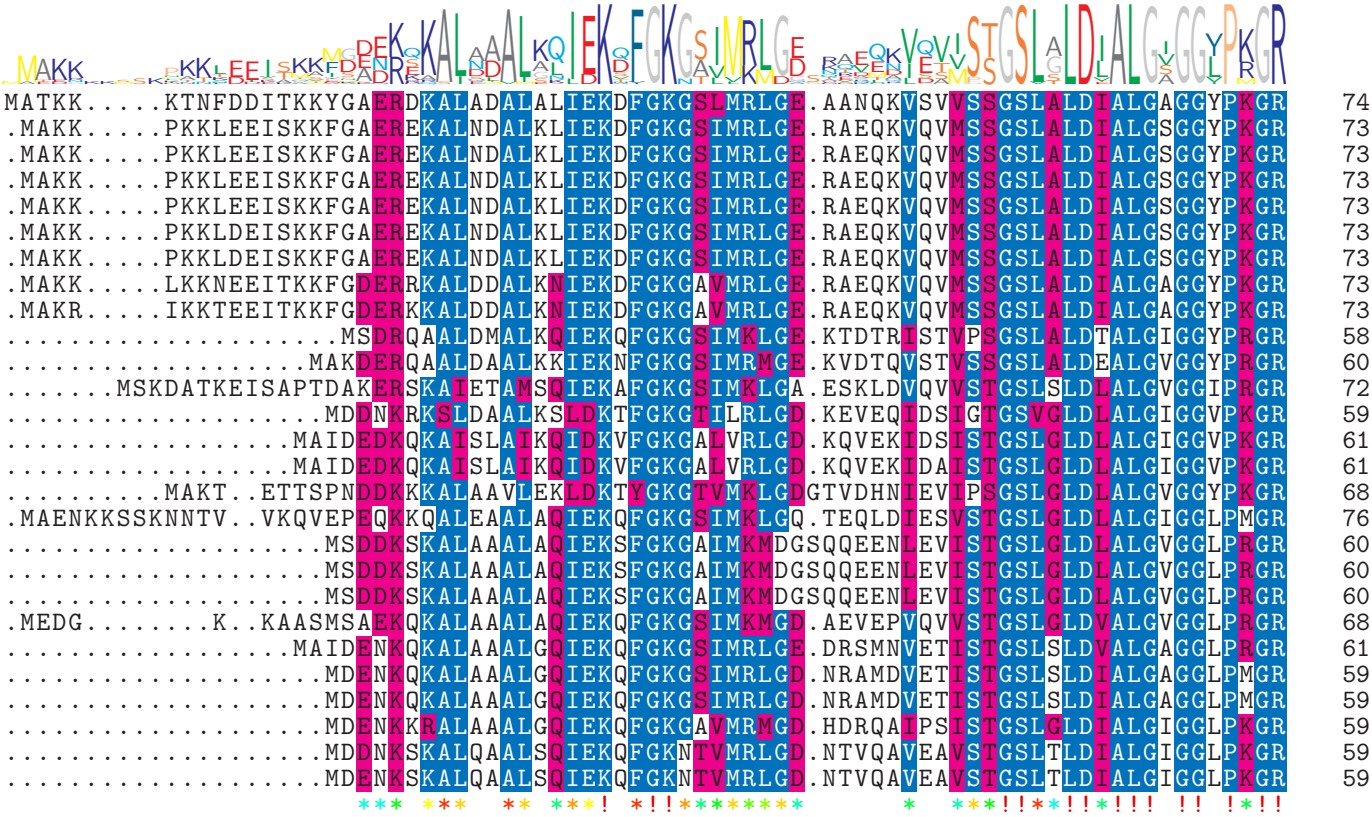
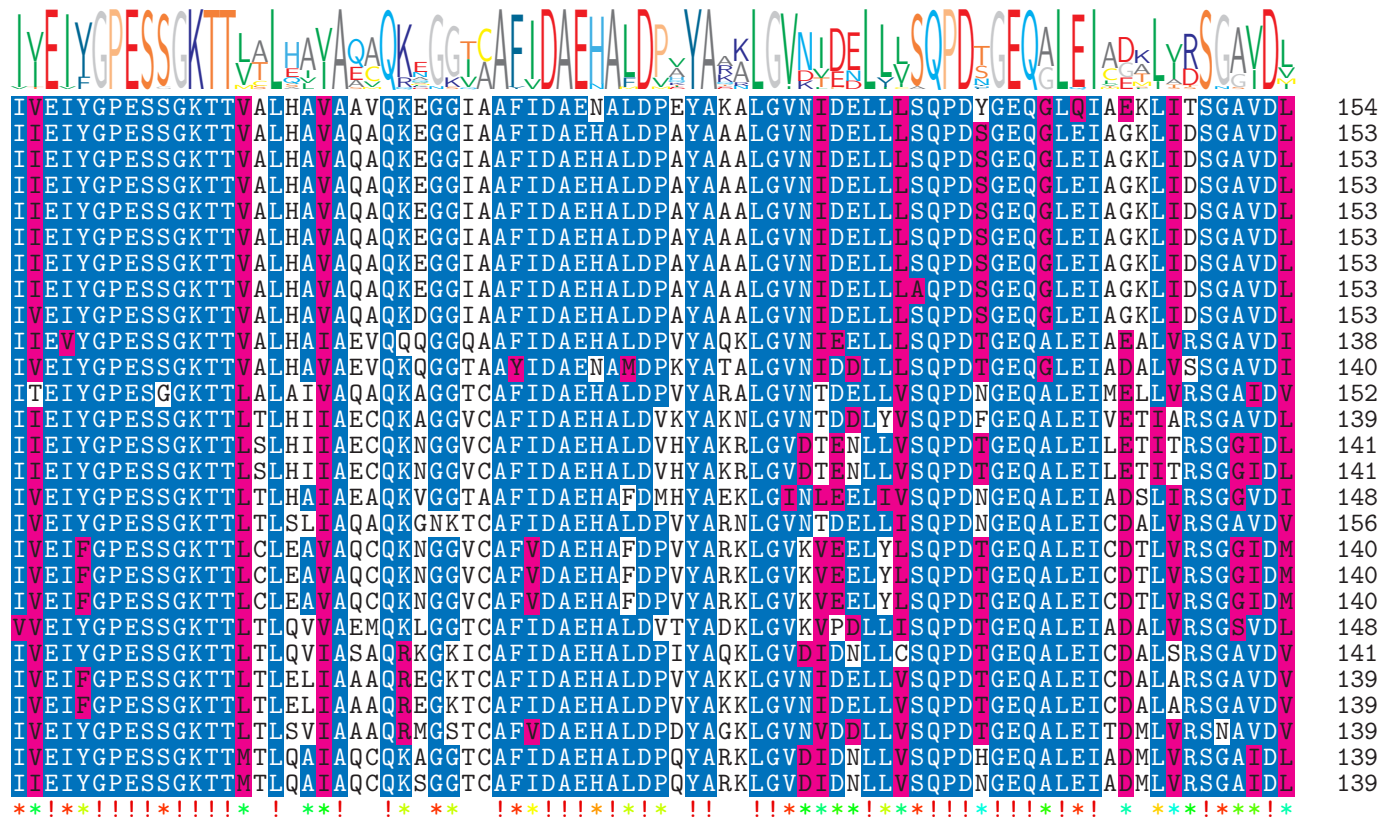


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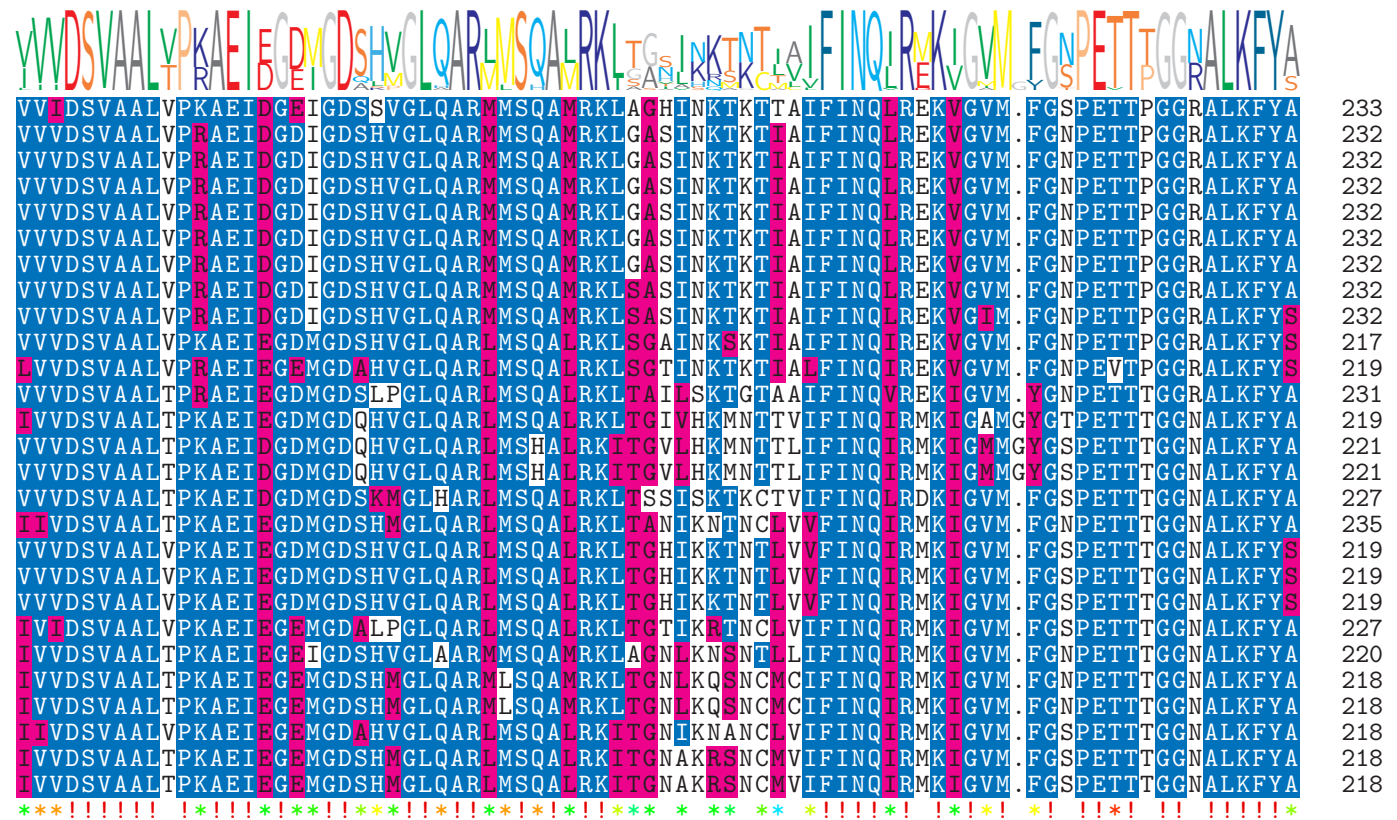
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NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 625 LCA RS02525 WP 011374196.1
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
NTDB id 1130 NGFG RS03960 WP 003688695.1
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NTDB id 1123 OK783 RS03845 WP 003688695.1
NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 422951 G4D35 RS04720 WP 163801653.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus



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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKEA	LDIMFGEGISSTGELINIAVEEGIITKKSGAWFAYN	312				
NTDB id 269 KZH43 RS08665 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDI	IKKAGAWYSYK 311				
NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDI	IKKAGAWYSYK 311				
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDI	IKKAGAWYSYK 311				
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKEAVVEIMYEGEGISKTGELLKIASDLDI	IKKAGAWYSYK 311				
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDLDI	IKKAGAWYSYK 311				
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEAFVEIMYEGEGISKTGELLKIASDLDI	IKKAGAWYSYK 311				
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSN	IGKETKIKVVKNKVAPPFKEAEVEIMYEGEGISRTGELVKIASDLDI	IKKAGAWFSYN 311				
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEAFVEIITYEGEGISRTGELVKIASDLGI	IKKAGAWYSYN 311				
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFR	TAEVDIMYEGEGISKEGEIIDLGTELDIVQKSGSWYSYE	292				
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKEAEV	DIMYGGISRTGELVDMAVEKDIINKSGSWYSYG	294				
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKTVKNKVAAPFKEVELALVYGKGFQDLSDLVGLAADM	DIKKAGSFYSYG 307				
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKVAT....L.KQNEEP	IGNRVKVVKNKVAPPFRQAEFDVMFGEGLSREGELIDYGVKLDIVDKSGAWFSYK	294				
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQH	IGNRAKAKVVKNKVAPPFRQAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296				
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA....L.KQNEQH	IGNRAKAKVVKNKVAPPFRQAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296				
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKVVKNKVAPPFKSAEFDIMYEGGVSKVGEILDVATDLDIIQKSGSWFSYQ	307				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDEI	IGSETKVVKNKVAPPFREVQFDDIMYEGEGISRMNELLILAEANGFITKKSGAWFSYD	310				
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294				
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294				
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294				
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGEDEV	GNETKVVKNKVAPPFRQAEFDILYAGVSRGEIIDLGV	EAKVVEKSGAWYSYN 302				
NTDB id 422951 G4D35 RS04720 WP 163801653.1	SVRLDIRRIGS....V.KNGDEV	IGSETRKVVKNKVAAPFKQAEFQIMYEGEGINTYGELIDLG	VKHKLV	EKAGAWYSYN 295			
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEV	VGNETRIKVVKNKIAAPFKEANTQIMYGGGFNRREGELIDLG	VKHKMVEKSGAWYSYN 293				
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEV	VGNETRIKVVKNKIAAPFKEANTQIMYGGGFNRREGELIDLG	VKHKMVEKSGAWYSYN 293				
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEV	IGSETRKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLG	VQQLVEKSGAWYAYK 293				
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEI	VGS	ETKVVKNKMAPPFRQAEIFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEI	VGS	ETKVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293			
consensus	*!!**!* *	*	** *****!*****!*****!*	*	*****!*****	*****	*** !*****!

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAE		TEEETTAS	TKAKAKKEE	KAVETEE	IELELED	387			
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKF	GLIDGEEVSE	....	QDTENKKDE	....	PKKEEA..VNEEV	PLDLGD	380		
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKF	GLIDGEEVSE	....	QDTENKKDE	....	PKKEEA..VNEEV	PLDLGD	380		
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKF	GLIDGEEVSE	....	QDTENKKDE	....	PKKEEA..VNEEV	PLDLGD	380		
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLA	EHPEIF	DEIDKQVRSKF	GLIDGEEVSE	....	QDTENKKDE	....	PKKEEA..VNEEV	PLDLGD	380		
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLA	DNPEIF	DEIDHQVRVQF	GLIDGEEIAE	....	S....	KKDE....	AAQVDS..VNEEV	TLDLGD	376		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLA	DNPEV	FAEIDHQVRVQF	GLIDGEEAAE	....	S....	KKDE....	VAQVDS..VNEEV	TLDLGD	376		
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLA	DHPQLF	DEIDRKVRVKF	GLLEESEES		AMAVASE		E.....	TDDLAL	DLDN	372	
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLA	DNPEIF	DDIDHKVRVQY	GLIEEDNTEE		KQSSKEK		ETDEK..	ADKNL	VLELDD	377	
NTDB id 115 BSU 16940 NP 389576.2	EERLGGGR	ENAKQFL	KENKDI	IMLIQEQ	IREHYGL	DNNGVVQQ	....	QAEETQEEL	.EFE.E	.....	348		
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR	ENAKNYLA	DHEDVE	DEVRLKVR	AAAYGISD	VPEEDL		PTTEDE.QI	.NILP	DDST		EE	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAYIA	ERP	MEQEIR	DRVMAAIR	AGNAGEA	PALAPAPA	AAPEAAEA				363	
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGGR	ENSKAFL	KENPEIA	DEITKAI	QNSMGTE	GMIS	....	GSEDDE.GEE	.....	.....	343		
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGGR	ENAKALLK	EDKALADE	ITLKI	KESIGS	NEEIM	....	PLPDEP.LEEM	.E	.....	347		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGGR	ENAKALLK	EDKALADE	ITLKI	KESIGS	NEEIM	....	PLPDEP.LEEM	.E	.....	347		
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGGR	DTVVKELIK	DNPELA	ELEAKI	IREKLQAK	.....	.....	.....	.....	.....	343		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGK	NNAVKWL	KENPEIA	DKLEQEIR	NTLAS	NPNSV		LKATAS	DSN....	DESDV	EEL..SE..EEL..	372	
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGK	DNVRVWL	KENPEIS	DEIDAKIR	ALNGVEM	HIT....	EGTQD		ETD....	GERPEE	...	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGK	DNVRVWL	KENPEIS	DEIDAKIR	ALNGVEM	HIT....	EGTQD		ETD....	GERPEE	...	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGK	DNVRVWL	KENPEIS	DEIDAKIR	ALNGVEM	HIT....	EGTQD		ETD....	GERPEE	...	348	
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFL	RENAELARE	IENKVR	EHLGV	TPMGA	....	VTLAE	.EVE....	ED	352		
NTDB id 422951 G4D35 RS04720 WP 163801653.1	GEKIGQGK	ANATNYL	KEHPEMYN	ELNTKL	REMLLN	HAGEF		TSAAD	FAGEES	.DSDADD	TKE	355	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGK	ANACKY L	KENPEIA	KTLDK	KLREML	LNPNENMQ		LIAET		SSAADD	VEF...GAV	PEEF..	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGK	ANACKY L	KENPEIA	KTLDK	KLREML	LNPNENMQ		LIAET		SSAADD	VEF...GAV	PEEF..	354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGK	ANAAKYLEEN	PEIGQEIE	QQIRAKLL	VTSANT	....	KATPVAEDL	....	ADADI	.....	347		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGK	NNVIRYLEEN	PQISTEIE	AVIREQL	LTKASDQ		TAA.HDETE		EEDP	LLES		349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGK	NNVIRYFEEN	NQIAEEIERN	IREQL	LTGTNG		AVQ.I.EDE		EEDP	LLE	S	349	
consensus		***!!!*****	***	*	***	*****	***	*	*	*			

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NTDB id 600 KW2 RS01765 WP 011675413.1			387
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELEIEIEE		388
NTDB id 228 SPD RS09265 WP 001085462.1	ELEIEIEE		388
NTDB id 194 SPR RS08825 WP 001085462.1	ELEIEIEE		388
NTDB id 159 SP RS09750 WP 001085462.1	ELEIEIEE		388
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELEIEIEE		384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELEIEIEE		384
NTDB id 453 Spy49 1753c ACI62003.1	GIEIED..		378
NTDB id 408 SMU RS09530 WP 002262392.1	TIELED..		383
NTDB id 115 BSU 16940 NP 389576.2	.....		348
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
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 422951 G4D35 RS04720 WP 163801653.1	.....		355
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....		354
NTDB id 1205 PSJM300 05545 AFN77183.1	.....		347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....		349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....		349
consensus			

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