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NTDB id 1313 DR RS12030 WP 010888966.1	LDVRRKIGQ...PTKVGNDVA	ANTVKT	IKTVKNKVA	APPFKE	VELAL	VYGKGF	DLVGL	AADMDI	IKKAGS	FSYSGDE	310				
NTDB id 165277 AB663 RS10790 WP 067198813.1	LDIRRIETLKDGA...EA	VGNRT	RVKVVKNK	MAPPFK	QAEFD	DILYGI	GISREG	SLIDFG	VEHGI	VKKSGS	WYTYDGDQ	298			
NTDB id 600 KW2 RS01765 WP 011675413.1	LDVRGSTKIEEGS.GDNKTQ	IGKITK	IKVVKNK	VAPPFK	VALVD	IMFGEG	ISSTGEL	LNTAVE	EGI	IKKSGA	WFAYNDEK	315			
NTDB id 269 KZH43 RS08665 WP 001085462.1	LDVRGNTQIKGTG.DQK	ETNVG	KETKIK	VVKNKV	VAPPFK	EAVVE	IMYGEG	ISKTGEL	LKIASD	LDI	IKKAGAW	YSYKDEK	314		
NTDB id 228 SPD RS09265 WP 001085462.1	LDVRGNTQIKGTG.DQK	ETNVG	KETKIK	VVKNKV	VAPPFK	EAVVE	IMYGEG	ISKTGEL	LKIASD	LDI	IKKAGAW	YSYKDEK	314		
NTDB id 194 SPR RS08825 WP 001085462.1	LDVRGNTQIKGTG.DQK	ETNVG	KETKIK	VVKNKV	VAPPFK	EAVVE	IMYGEG	ISKTGEL	LKIASD	LDI	IKKAGAW	YSYKDEK	314		
NTDB id 159 SP RS09750 WP 001085462.1	LDVRGNTQIKGTG.DQK	ETNVG	KETKIK	VVKNKV	VAPPFK	EAVVE	IMYGEG	ISKTGEL	LKIASD	LDI	IKKAGAW	YSYKDEK	314		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	LDVRGNTQIKGTG.DQK	DTNVG	KETKIK	VVKNKV	VAPPFK	EAFVE	IMYGEG	ISKTGEL	LKIASD	LDI	IKKAGAW	YSYKDEK	314		
NTDB id 499 SM12261 RS08315 WP 078228268.1	LDVRGNTQIKGTG.DQK	DTNVG	KETKIK	VVKNKV	VAPPFK	EAFVE	IMYGEG	ISKTGEL	LKIASD	LDI	IKKAGAW	YSYKDEK	314		
NTDB id 408 SMU RS09530 WP 002262392.1	LDVRGNTQIKGTG.EQK	DSNIG	KETKIK	VVKNKV	VAPPFK	EAFVE	IYEGEG	ISRTGEL	VKIASD	LGI	IKKAGAW	YSYNGEK	314		
NTDB id 453 Spy49 1753c ACI62003.1	LDVRGTTQIKGTG.DQK	DSSIG	KETKIK	VVKNKV	VAPPFK	VAEVE	IMYGEG	ISRTGEL	VKIASD	LDI	IKKAGAW	FSYNGEK	314		
NTDB id 115 BSU 16940 NP 389576.2	LEVRRAEQLKQGN...D	VMGNK	TKIK	VVKNKV	VAPPFR	TAEVD	IMYGEG	ISKEGET	ITDLG	TELDI	VQKSGS	WYSYEEER	295		
NTDB id 625 LCA RS02525 WP 011374196.1	LEVRRAEIKNGT...D	MIGNR	ARIK	VVKNKV	VAPPFK	VAEVD	DIMYGG	ISRTGEL	VDMA	VEKDI	INKSGS	WYSYGSER	297		
NTDB id 1245 Cj1673c YP 002345041.1	LDVRKVAT...L.KQ	NEPIG	NRVVK	VVKNKV	VAPPFR	QAEFD	VMFGEL	SRREGEL	IDYG	VKLDI	VDKSGA	WFSYKDKK	297		
NTDB id 1211 C694 RS00795 WP 000963128.1	IDIRRIAS...L.KQ	NEPIG	NRVVK	VVKNKV	VAPPFR	QAEFD	VMFGEL	SRREGEL	IDYG	VKLDI	VDKSGA	WLSYQDKK	299		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IDIRRIAA...L.KQ	NEPIG	NRVVK	VVKNKV	VAPPFR	QAEFD	VMFGEL	SRREGEL	IDYG	VKLDI	VDKSGA	WLSYQDKK	299		
NTDB id 1334 RAOC RS04870 WP 004918236.1	IDIRRSLSDTGKIKDKS	GEVIG	NRTKV	VVKNKV	VAPPFK	SAEFD	IMYGEG	VSKVGE	ILDVA	TDLDI	IQKSGS	WFSYQDTK	310		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	LDIRRCGV...V.KD	GDEIG	SETKV	VVKNKV	VAPPFR	REVQF	IMYGEG	ISRMNELL	LILAE	ANGFI	IKKSGA	WFSYDGTK	313		
NTDB id 1130 NGFG RS03960 WP 003688695.1	LDIRRTGS...I.KK	GEEVL	GNETRV	KVVK	VAPPFR	QAEFD	DILYGE	ISWEGEL	IDIG	VKNDI	INKSGA	WYSYNGAK	297		
NTDB id 1124 NGFG RS03960 WP 003688695.1	LDIRRTGS...I.KK	GEEVL	GNETRV	KVVK	VAPPFR	QAEFD	DILYGE	ISWEGEL	IDIG	VKNDI	INKSGA	WYSYNGAK	297		
NTDB id 1123 OK783 RS03845 WP 003688695.1	LDIRRTGS...I.KK	GEEVL	GNETRV	KVVK	VAPPFR	QAEFD	DILYGE	ISWEGEL	IDIG	VKNDI	INKSGA	WYSYNGAK	297		
NTDB id 1427 RS RS02760 WP 011000510.1	LDIRRIGS...I.KK	GDEV	VGNETK	VVKNKV	VAPPFR	EAFID	DILYGA	VSREGE	IDLG	VEAKV	EKSGA	WYSYNGER	305		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	LDIRRTGA...I.KE	GEEV	VGNETRI	KVVK	IAAPFK	EANTQ	IMYGG	GFNREG	ELIDL	GVKHK	MEKSGA	WYSYNGDK	296		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	LDIRRTGA...I.KE	GEEV	VGNETRI	KVVK	IAAPFK	EANTQ	IMYGG	GFNREG	ELIDL	GVKHK	MEKSGA	WYSYNGDK	296		
NTDB id 1205 PSJM300 05545 AFN77183.1	LDIRRTGA...V.KE	GDEV	VGNETRV	KVVK	VAPPFR	QAEFQ	IYLGK	GIYR	NGE	IDLGV	QGLV	EKSGAW	AYKGSK	296	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	LDIRRIGQ...V.KE	GDEIG	SETKV	VVKNKV	MAPPFR	EAFIF	QILYGK	GVNQL	GELVD	LAVQQ	NIVQ	KAGAW	YSYQGNK	296	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	LDIRRIGQ...V.KE	GDEIV	GS	ETKV	VVKNKV	MAPPFK	EAFIF	QILYGK	GTNQL	GELVD	LAVQQ	DIVQ	KAGAW	YSYQGNK	296

consensus \*\*\*!\* \* \*\* \*\*\*\*\*!!!!!!\* \* \*\*\*\*\*!\*\*\*\* \*\*\*\*\* \*\* \*\*\* ! !\*\*\*\*\*! \*

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 NTDB id 228 SPD RS09265 WP 001085462.1  
 NTDB id 194 SPR RS08825 WP 001085462.1  
 NTDB id 159 SP RS09750 WP 001085462.1  
 NTDB id 527 SMSK321 RS11065 WP 001085454.1  
 NTDB id 499 SM12261 RS08315 WP 078228268.1  
 NTDB id 408 SMU RS09530 WP 002262392.1  
 NTDB id 453 Spy49 1753c ACI62003.1  
 NTDB id 115 BSU 16940 NP 389576.2  
 NTDB id 625 LCA RS02525 WP 011374196.1  
 NTDB id 1245 Cj1673c YP 002345041.1  
 NTDB id 1211 C694 RS00795 WP 000963128.1  
 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 1205 PSJM300 05545 AFN77183.1  
 NTDB id 1022 ACIAD RS06390 WP 004925639.1  
 NTDB id 1074 ABD1 RS10195 WP 000344167.1



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consensus

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- X non conserved
- X similar
- X ≥ 50% conserved