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NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
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 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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NTDB id 294672 CSC53 RS06895 WP 000368166.1
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NTDB id 1313 DR RS12030 WP 010888966.1
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
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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 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKEAVALVDIMFGEGISSTGELINIAVEEGITIKKSGAWFAYN	312
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NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTNKGKETKIKVVKNKVAPPFKEAFVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTNKGKETKIKVVKNKVAPPFKEAFVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSIGKETKIKVVKNKVAPPFKEAEVEIMYGGEGISRTGELVKIASDLDIKKAGAWFSYN	311
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKEAEVDIMYGGGISRTGELVDMAVEKDIINKSGSWYSYG	294
NTDB id 294672 CSC53 RS06895 WP 000368166.1	SVRLEVRRAEQLKQGQ.....EIVGNRTKIKVVKNKVAPPFRVAEVDIMYGGGISKEGELIDLGVENDIVDKSGAWYSYN	293
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGGEGISKEGETIIDLGTELIDIVQKSGSWYSYE	292
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGNDAAVANTVKIKTKVNKNVAAPFKEVELALVYGKGFQDQLSDLVGLAADMDIINKAGSFYSYG	307
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NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIGNRTKVVVVKNKVAPPFKSAEAFDIMYGGEGVSKVGEILDVATDLDIQKSGSWFSYQ	307
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDEIIGSETKVVVVKNKVAPPFRREVQFDIMYGGEGISRMNELLILAEANGFIKKSGAWFSYD	310
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRKKVKNKVAPPFRQAEFDILYGGEGISWEGELIDIGVKNDIINKSGAWYSYN	294
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NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGEDEVGNETKVVVVKNKVAPPFRFAEAFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYN	302
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVVVKNKMAPPFRFAEAFQILYGGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVVVKNKMAPPFKEAIFQILYGGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVVVVKNKVAPPFRQAEFQILYGGKIYRNGEIIDLGVQQGLVEKSGAWAYK	293
consensus	*!!**!* * ** *****!*****!!*!!*!!* * *****!*!*** ***** ** ***** ! !*****!	

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DEKIGQGS	ENAKKYLA	AH	PEIF	DEID	KQV	RSKF	G	LIDGE	EV	SEQD	TENK	KDE	...	PKKEEA	..	VNEEV	PLDL	GDELE	IE	385																																		
DEKIGQGS	ENAKKYLA	AH	PEIF	DEID	KQV	RSKF	G	LIDGE	EV	SEQD	TENK	KDE	...	PKKEEA	..	VNEEV	PLDL	GDELE	IE	385																																		
DEKIGQGS	ENAKKYLA	AH	PEIF	DEID	KQV	RSKF	G	LIDGE	EV	SEQD	TENK	KDE	...	PKKEEA	..	VNEEV	PLDL	GDELE	IE	385																																		
DEKIGQGS	ENAKKYLA	AD	NPEIF	DEID	HQV	RVQF	G	LIDGE	EE	IAES	...	KKDE	...	AAQVDS	..	VNEEV	TLDL	GDELE	IE	381																																		
DEKIGQGS	ENAKKYLA	AD	NPEV	FAE	IDH	HQV	RVQF	G	LIDGE	EE	AAES	...	KKDE	...	VAQVDS	..	VNEEV	TLDL	GDELE	IE	381																																	
GEKIGQGS	ENAKRYL	AD	HP	Q	FL	DEID	RK	VR	VK	F	G	LEE	SE	ES	AM	AVASE		E		TDDL	ALD	LN	G	IE	IE	377																												
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SERIGQGR	ENAKNYL	AD	HED	VE	DR	LK	V	RA	A	Y	G	IS	D	V	P	E	E	D	L	P	T	T	E	DE	Q	I	N	I	L	P	D	D	S	T	E	E	355																	
GERMGQGS	KEN	V	K	M	L	K	EN	P	Q	I	K	E	E	I	D	R	K	L	E	K	L	G	I	S	D	G	D	V	E	E	T	E	D	A	..	P	K	S	L	F	D	E	E	347										
EERLGG	REN	AK	Q	F	L	K	EN	D	I	M	L	I	Q	E	I	R	E	H	Y	G	L	D	N	G	V	V	Q	Q	A	E	E	T	Q	E	E	L	F	E	E	348														
DERIGQGS	EK	TI	AY	IA	ER	P	E	M	E	Q	E	I	R	D	R	V	M	A	A	I	R	A	G	N	A	G	E	A	P	A	L	A	P	A	P	A	E	A	E	A	E	363												
DKKLGG	RENS	K	FL	K	EN	P	E	I	A	D	E	I	T	K	A	I	Q	N	S	M	G	I	E	G	M	I		S	G	S	E	D	..	E	G	E		343																
DKKLGG	REN	A	K	L	K	E	D	K	A	L	A	D	E	I	T	L	K	I	K	E	S	I	G	S	N	E	E	I		M	P	L	P	D	E	..	P	L	E	E	M	E	347											
DKKLGG	REN	A	K	L	K	E	D	K	A	L	A	D	E	I	T	L	K	I	K	E	S	I	G	S	N	E	E	I		M	P	L	P	D	E	..	P	L	E	E	M	E	347											
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GAKIGQGS	K	D	N	V	R	V	L	K	EN	P	E	I	S	D	E	I	A	K	I	R	A	L	N	G	V	E	M	H	I		T	E	G	T	Q	D	E	T	D	G	E	R		P	E	E		348						
GAKIGQGS	K	D	N	V	R	V	L	K	EN	P	E	I	S	D	E	I	A	K	I	R	A	L	N	G	V	E	M	H	I		T	E	G	T	Q	D	E	T																

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consensus			

-  non conserved
-  similar
-  ≥ 50% conserved