

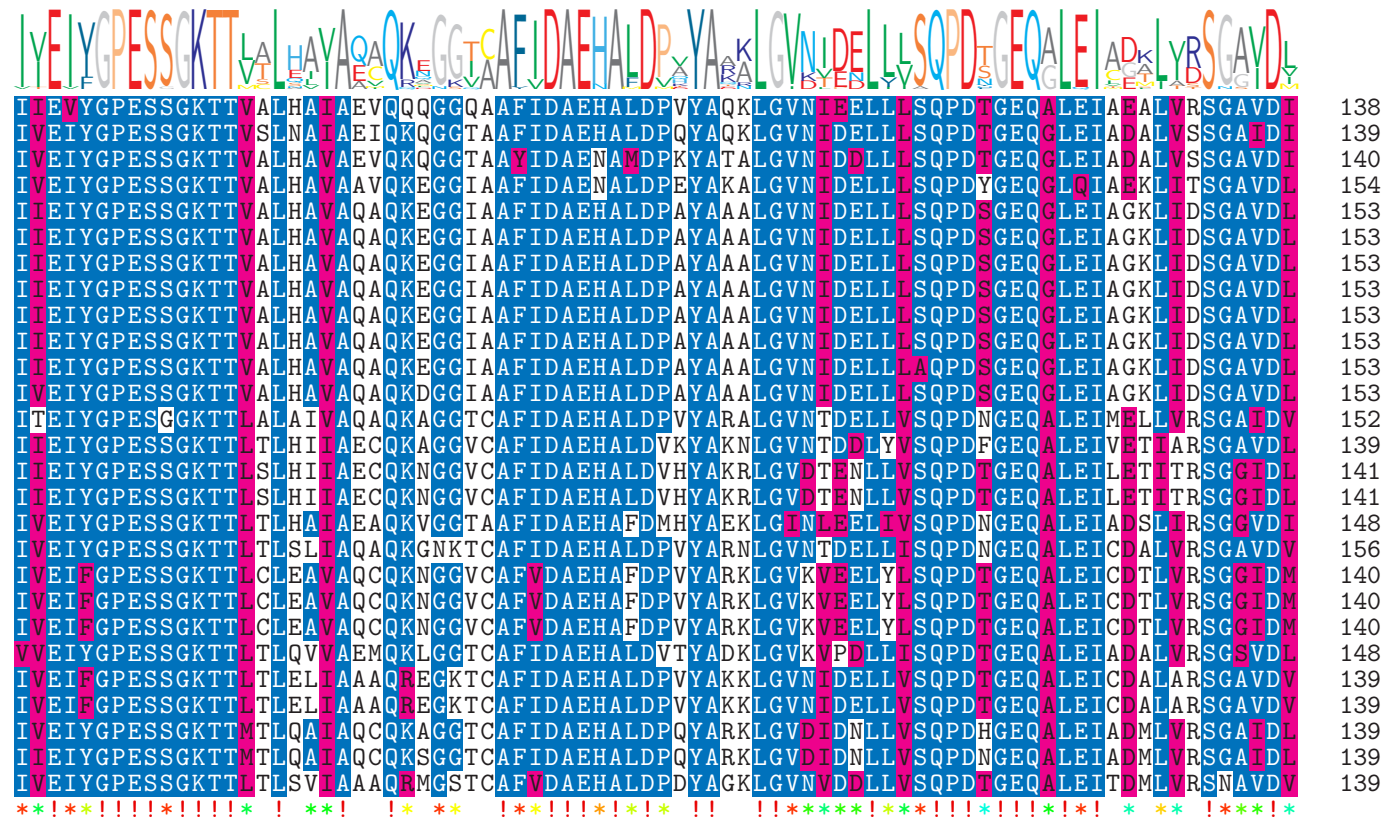
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NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQ	IEKQFGKGSIMKLGEK	.TDTR	ISTVPSGSLALD	TALGIGGYPRGR	58		
NTDB id 75312 GOZ47 RS08225 WP 013773216.1	MA	DDRKTALDAALKK	IEKNFGKGSIMKLGEK	.ADQQ	VATVPSGSLALD	VALGVGGYPRGR	59		
NTDB id 625 LCA RS02525 WP 011374196.1	MAK	DERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQ	VSTVSSGSLALD	EALGVGGYPRGR	60		
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....	KKTNFDDITKKYGA	ERDKALADALAL	IEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALD	TALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALD	TALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALD	TALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....	KPKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALD	TALGSGGYPKGR	73
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NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....	KPKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALD	TALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....	KLKKNEEITKKFG	DERRKALDDALKN	IEKD	FGKGAVMRLGER	.AEQKVQ	VMSGSLALD	TALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....	RIKKTEEITKKFG	DERKKALDDALKN	IEKD	FGKGAVMRLGER	.AEQKVQ	VMSGSLALD	TALGAGGYPKGR	73
NTDB id 1313 DR RS12030 WP 010888966.1	MSK	DATKEISAPTDAK	ERSKAT	IETAMSQ	IEKAFGKGSIMKLGA	E.SKLD	VQVVSTGSLSLD	LALGVGGIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MD	DNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQ	IDSIGTGSVGLDL	LALGIGGVPRGR	59		
NTDB id 1211 C694 RS00795 WP 000963128.1	MAID	EDKQKATISLAIKQ	IDKVF	FGKGALVRLGDK	.QVEKID	SISTGSLGLDL	LALGIGGVPRGR	61	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAID	EDKQKATISLAIKQ	IDKVF	FGKGALVRLGDK	.QVEKID	AISTGSLGLDL	LALGIGGVPRGR	61	
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..	ETTSNPDDKK	KALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	IEVIPS	SGSLGLDL	LALGVGGYPRGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..	VKQVEPEQKKQ	ALEAALAQIEKQ	FGKGSIMKLQGT	.EQLD	IESVSTGSLGLDL	LALGIGGLPMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALAQ	IEKSFGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	LALGVGGLPRGR	60			
NTDB id 1124 NGFG RS03960 WP 003688695.1	MS	DDKSKALAAALAQ	IEKSFGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	LALGVGGLPRGR	60			
NTDB id 1123 OK783 RS03845 WP 003688695.1	MS	DDKSKALAAALAQ	IEKSFGKGAIMKMDGSQ	QEENLEVISTGSLGLDL	LALGVGGLPRGR	60			
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....	K..KAASMSAEKQ	KALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQ	VVSTGSLGLD	VALGVGGLPRGR	68	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	TALGAGGLPMGR	59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MD	ENKQKALAAALGQ	IEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	TALGAGGLPMGR	59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MD	DNKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	TALGIGGLPKGR	59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MD	ENKSKALQAALSQ	IEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	TALGIGGLPKGR	59		
NTDB id 1205 PSJM300 05545 AFN77183.1	MD	ENKKRALAAALGQ	IEKQFGKGAVMRMGDH	.DRQA	IPSISTGSLGLD	TALGIGGLPKGR	59		
consensus	***	***	*	***	***	***	***	***	***

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NTDB id 115 BSU 16940 NP 389576.2
NTDB id 75312 G0Z47 RS08225 WP 013773216.1
NTDB id 625 LCA RS02525 WP 011374196.1
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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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 RA0C 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 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

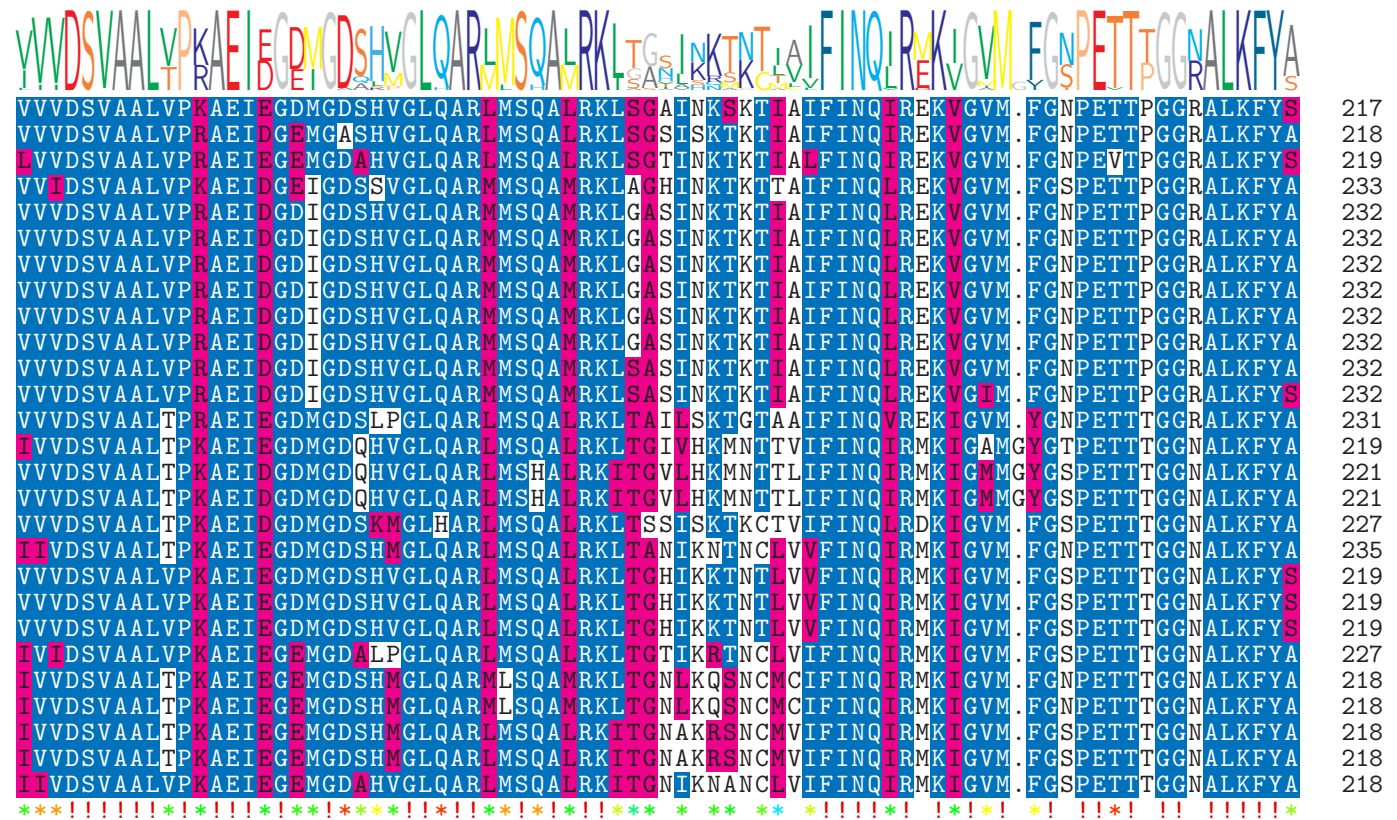
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NTDB id 194 SPR RS08825 WP 001085462.1
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consensus

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NTDB id 115 BSU 16940 NP 389576.2	SVRLDVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYGEGISKEGEIIDLGTELDIVQKSGSWYSYE	292
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGGISRTGELVDMAVEKDIIINKSGSWYSYG	294
NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRGSTKIEEGS.GDNKTQIGKITKIKVVKNKVAPPFKVALVDIMFGEGISSTGELLNIAVEEGIIKKSGAWFAYN	312
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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKEAVVEIMYGEGISKTGELLKIASDLDIKKKAGAWYSYK	311
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NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRIAS....L.KQNEQHIGNRAKAKVVKNKVAPPFREAEFDIMFGEGISKEGEIIDYGVKLDIVDKSGAWLSYQ	296
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVVVKNKMAPPFREAIQFQILYGKGYNQLGELVDLAVQQNIVQKAGAWYSYQ	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVVVKNKMAPPFKEAIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVRVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWAYK	293
consensus	*!!**!* * * * * !!*!!*!!* * * * * !!*!!*!!* * * * * !!*!!*!!* * * * * !!*!!*!!*	

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NTDB id 115 BSU 16940 NP 389576.2	EERLGGQREN	AKQFLKENKDI	IMLMIQE	QIREHYGL	DNNGVVQQ	AAEETQ		EELEFEE		348				
NTDB id 75312 GOZ47 RS08225 WP 013773216.1	EERIGQGREN	VKNYMI	EHPEMVE	EISKKVR	KAFGI	ETDADTDASTKTNKEETGNITDKTD		AQEALPLDE		362				
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGREN	AKNYLADHED	VEDDEVRLK	VRAAYGIS	SDVPEEDLPTTEDEQ	..	INILPDDS		TEE		355			
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NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEH	PEIFDEID	KQVRSKFG	LIDGEEVSEQDTENKKDE		PKKEEA	..VNE	EVPLDLGDELEIE	385				
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEH	PEIFDEID	KQVRSKFG	LIDGEEVSEQDTENKKDE		PKKEEA	..VNE	EVPLDLGDELEIE	385				
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NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHP	QLFDEID	DRKVRVKF	GLLEESEES	AMAVASE		E		TDDLALDLNGIEIE	377			
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADN	PEIFDDID	HKVRVQY	GLIEEDN	TEEKQSSKEK		ETDEK	..ADKNLVLELDDTIELE	382				
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAYIA	ERP	EME	QEIRDR	VMAAIRAGNAGEAPALAPAPAAPEAA	..EA			363				
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGRE	NSKAF	LKENPEIA	DEITKAI	QNSMG	IEGMI		SGSEDD	..EG	..EE		343		
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGRE	NAKALLKED	KALADEIT	TLKIKESIG	SNEEI		MPLPDE	..PL	..EEME		347			
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NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGR	DTV	KELIK	DNPELA	EELEAK	IREKLQAK				343				
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGN	NAVKWLKEN	PEIADKLE	QEIRNTL	ASNPN		VLKATASDSN	..	DESDVEEFSE	EEL		372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGD	NVRVWLKEN	PEISDEID	AKIRALNG	VEMHI		TEGTQDET	DG	..ER		348			
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGD	NVRVWLKEN	PEISDEID	AKIRALNG	VEMHI		TEGTQDET	DG	..ER		348			
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGD	NVRVWLKEN	PEISDEID	AKIRALNG	VEMHI		TEGTQDET	DG	..ER		348			
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCRE	FLRENA	ELARE	EIENK	VREHLGV	TPMG		AVTLA	..EEVE	..ED		352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGN	ANACKYLKEN	PEIAKTLD	DKKLREMLLN	PNENM		QLIAETSSAA	..	DDVEFGAVPE	EEF		354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGN	ANACKYLKEN	PEIAKTLD	DKKLREMLLN	PNENM		QLIAETSSAA	..	DDVEFGAVPE	EEF		354		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGN	NNVIRYLEEN	PQISTE	IEAV	IREQLLT	TKASD		QTAA	..HDETE	..EEPDLL	..ES		349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGN	NNVIRYFEENN	QIAE	EIERN	IREQLLT	TGTN		GAVQ	..I	..EDE	..EEPDLL	..LES		349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGN	ANA	AKYLEEN	PEIGQ	EIEQQ	IRAKLL	VTSAN		TKATPVAEDL	..	ADADI		347	
consensus	***!!!	*****	**	*	***	*****	**	*	*	*	*	*	*	*

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NTDB id 115 BSU 16940 NP 389576.2	...		348
NTDB id 75312 GOZ47 RS08225 WP 013773216.1	...		362
NTDB id 625 LCA RS02525 WP 011374196.1	...		355
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 1313 DR RS12030 WP 010888966.1	...		363
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	...		372
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	...		354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...		349
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