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NTDB id 600 KW2 RS01765 WP 011675413.1	VEIYGPESGKTTVALHVAQAKKEGGIAAFIDAENALDPEYAKALGVNIDELLISQPDYGEQGLQIAEKLITSGAVDLV	155
NTDB id 1169982 ACLV7H RS08680 WP 411866943.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	155
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 228 SPD RS09265 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 194 SPR RS08825 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 159 SP RS09750 WP 001085462.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 408 SMU RS09530 WP 002262392.1	VEIYGPESGKTTVALHVAQAQKDGGAFAFIDAHALDPAYAAALGVNIDELLISQPDSGEQGLEIAGKLIDSGAVDLV	154
NTDB id 453 Spy49 1753c ACI62003.1	IEIYGPESGKTTVALHVAQAQKEGGIAAFIDAHALDPAYAAALGVNIDELLAQPDSEGEQGLEIAGKLIDSGAVDLV	154
NTDB id 625 LCA RS02525 WP 011374196.1	VEIYGPESGKTTVALHVAEVAQKGGTAAYIDAENAMDPKYATALGVNIDLLLSQPDTGEQGLEIADALVSSGAVDIL	141
NTDB id 115 BSU 16940 NP 389576.2	IEVYGPESGKTTVALHVAEVAQKGGTAAYIDAENAMDPKYATALGVNIDLLLSQPDTGEQGLEIADALVSSGAVDIL	139
NTDB id 1313 DR RS12030 WP 010888966.1	TEIYGPESGKTTVALHVAQAQKAGGTCFAFIDAHALDPVYARALGVNTDELLVSQPDNGEQALEIMELLVRSGATDVV	153
NTDB id 1245 Cj1673c YP 002345041.1	IEIYGPESGKTTTLHIIAECQKAGGVCFAFIDAHALDVKYAKNLGVNTDLYVSQPDFGEQALEIVETIARSGAVDLI	140
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IEIYGPESGKTTLSLHIIAECQKNGGVCFAFIDAHALDVHYAKRGLVDTENLLVSQPDTEGEQALEILETITRSGGIDL	142
NTDB id 1211 C694 RS00795 WP 000963128.1	IEIYGPESGKTTLSLHIIAECQKNGGVCFAFIDAHALDVHYAKRGLVDTENLLVSQPDTEGEQALEILETITRSGGIDL	142
NTDB id 1334 RAOC RS04870 WP 004918236.1	VEIYGPESGKTTTLHIIAQAQKVGGAFAFIDAHAFFDMHYAEKLGINLEELIVSQPDNGEQALEIADSLTRSGGVDIV	149
NTDB id 1389 A4U84 RS07560 WP 021112712.1	VEIYGPESGKTTTLTSLIIAQAQKGNKTCFAFIDAHALDPVYARNLGVNTDELLISQPDNGEQALEICDALVRSGAVDVI	157
NTDB id 1130 NGFG RS03960 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCKNGGVCFAFVDAEHAFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 1124 NGFG RS03960 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCKNGGVCFAFVDAEHAFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 1123 OK783 RS03845 WP 003688695.1	VEIFGPESGKTTLCLEAVAQCKNGGVCFAFVDAEHAFDPVYARKLGKVEELYLSQPDTEGEQALEICDTLVRSGGIDMV	141
NTDB id 1427 RS RS02760 WP 011000510.1	VEIYGPESGKTTTLQVVAEMQKLGSTCAFIDAHALDVTYADKLGKVPDLLISQPDTEGEQALEIADALVRSVSDLI	149
NTDB id 1165 A1552VC RS01565 WP 000344154.1	VEIFGPESGKTTLTLELIAAAQREGKTCFAFIDAHALDPVYAKKLGVNIDELLVSQPDTEGEQALEICDALARSGAVDVI	140
NTDB id 1142 GTF74 RS11550 WP 000344154.1	VEIFGPESGKTTLTLELIAAAQREGKTCFAFIDAHALDPVYAKKLGVNIDELLVSQPDTEGEQALEICDALARSGAVDVI	140
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IEIYGPESGKTTMTLQAIQAQKSGGTCFAFIDAHALDPQYARKLGVNIDNLLVSQPDNGEQALEIADMLVRSGATDLI	140
NTDB id 1022 ACIAD RS06390 WP 004925639.1	VEIYGPESGKTTMTLQAIQAQKAGGTCFAFIDAHALDPQYARKLGVNIDNLLVSQPDHGEQALEIADMLVRSGATDLI	140
NTDB id 1205 PSJM300 05545 AFN77183.1	VEIYGPESGKTTTLSVIAAAQRMGSTCAFVDAEHALDPDYAGKLGVNVDLLVSQPDTEGEQALEITDMLVRSNAVDVI	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	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 1169982 ACLV7H RS08680 WP 411866943.1	V	I	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	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	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	I	G	D	S	H	V	G	L	Q	A	R	M	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	I	G	D	S	H	V	G	L	Q	A	R	M	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	I	G	D	S	H	V	G	L	Q	A	R	M	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	I	G	D	S	H	V	G	L	Q	A	R	M	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	I	G	D	S	H	V	G	L	Q	A	R	M	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	I	G	D	S	H	V	G	L	Q	A	R	M	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	I	G	D	S	H	V	G	L	Q	A	R	M	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		
NTDB id 453 Spy49 1753c ACI62003.1	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	I	G	D	S	H	V	G	L	Q	A	R	M	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	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	S	233	
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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	S	T	220
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	I	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	S	218	
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	V	R	E	K	I	G	V	M	.	Y	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	232
NTDB id 1245 Cj1673c YP 002345041.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	Q	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	I	V	H	K	M	N	T	V	I	F	I	N	Q	I	R	M	K	I	G	A	M	G	Y	G	T	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	220	
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	T	L	I	F	I	N	Q	I	R	M	K	I	G	M	G	Y	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	222		
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	T	L	I	F	I	N	Q	I	R	M	K	I	G	M	G	Y	G	S	P	E	T	T	T	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	T	V	I	F	I	N	Q	L	R	D	K	I	G	V	M	.	F	G	S	P	E	T	T	T	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	I	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	236
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	T	N	T	L	V	V	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	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	T	N	T	L	V	V	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	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	T	N	T	L	V	V	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	S	220		
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	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	228
NTDB id 1165 A1552VC RS01565 WP 000344154.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	M	L	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	219
NTDB id 1142 GTF74 RS11550 WP 000344154.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	M	L	S	Q	A	M	R	K	L	T	G	N	L	K	Q	S	N	C	M	C	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	219
NTDB id 1074 ABD1 RS10195 WP 000344167.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	219
NTDB id 1022 ACIAD RS06390 WP 004925639.1	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	I	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	219
NTDB id 1205 PSJM300 05545 AFN77183.1	I	V	D	S	V	A	A	L	V	P	K	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	I	T	G	N	I	K	N	A	N	C	L	V	I	F	I	N	Q	I	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	T	G	G	N	A	L	K	F	Y	A	S	219
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NTDB id 600 KW2 RS01765 WP 011675413.1	EKIGQGA	EKAKNYL	KEHQDV	FDEIDHKV	RAAHG	LDDSEVA	ETEETT	ASKTKAKAK	KKEEKAV	ETEEIELE	ED	.....	387
NTDB id 1169982 ACLV7H RS08680 WP 411866943.1	EKIGQGS	ENAKKYLA	HPHPEIF	DAIDHQV	RVVQY	GLIEDEE	GSTPTS	V.....	AED..	LAPNQEV	TLDLGD	GLEIEI	381
NTDB id 269 KZH43 RS08665 WP 001085462.1	EKIGQGS	ENAKKYLA	HPHPEIF	FDEIDKQ	VRSKF	GLIDGEE	VSEQD	TENKKDEP	...KKE..	EAVNEEV	PLDLG	DELEIEI	386
NTDB id 228 SPD RS09265 WP 001085462.1	EKIGQGS	ENAKKYLA	HPHPEIF	FDEIDKQ	VRSKF	GLIDGEE	VSEQD	TENKKDEP	...KKE..	EAVNEEV	PLDLG	DELEIEI	386
NTDB id 194 SPR RS08825 WP 001085462.1	EKIGQGS	ENAKKYLA	HPHPEIF	FDEIDKQ	VRSKF	GLIDGEE	VSEQD	TENKKDEP	...KKE..	EAVNEEV	PLDLG	DELEIEI	386
NTDB id 159 SP RS09750 WP 001085462.1	EKIGQGS	ENAKKYLA	HPHPEIF	FDEIDKQ	VRSKF	GLIDGEE	VSEQD	TENKKDEP	...KKE..	EAVNEEV	PLDLG	DELEIEI	386
NTDB id 499 SM12261 RS08315 WP 078228268.1	EKIGQGS	ENAKKYLA	DNPEIF	FDEIDHQ	RVVQF	GLIDGEE	IAES...	KKDEA...	AQV..	DSVNEEV	TLDLGD	DELEIEI	382
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EKIGQGS	ENAKKYLA	DNPEVFA	EIDHQV	RVVQF	GLIDGEE	AAES...	KKDEV...	AQV..	DSVNEEV	TLDLGD	DELEIEI	382
NTDB id 408 SMU RS09530 WP 002262392.1	EKIGQGS	ENAKKFLA	DNPEIFD	DIHQV	RVVQY	GLIEEDN	TEEKQ	SSEKE...	TD..	EKADKNL	VLELDD	TIELED	383
NTDB id 453 Spy49 1753c ACI62003.1	EKIGQGS	ENAKRYLA	DHPQLF	DEIDR	KVRVKF	GLLEESE	EEESAM	AVASEE	.....	TDDLALD	LDNGIE	IED	378
NTDB id 625 LCA RS02525 WP 011374196.1	ERIGQG	RENAKNYL	ADHEDV	EDVRL	KVRAAY	GISDV	PEEDLP	TTEDE	.QIN.....	ILPDD	STEE..		355
NTDB id 115 BSU 16940 NP 389576.2	ERLGGQ	RENAKQFL	KENKDI	MLMIQ	EQIREH	YGLDNN	GVVQQ	QAETQ	EELE.....	FE.E.....			348
NTDB id 1313 DR RS12030 WP 010888966.1	ERIGQG	KEKTIA	YIAERP	EMEQE	IRDRV	MAAIR	AGNAGE	APALAP	APAAPEAA	.EA.....			363
NTDB id 1245 Cj1673c YP 002345041.1	KKLGGQ	RENSKAF	LKENPEI	ADEIT	KAIQNS	MGIEG	M.....	SGSEDD	.G.EE.....				343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KKLGGQ	RENAKAL	LKEDKA	LADAIT	LKIKES	IGSNEE	I.....	MPLPDE	P..L.EEME	.....			347
NTDB id 1211 C694 RS00795 WP 000963128.1	KKLGGQ	RENAKAL	LKEDKA	LADAIT	LKIKES	IGSNEE	I.....	MPLPDE	P..L.EEME	.....			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	TKLGGQ	RDTVKEL	IKDNPE	LAELEA	KIREKL	QAK.....							343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	TKIGQG	KNNAVK	WLKENPE	IADKLE	QEIRNT	LASNPN	S.....	VLKATA	SNSN..	DESDVEE	FSEEL	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRV	WLKENPE	ISDEI	DAKIRA	LNQVEM	HI.....	TEGTQD	ETD.....	GERPEE	.....		348
NTDB id 1124 NGFG RS03960 WP 003688695.1	AKIGQG	KDNVRV	WLKENPE	ISDEI	DAKIRA	LNQVEM	HI.....	TEGTQD	ETD.....	GERPEE	.....		348
NTDB id 1123 OK783 RS03845 WP 003688695.1	AKIGQG	KDNVRV	WLKENPE	ISDEI	DAKIRA	LNQVEM	HI.....	TEGTQD	ETD.....	GERPEE	.....		348
NTDB id 1427 RS RS02760 WP 011000510.1	ERIGQG	RDNCR	EFLRENA	EELARE	IENKVR	REHLG	VTPMG...	AV.TL	AEEVE..	ED.....			352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	DKIGQG	KANACK	YLKENPE	IAKTL	DKKLRE	MLLNPN	EM.....	QLIAET	SSAA..	DDVEFG	AVPEEF	.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	DKIGQG	KANACK	YLKENPE	IAKTL	DKKLRE	MLLNPN	EM.....	QLIAET	SSAA..	DDVEFG	AVPEEF	.....	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	NKIGQG	KNNVIR	YFEENN	QIAEEI	ERNIRE	QLLTGT	N.....	GAVQ.I	EDE..	EEDP..	LLLES	.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	NKIGQG	KNNVIR	YLEENP	QISTE	IEAVI	REQLLT	KASD...	QTAA.	HDETE..	EEDP..	LLLES	.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	SKIGQG	KANAACK	YLEENPE	IGQIE	EQQIR	AKLLV	TSAN...	TKATP	VADL..	ADAD..	I.....		347

consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	..	387
NTDB id 1169982 ACLV7H RS08680 WP 411866943.1	EE	383
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 625 LCA RS02525 WP 011374196.1	..	355
NTDB id 115 BSU 16940 NP 389576.2	..	348
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 1389 A4U84 RS07560 WP 021112712.1	..	372
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 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