1259 GC085 RS10305 WP 010947729.1	TINRIIDVFP	AAEKSMMVRSMLSESL	QAVVAQSLLKK	.NKGGRVAALEIMMCT	GAIRNLIREDKIAQMYSS	314
NTDB id 1202 PSJM300 01600 AFN76400.1	TIDRVVDVFP	AAEKSMMVRSMLSESL	QAVISQTLKK	.VGGGRVAAHEIMIG	TPAIRNLIREDKV	314
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TIDRVVDVFP	AAEKSMMVRSMLSESL	QAVISQTLKK	.VGGGRVAAHEIMIG	TPAIRNLIREDKV	314
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TIDRIIDVFP	AAEKSMMVRSMLSESL	QAVISQTLKK	.EGGGRVAAHEIMIG	IPAIRNLIREDKV	314
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TIDRVVDVFP	AAEKSMMVRSMLSESL	QAVISQTLKK	.NKGGRVAAHEIMIG	IPAIRNLIREDKV	314
NTDB id 1040 HON27 RS13360 WP 000355489.1	TIDRVVDVFP	AAEKSMMVRSMLSESL	QAVISQTLKK	.NKGGRVAAHEIMIG	IPAIRNLIREDKV	314
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TIDRVVDVFP	AAEKSMMVRSMLSESL	QAVISQTLKK	.NKGGRVAAHEIMIG	IPAIRNLIREDKV	314
consensus	***!*****	*****!!!!**	*****!	!!!!*	*****!*****!*****!*	*****!*****!*

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NTDB id 1177 A1552VC RS01165 WP 000422572.1	TFDQALYQLVVDKISEQDALHSADSANDLRLMLKTKRGDDY...GSGSLQNVKI.....DME.....	368
NTDB id 1203 PSJM300 01605 AFN76401.1	TFDQALYNLYVQGEITYEDALLHADSSNDLRLMIKLGSETDGEHLTSVS.QGLTL.....EMSDDDPGRSFR.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	TFDQALFDLYDHQHSYADALKHADSPNNLRLQIKLSEEANKPLDNRRERMSEMER.....KMTFDGQRRNLK.....	383
NTDB id 1307 DR RS10055 WP 010888596.1	TMDAYLAGLFRHLITYDKGLERAIDPKEFARLANDASAGL....GGASMTPAAPPVPAYNSASSSSTGRGGDFGRGAAA	395
NTDB id 1086 NMV RS00245 WP 002218487.1	TMDQSLQSLVRQGLIAPEVARRRAQNSESMSF.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	TMDQSLQSLVRQGLIAPEAAARRRAQNSESMSF.....	347
NTDB id 407413 GPY10 RS07890 WP 158151510.1	TMEQHAKQLIAQGLVEPAEVQKKIELEMSAF.....	345
NTDB id 1185 GTF74 RS11940 WP 000350195.1	TMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	TMEQNAKQLIARGVVDQEVQSKIELDLKAF.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALNKSLF.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	TLDQHLTELVNKNIISKHTAHEAALNKSLF.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	TLDSCCLKGLLAKGLISRDSAKEKAKQPENF.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	TLDMCLKGLVAKGLISRENAREKAKIPENF.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	TLDQSLKQLLAKGIINLPTARAVAKSPESF.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQPESFL.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	TLDQSLKGLVARGVISPQTARTAAKQPESFL.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	TLDQSLKGLVSRGVISPQTARTAAKQPESFL.....	345
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NTDB id 1177 A1552VC RS01165 WP 000422572.1	PATPAAPAACRSEPCRCACCFGR	368
NTDB id 1203 PSJM300 01605 AFN76401.1	.....	381
NTDB id 1019 ACIAD RS04205 WP 004922051.1	.....	383
NTDB id 1307 DR RS10055 WP 010888596.1	PATPAAPAAGRSEPGRAGGFGR	418
NTDB id 1086 NMV RS00245 WP 002218487.1	.....	347
NTDB id 1116 NGFG RS10615 WP 003690200.1	.....	347
NTDB id 407413 GPY10 RS07890 WP 158151510.1	.....	345
NTDB id 1185 GTF74 RS11940 WP 000350195.1	.....	345
NTDB id 1176 A1552VC RS01160 WP 000350195.1	.....	345
NTDB id 1283 ACE17W RS02630 WP 010947729.1	.....	344
NTDB id 1259 GC085 RS10305 WP 010947729.1	.....	344
NTDB id 1202 PSJM300 01600 AFN76400.1	.....	344
NTDB id 1194 PAKAF RS01995 WP 003084552.1	.....	344
NTDB id 1020 ACIAD RS04210 WP 011182164.1	.....	344
NTDB id 1060 ABD1 RS04380 WP 000355489.1	.....	345
NTDB id 1040 HON27 RS13360 WP 000355489.1	.....	345
NTDB id 1081 FDQ49 RS05335 WP 006581387.1	.....	345
consensus		

- ☐ non conserved
- ☒ similar
- ☒ ≥ 50% conserved