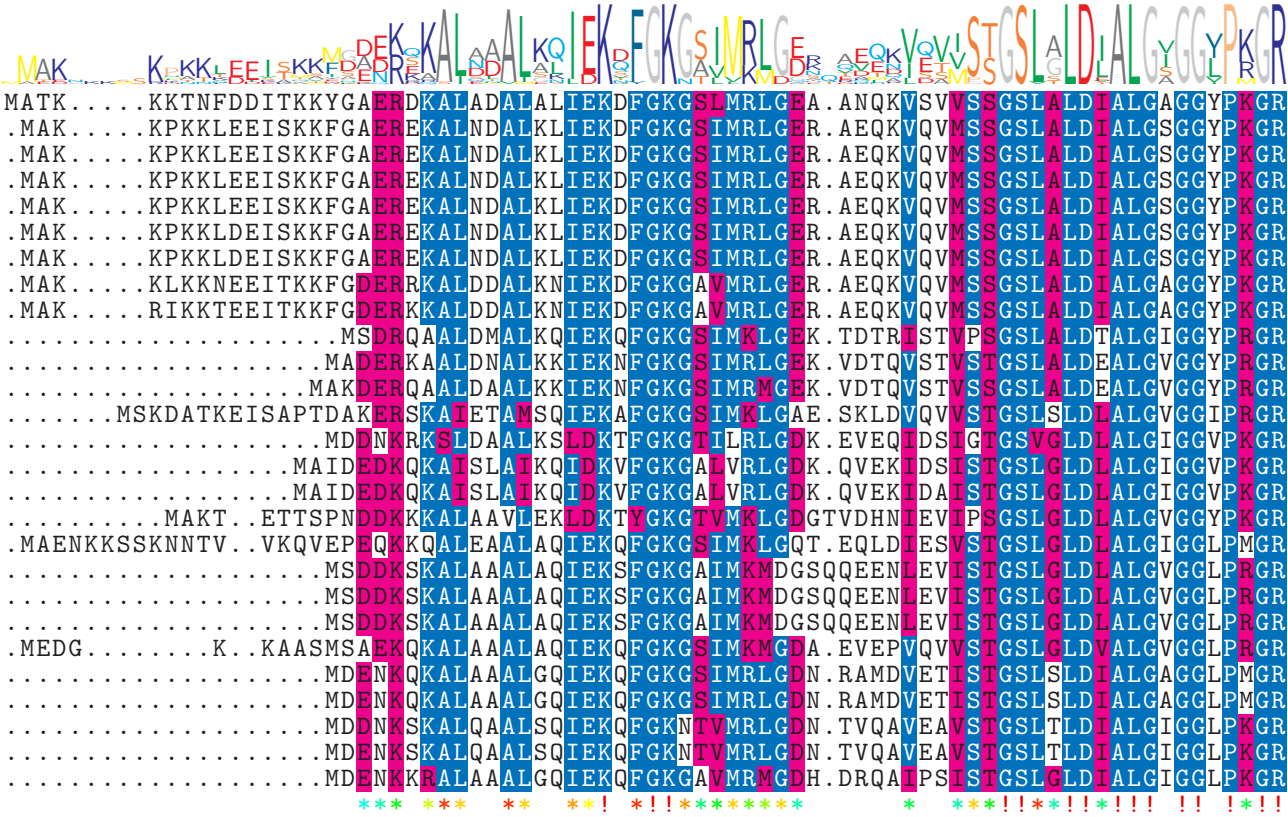


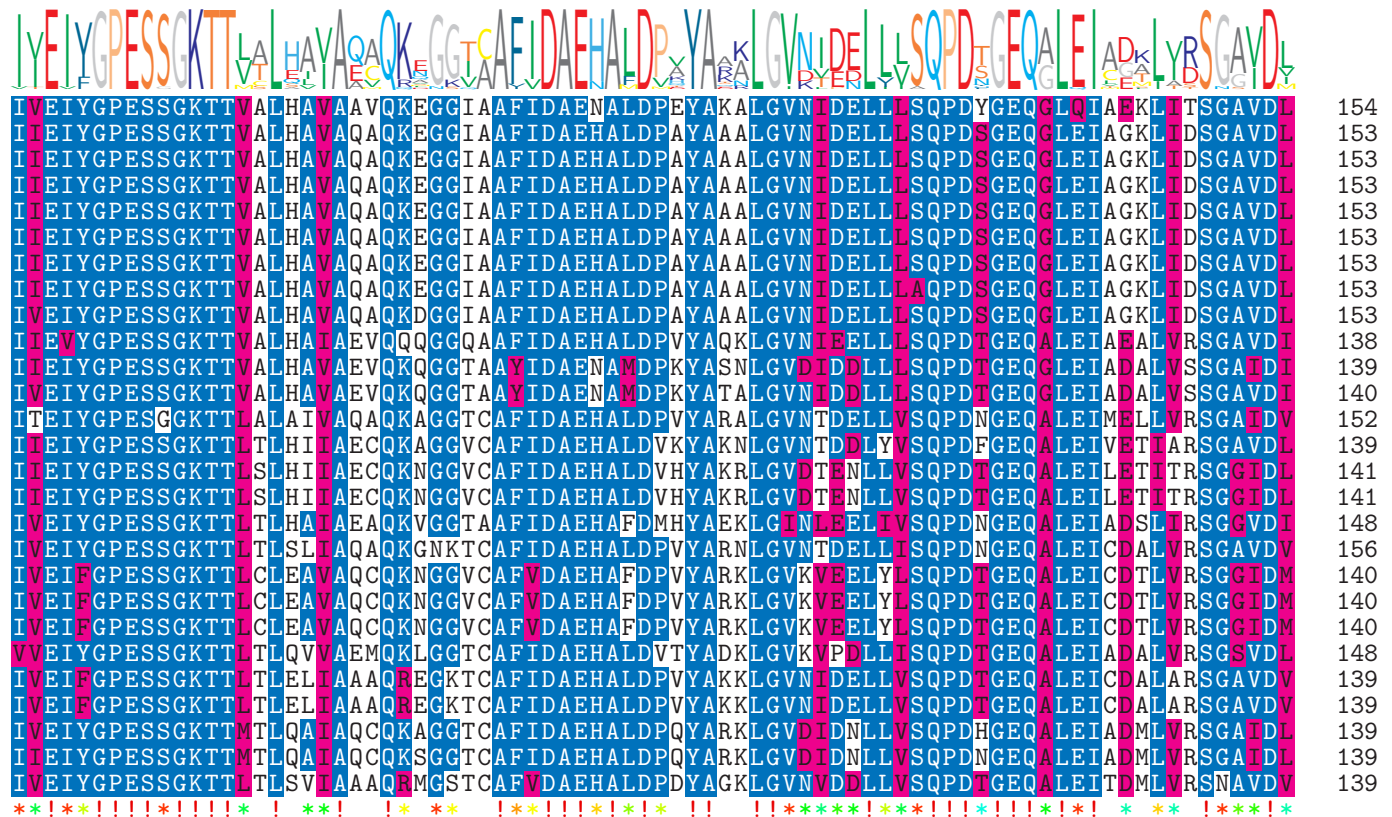
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NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 453 Spy49 1753c ACI62003.1
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NTDB id 377649 FGL77 RS07850 WP 146989458.1
NTDB id 625 LCA RS02525 WP 011374196.1
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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
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consensus

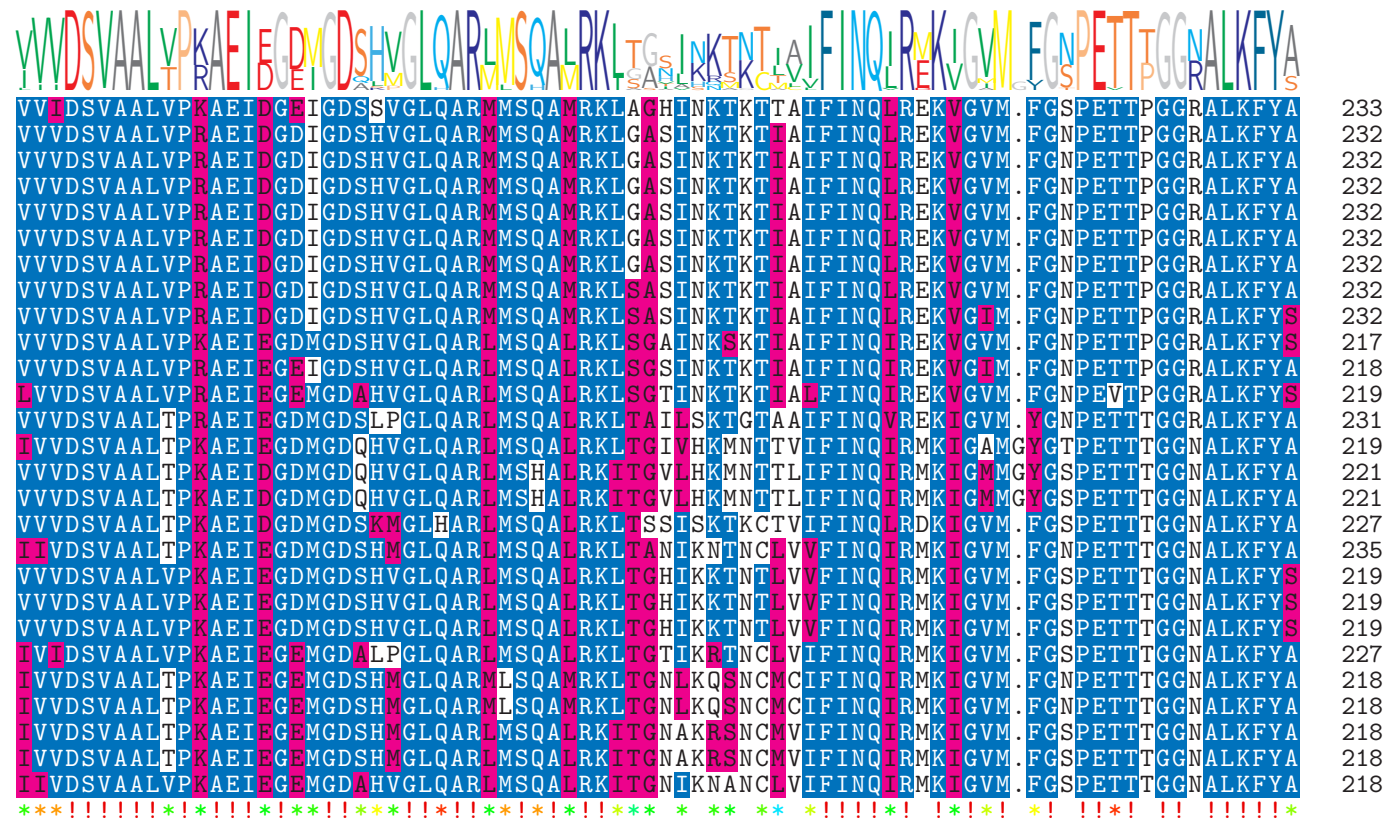


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consensus



NTDB id 600 KW2 RS01765 WP 011675413.1
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consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGKITK	IKVVKNKVAPPF	KVALVD	DIMFGEGIS	STGEL	INIAVEEG	TIKKSGAW	FAYN	312						
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVVE	EIMYGE	GEGISK	TGELLK	IASDL	DIKKAGAW	YSYK	311					
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVVE	EIMYGE	GEGISK	TGELLK	IASDL	DIKKAGAW	YSYK	311					
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVVE	EIMYGE	GEGISK	TGELLK	IASDL	DIKKAGAW	YSYK	311					
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVVE	EIMYGE	GEGISK	TGELLK	IASDL	DIKKAGAW	YSYK	311					
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFVE	EIMYGE	GEGISK	TGELLK	IASDL	DIKKAGAW	YSYK	311					
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFVE	EIMYGE	GEGISK	TGELLK	IASDL	DIKKAGAW	YSYK	311					
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TTQIKGTG	.DQKDSN	IGKETK	IKVVKNKVAPPF	KVAEVE	EIMYGE	GEGISRT	GELVK	IASDL	DIQKAGAW	FSYN	311					
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRG	NTQIKGTG	.EQKDSN	IGKETK	IKVVKNKVAPPF	KEAFVE	EIIYGE	GEGISRT	GELVK	IASDL	GIQKAGAW	YSYN	311					
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRA	EAQLKQGN		DVMGN	KT	IKVVKNKVAPPF	RTAEVD	EIMYGE	GEGISKE	GEIIDL	GT	ELDIVQKSG	SWYSYE	292				
NTDB id 377649 FGL77 RS07850 WP 146989458.1	TVRLEVRRA	EAIKEGT		NI	IGNRVK	IKVVKNKVAPPF	KVALVD	DIMYGV	GISQT	GELVDM	AVEK	DIVDKSG	SWYSYG	293				
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRA	EAIKNGT		DM	IGNRA	RIKVVKNKVAPPF	KVAEVD	DIMYGG	GISRT	GELVDM	AVEK	DIINKSG	SWYSYG	294				
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRK	IGQ....	PTKVG	NDA	VANTVK	IK	TVKNKVA	APFKE	VELAL	VYGK	GFD	QLSD	LVGLA	ADMDI	IKKAGS	FYSYG	307	
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRK	VAT....	L.KQNE	EEP	IGNRVK	IKVVKNKVAPPF	RQAEFD	DVMFGE	GLS	REGE	LIDY	GV	KLDIV	DKSGAW	FSYK	294		
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIR	RIAS....	L.KQNE	EQH	IGNRAK	IKVVKNKVAPPF	REAEFD	DIMFG	GEGISKE	GEIIDL	GV	KLDIV	DKSGAW	LSYQ	296			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIR	RIAA....	L.KQNE	EQH	IGNRAK	IKVVKNKVAPPF	REAEFD	DIMFG	GEGISKE	GEIIDL	GV	KLDIV	DKSGAW	LSYQ	296			
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIR	RSLS	DTGKIK	DKSGEV	IGNRTK	IKVVKNKVAPPF	KS	AEFD	DIMYGE	GVS	KVGEILD	VAT	DLDI	IKKSG	SWFSYQ	307		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRR	CGV....	V.KDG	DEI	IGSE	TKIKVVKNKVAPPF	REV	QFD	DIMYGE	GEGISRM	NELLIL	AEANG	F	IKKSGAW	FSYD	310		
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRR	TGS....	I.KKG	EEV	LGNETR	VKVIKN	KNVAPP	FRQAEFD	DILYGE	GEGISW	EGELID	IGV	KNDI	INKSGAW	YSYN	294		
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRR	TGS....	I.KKG	EEV	LGNETR	VKVIKN	KNVAPP	FRQAEFD	DILYGE	GEGISW	EGELID	IGV	KNDI	INKSGAW	YSYN	294		
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRR	TGS....	I.KKG	EEV	LGNETR	VKVIKN	KNVAPP	FRQAEFD	DILYGE	GEGISW	EGELID	IGV	KNDI	INKSGAW	YSYN	294		
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRR	IGS....	I.KKG	DEV	VGNETK	IKVVKNKVAPPF	REAI	F	D	ILYGA	GVS	REGE	IIDL	GV	EAKVVEK	SGAWYSYN	302	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRR	TGA....	I.KEG	EEV	VGNETRI	IKVVKNKIA	APFKE	ANTQ	IMYGG	GFNR	REGEL	ID	LV	V	KKHMK	MVEK	SGAWYSYN	293
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRR	TGA....	I.KEG	EEV	VGNETRI	IKVVKNKIA	APFKE	ANTQ	IMYGG	GFNR	REGEL	ID	LV	V	KKHMK	MVEK	SGAWYSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRR	IGQ....	V.KEG	DEI	IGSE	TKIKVVKNKMAPP	PFREAI	FQ	ILYGG	KGV	NQLG	ELVD	LAV	QQNIV	QKAGAW	YSYQ	293	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRR	IGQ....	V.KEG	DEI	VGSE	TKIKVVKNKMAPP	PFKEAI	FQ	ILYGG	KGTN	QLG	ELVD	LAV	QQDIV	QKAGAW	YSYQ	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRR	TGA....	V.KEG	DEV	VGSE	TRIKVVKNKVAPPF	RQAEFQ	ILYGG	KGIY	RNGE	IIDL	LV	V	QQGL	VEK	SGAWY	AYK	293
consensus	*!!***!* *														* * * * * ! * * ! ! ! * * * * * ! * ! * * * !			

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE....PKKEEA..	VNEEVPLDLGDELEIE		385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE....PKKEEA..	VNEEVPLDLGDELEIE		385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE....PKKEEA..	VNEEVPLDLGDELEIE		385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENKK	DE....PKKEEA..	VNEEVPLDLGDELEIE		385
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLAADNPEV	FAEIDHQVRVQFGL	IDGEEAAE....SKK	DE....VAQVDS..	VNEEVTLDLGDELEIE		381
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLAADNPEIF	DEIDHQVRVQFGL	IDGEEIAE....SKK	DE....AAQVDS..	VNEEVTLDLGDELEIE		381
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAVASE	E.....	TDDLALDLNNGIEIE		377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKQSSKEK	ETDEK..	ADKNLVLELDDTIELE		382
NTDB id 115 BSU 16940 NP 389576.2	EERLGGG	RENAAKQFLKENKD	IMLMIQEQIREHYGL	DNNGVVQQAEETQEE	LEFEE.....			348
NTDB id 377649 FGL77 RS07850 WP 146989458.1	NDRIGQG	RENAAKNYLADHP	EVMAEIKQKVREAYG	IAEPTTDSKAGTDEK	AKDKAKNKTAAKAT	..DPSTLDV.....		364
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQG	RENAAKNYLADHED	VEDEVRLKVRAAYG	ISDVPEEDLPTTEDE	QINILPDDSTEE			355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAYIAERP	EMEQEIRDRVMAAIR	AGNAGEAPALAPAPA	APAEAAEA.....			363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGG	RENSKAFLENPEIA	DEITKAIQNSMGIE	GMI....SGSEDD..	EGEE.....			343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGG	RENAAKALLKEDKA	LADAITLKIKESIGS	NEEI....MPLPDE..	PLEEME.....			347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGG	RENAAKALLKEDKA	LADAITLKIKESIGS	NEEI....MPLPDE..	PLEEME.....			347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGG	RDTVKELIKDNPELA	EELAKIREKLQAK					343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWLKENPEIA	DKLEQEIRNTLASNP	NS....VLKATASDS	NDESDEVE..EFSE	EEL.....		372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEM	HI....TEGTQDET	DGER.....PEE			348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEM	HI....TEGTQDET	DGER.....PEE			348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNGVEM	HI....TEGTQDET	DGER.....PEE			348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENAEL	AREIENKVREHLGV	TPMG....AVTLA..	EEVEED.....			352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENM....QLIAET	SSAADDVEFG..	AVPEEF.....		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQG	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENM....QLIAET	SSAADDVEFG..	AVPEEF.....		354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYLEENPQIS	TEIEAVIREQLLTKAS	D....QTAA.HDET	EEEPDLL....ES			349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENNQIA	EIEIERNIREQLLT	TGTN....GAVQ.I	EDEEEPDLL....	LES.....		349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAACKYLEENPEI	GQIEIEQIRAKLLV	TSAN....TKATP	VPAEDLADADI			347
consensus	***!!!	*****	**	*	***	*****	**	*

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NTDB id 600 KW2 RS01765 WP 011675413.1	...		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE		388
NTDB id 228 SPD RS09265 WP 001085462.1	IEE		388
NTDB id 194 SPR RS08825 WP 001085462.1	IEE		388
NTDB id 159 SP RS09750 WP 001085462.1	IEE		388
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE		384
NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE		384
NTDB id 453 Spy49 1753c ACI62003.1	D..		378
NTDB id 408 SMU RS09530 WP 002262392.1	D..		383
NTDB id 115 BSU 16940 NP 389576.2	...		348
NTDB id 377649 FGL77 RS07850 WP 146989458.1	...		364
NTDB id 625 LCA RS02525 WP 011374196.1	...		355
NTDB id 1313 DR RS12030 WP 010888966.1	...		363
NTDB id 1245 Cj1673c YP 002345041.1	...		343
NTDB id 1211 C694 RS00795 WP 000963128.1	...		347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	...		347
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NTDB id 1123 OK783 RS03845 WP 003688695.1	...		348
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	...		349
NTDB id 1205 PSJM300 05545 AFN77183.1	...		347
consensus			

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