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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKK....TNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	ALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	ALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	ALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKP....KKLEEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	ALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKP....KKLDEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	ALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKP....KKLDEISKKFGA	EREKALNDALKLI	FKGGSIMRLGER	.AEQKVQVM	SSGSLALDI	ALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKL....KKNEEITKKFG	DERKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVM	SSGSLALDI	ALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRI....KKTEEITKKFG	DERKALDDALKN	IEKDFGKGAVMRLGER	.AEQKVQVM	SSGSLALDI	ALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALK	QIEKQFGKGSIMKLG	EK.TDTRI	ISTVPSGSLALDI	TALGIGGYPRGR	58	
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALK	KIEKNFGKGSIMRM	GK.VDTQV	STVSSGSLALDE	ALGVGGYPRGR	60	
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAP	TDAKERSKATETAMS	QIEKAFGKGSIMKLG	AESKLDVQV	VSTGSLSLDL	ALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	.....MDNKRKSLDAALKS	LDKTFGKGTILRL	GDK.EVEQ	IDSIGTGSVGLDL	ALGIGGVPKGR	59	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKAI	ISLAIKQIDKVF	FGKALVRLGDK	.QVEKIDA	ISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKAI	ISLAIKQIDKVF	FGKALVRLGDK	.QVEKIDS	ISTGSLGLDL	ALGIGGVPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAKT..ETTSPN	DDKKKALAAVLEK	LDKTYGKGTVMKLG	DGTVDHNI	IEVIPSGSLGLDL	ALGVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQ	VEPEQKKQALEAALA	QIEKQFGKGSIMKLG	QT.EQLDI	ESVSTGSLGLDL	ALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALA	QIEKSFGKGAIMKMD	GSGQEEENLEV	ISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALA	QIEKSFGKGAIMKMD	GSGQEEENLEV	ISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALA	QIEKSFGKGAIMKMD	GSGQEEENLEV	ISTGSLGLDL	ALGVGGLPRGR	60	
NTDB id 1427 RS RS02760 WP 011000510.1	.MED.....GK..KAASMS	AEKQKALAAALA	QIEKQFGKGSIMKMD	A.EVEPVQV	VSTGSLGLDVALGVGGLPRGR	68	
NTDB id 285416 DBP88 RS20000 WP 022649140.1	.....MAIDENKQKALAAAL	GQIEKQFGKGSIMRL	GED.RSM	VETISTGSLSLDI	ALGAGGLPMGR	61	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAAL	GQIEKQFGKGSIMRL	GDN.RAM	VETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAAL	GQIEKQFGKGSIMRL	GDN.RAM	VETISTGSLSLDI	ALGAGGLPMGR	59	
NTDB id 1205 PSJM300 05545 AFN77183.1	.....MDENKRRALAAAL	GQIEKQFGKGAVMR	GDH.DRQA	IPSISTGSLGLDI	ALGIGGLPKGR	59	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALS	QIEKQFGKNTVMRL	GDN.TVQ	AVEAVSTGSLTLDI	ALGIGGLPKGR	59	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALS	QIEKQFGKNTVMRL	GDN.TVQ	AVEAVSTGSLTLDI	ALGIGGLPKGR	59	
consensus		*** **	*** **	*** **	*** **	*** **	*** **



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NTDB id 600 KW2 RS01765 WP 011675413.1	VV	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	S	S	V	G	L	Q	A	R	M	S	Q	A	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	233						
NTDB id 269 KZH43 RS08665 WP 001085462.1	V	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	S	Q	A	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	232			
NTDB id 228 SPD RS09265 WP 001085462.1	V	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	S	Q	A	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	232			
NTDB id 194 SPR RS08825 WP 001085462.1	V	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	S	Q	A	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	232			
NTDB id 159 SP RS09750 WP 001085462.1	V	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	S	Q	A	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	232			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	V	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	S	Q	A	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	232			
NTDB id 499 SM12261 RS08315 WP 078228268.1	V	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	S	Q	A	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	232			
NTDB id 453 Spy49 1753c ACI62003.1	V	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	S	Q	A	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	232			
NTDB id 408 SMU RS09530 WP 002262392.1	V	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	S	Q	A	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	232			
NTDB id 115 BSU 16940 NP 389576.2	V	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	217
NTDB id 625 LCA RS02525 WP 011374196.1	L	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	219
NTDB id 1313 DR RS12030 WP 010888966.1	V	V	V	D	S	V	A	A	L	T	P	R	A	E	I	E	G	D	M	G	D	S	L	P	Q	L	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	231	
NTDB id 1245 Cj1673c YP 002345041.1	I	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	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	219
NTDB id 1214 NCTC11637 00359 SQJ03206.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	D	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	221	
NTDB id 1211 C694 RS00795 WP 000963128.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	D	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	221	
NTDB id 1334 RAOC RS04870 WP 004918236.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	D	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	T	G	G	N	A	L	K	F	Y	A	227
NTDB id 1389 A4U84 RS07560 WP 021112712.1	I	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	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	V	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	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	219	
NTDB id 1124 NGFG RS03960 WP 003688695.1	V	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	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	219	
NTDB id 1123 OK783 RS03845 WP 003688695.1	V	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	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	219	
NTDB id 1427 RS RS02760 WP 011000510.1	I	V	I	D	S	V	A	A	L	V	P	K	A	E	I	E	G	E	M	G	D	A	L	P	Q	L	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	227	
NTDB id 285416 DBP88 RS20000 WP 022649140.1	I	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	I	G	D	S	H	M	G	L	A	A	R	M	S	Q	A	M	R	K	L	A	G	N	L	K	Q	S	N	T	L	L	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	220	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	I	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	218
NTDB id 1142 G																																																																																	

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NTDB id 600	KW2	RS01765	WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGKI	TKIKVV	KNVAPP	PFKVAL	VDIM	FGEGIS	STGELL	NTAVEEG	IIKK	SGAW	FAYN	312				
NTDB id 269	KZH43	RS08665	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNVAPP	PFKEAV	VEIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311				
NTDB id 228	SPD	RS09265	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNVAPP	PFKEAV	VEIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311				
NTDB id 194	SPR	RS08825	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNVAPP	PFKEAV	VEIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311				
NTDB id 159	SP	RS09750	WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVV	KNVAPP	PFKEAV	VEIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311				
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVV	KNVAPP	PFKEAF	VEIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311				
NTDB id 499	SM12261	RS08315	WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVV	KNVAPP	PFKEAF	VEIMY	GEGISK	TGELLK	IASDL	DIKK	KAGAW	YSYK	311				
NTDB id 453	Spy49	1753c	ACI62003.1	SVRLDVRG	TQIKGTG	.DQKDS	IGKETK	IKVV	KNVAPP	PFKVAE	VEIMY	GEGISRT	GELVKI	IASDL	DIQK	KAGAW	FSYN	311				
NTDB id 408	SMU	RS09530	WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVV	KNVAPP	PFKEAF	VEIIMY	GEGISRT	GELVKI	IASDL	GIIQ	KAGAW	YSYN	311				
NTDB id 115	BSU	16940	NP 389576.2	SVRLEVR	RAEQLKQGN	.....	DVMGN	TKIKVV	KNVAPP	FRTA	AEVDIMY	GEGISKE	GEIIDL	GLTE	LDIV	QKSG	SWYSYE	292				
NTDB id 625	LCA	RS02525	WP 011374196.1	TVRLEVR	RAETIKNGT	.....	DMIGN	RARIKVV	KNVAPP	PFKVAE	VDIMY	GQGISRT	GELVDM	AVEK	DIIN	KS	GSWYSYG	294				
NTDB id 1313	DR	RS12030	WP 010888966.1	SVRLDVRK	IIGQ....	PTKVG	NDAV	ANTV	KIKTKV	KNVAA	APFKE	VELALV	YGKGF	DLQSD	LVGL	AADM	DIIN	KS	GSFYSYG	307		
NTDB id 1245	Cj1673c	YP 002345041.1	SVRLDVRK	VAT....	L.KQN	EETIG	NRV	KV	VVKN	VAPP	FRQA	EFDV	MFGE	LSRE	GELIDY	GVKL	DIVD	KS	GAWFSYK	294		
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SVRIDIR	RIAA....	L.KQN	EQHIG	NRAK	AVVKN	VAPP	FRQA	EFDIM	FGE	GISKE	GEIIDY	GVKL	DIVD	KS	GAWLSYQ	296		
NTDB id 1211	C694	RS00795	WP 000963128.1	SVRIDIR	RIAS....	L.KQN	EQHIG	NRAK	AVVKN	VAPP	FRQA	EFDIM	FGE	GISKE	GEIIDY	GVKL	DIVD	KS	GAWLSYQ	296		
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SVRIDIR	RSLSDT	GKIKDK	SEVIG	NRTK	VVKN	VAPP	FKSA	EFDIMY	GEGV	SKVGE	ILDV	ATDL	DIQK	SG	SWFSYQ	307		
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SVRLDIR	RRCGV....	V.KDG	DEIG	SETK	VVKN	VAPP	FRVQ	FDIMY	GEGIS	RMNELL	ILAE	ANGFI	IKKS	GAW	FSYD	310		
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SVRLDIR	RRTGS....	I.KKG	EEVLG	NETR	VKV	IKNV	APPFR	QA	EFDILY	GEGIS	WE	GELIDIG	VKNDI	IN	KS	GAWSYN	294	
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SVRLDIR	RRTGS....	I.KKG	EEVLG	NETR	VKV	IKNV	APPFR	QA	EFDILY	GEGIS	WE	GELIDIG	VKNDI	IN	KS	GAWSYN	294	
NTDB id 1123	OK783	RS03845	WP 003688695.1	SVRLDIR	RRTGS....	I.KKG	EEVLG	NETR	VKV	IKNV	APPFR	QA	EFDILY	GEGIS	WE	GELIDIG	VKNDI	IN	KS	GAWSYN	294	
NTDB id 1427	RS	RS02760	WP 011000510.1	SVRLDIR	RIGS....	I.KKG	DEVGN	ETKV	VVKN	VAPP	FRQA	EFDILY	GAGV	SREGEI	IDL	GV	EAKV	VE	EKS	GAWSYN	302	
NTDB id 285416	DBP88	RS20000	WP 022649140.1	SVRLDIR	RIGA....	V.KEG	DNVVG	SETR	VVKN	IA	APFK	QA	EFDILY	GEGIN	FLGEL	VDL	GV	KEK	LIE	KAGAWSYN	295	
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SVRLDIR	RRTGA....	I.KEG	EEVGN	ETRI	KVKN	IA	APFKE	ANTQIMY	GQGF	NREGEL	IDL	GV	KKM	VE	EKS	GAWSYN	293	
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SVRLDIR	RRTGA....	I.KEG	EEVGN	ETRI	KVKN	IA	APFKE	ANTQIMY	GQGF	NREGEL	IDL	GV	KKM	VE	EKS	GAWSYN	293	
NTDB id 1205	PSJM300	05545	AFN77183.1	SVRLDIR	RRTGA....	V.KEG	DEVVG	SETR	VVKN	VAPP	FRQA	EFDILY	GKGI	YRN	GEI	IDL	GV	QGL	VE	EKS	GAWAYK	293
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SVRLDIR	RIGQ....	V.KEG	DEIG	SETK	VVKN	MAPP	FRQA	EFDILY	GKGV	NQLGEL	VDL	AV	QQN	IV	QK	GAWSYQ	293	
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SVRLDIR	RIGQ....	V.KEG	DEIG	SETK	VVKN	MAPP	PFKE	AIFQILY	GKGT	NQLGEL	VDL	AV	QQD	IV	QK	GAWSYQ	293	
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consensus

-  non conserved
-  similar
-  ≥ 50% conserved