

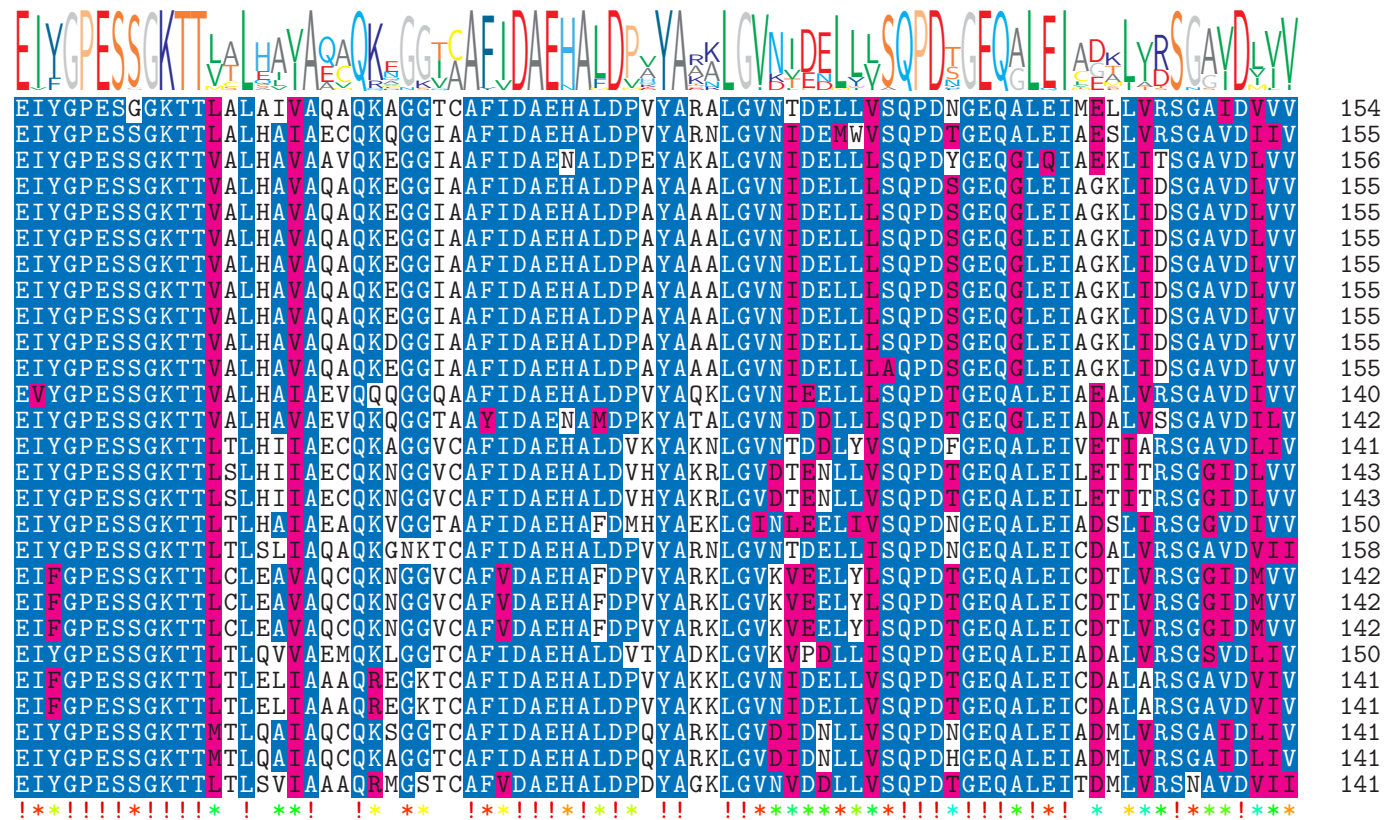
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NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD...ATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.S.KLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
NTDB id 37953 SPIRS RS10365 WP 013254637.1	.MAKK...T.MTASASYENREEKEKALEAARLQIEKQFGKGSIMKLGGENRQGNITETIPSGSILLDAALGVGGYPKGRIV	75
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEAA.NQKVSVVSSGSLALDIALGAGGYPKGRIV	76
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDIALGSGGYPKGRIT	75
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGERA.EQKVQVMSSGSLALDIALGAGGYPKGRIV	75
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGERA.EQKVQVMSSGSLALDIALGAGGYPKGRIT	75
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEKT.DTRISTVPSGSLALDIALGIGGYPRGRIT	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEKV.DTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIT	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQIDKVFVGKGAIVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQIDKVFVGKGAIVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPNDDKKKALAAVLEKLDKT.YGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGRIV	70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLQGT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV	78
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVV	70
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV	61
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIT	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRIV	61
consensus	*** **	

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NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 37953 SPIRS RS10365 WP 013254637.1
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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 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
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NTDB id 1427 RS RS02760 WP 011000510.1
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

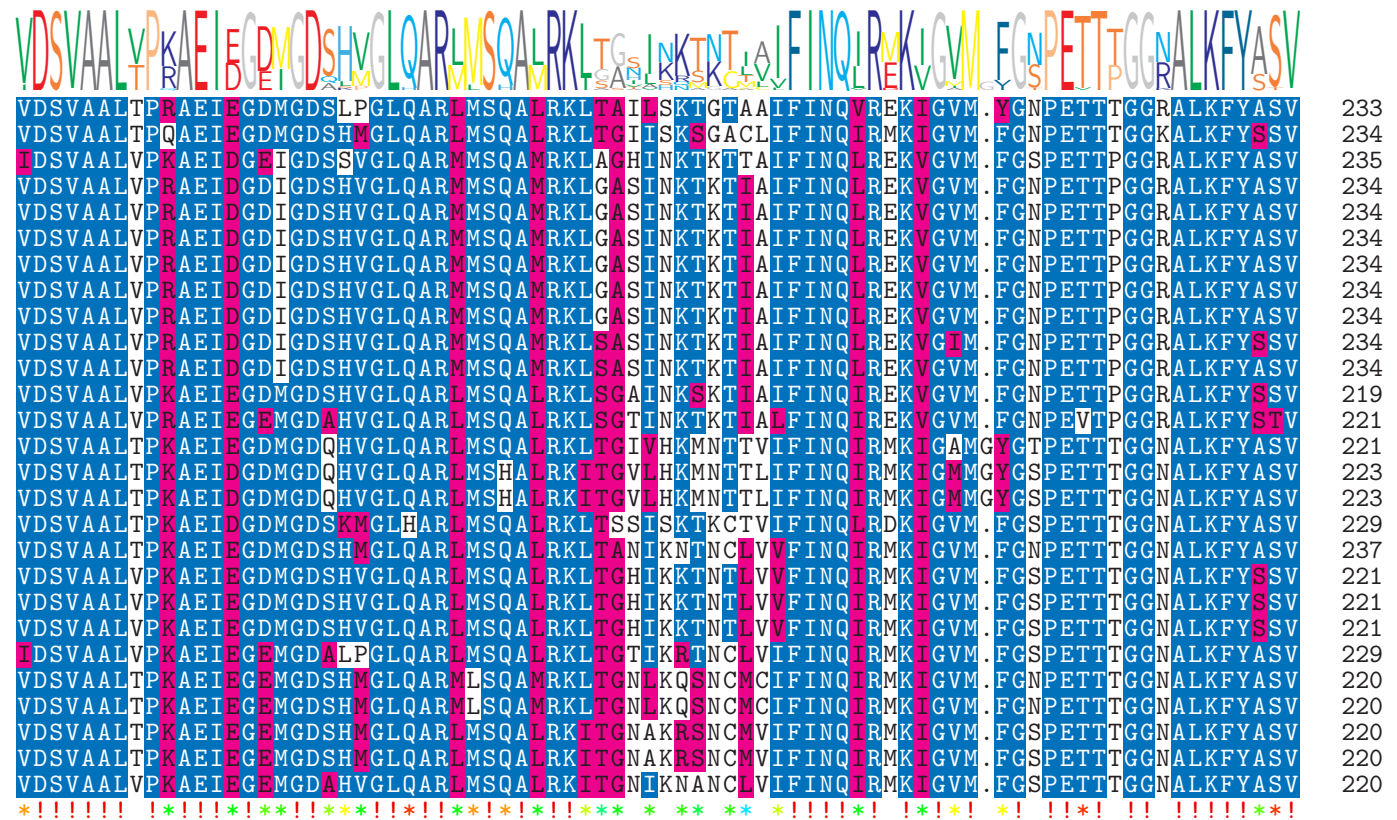
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consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIM	YGE	GISK	TGELL	KIASDL	DI	IKKAG	AWSYK	DE	313		
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIM	YGE	GISK	TGELL	KIASDL	DI	IKKAG	AWSYK	DE	313		
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIM	YGE	GISK	TGELL	KIASDL	DI	IKKAG	AWSYK	DE	313		
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFKE	AVVEIM	YGE	GISK	TGELL	KIASDL	DI	IKKAG	AWSYK	DE	313		
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NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRAETIKNGT.....	DMIGNR	ARIKVVKNKV	APPFK	VAEVDIM	YGG	GISRT	GELV	DMAVE	KDI	INKS	GSWYSY	GSE	296		
NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVAT....L.KQNEEP	IGNRVK	VVVKNKV	APPFQR	AEFDVM	FGEGL	SREGE	LIDY	GVKLD	DI	VDKS	GAW	FSYKDK	296		
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIAS....L.KQNEQH	IGNRAK	AKVVKNKV	APPFRE	AEFDIM	FGE	GISKE	GEI	IDY	GVKLD	DI	VDKS	GAW	LSYQDK	298	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRAK	AKVVKNKV	APPFRE	AEFDIM	FGE	GISKE	GEI	IDY	GVKLD	DI	VDKS	GAW	LSYQDK	298	
NTDB id 1334 RAOC RS04870 WP 004918236.1	RIDIRRLSDTGKIKDKSGEV	IGNRTK	VVVKNKV	APPFKS	AEFDIM	YGE	GVS	KVGE	ILDV	ATDL	DI	QKS	GSW	FSYQDT	309	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	RLDIRRCGV....V.KDGEI	IGSETK	VVVKNKV	APPFRE	VQFDIM	YGE	GISR	MNELL	ILAE	ANGF	IKKS	GAW	FSYDGT	312		
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NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGS....I.KKGEVL	GNETRV	KVIKNKV	APPFQ	AEFDIL	YGE	GISW	EGEL	IDIG	VKNDI	INKS	GAW	SYNGA	296		
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRIGS....I.KKGEV	GNETK	VVVKNKV	APPFRE	AIFDIL	YGA	VSRE	GEI	IDL	GV	EAKV	VVEK	SGAW	SYNGE	304	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEGEEV	VGNETR	IKVVKNK	IAAPFKE	ANTQIM	YGG	GFNR	REGEL	IDL	GVKHK	MVEK	SGAW	SYNGD	295		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEGEEV	VGNETR	IKVVKNK	IAAPFKE	ANTQIM	YGG	GFNR	REGEL	IDL	GVKHK	MVEK	SGAW	SYNGD	295		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQ....V.KEGDEI	VGSETK	VVVKNK	MAPPFKE	AIFQIL	YGK	GTNQL	GELV	DLAV	QQD	IVQK	AGAW	SYQGN	295		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQ....V.KEGDEI	IGSETK	VVVKNK	MAPPFRE	AIFQIL	YGK	GVNQL	GELV	DLAV	QQN	IVQK	AGAW	SYQGN	295		
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGDEV	VGS	ETRV	KVVKNKV	APPFQ	AEFQIL	YGK	GIYR	NGE	IIDL	GV	QQGL	LVEK	SGAW	AYKGS	295
consensus	!***!*	*	**	*****!***!!*!!*!!*	*	*****!*!***	*****	***	***	! !****	!	****	!			

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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERPEMEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
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NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASK..TKAKAKKEEKAVETEEIELELED.....	387
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NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE.....PKKEEA..VNEEVPLDLGDELEIE	385
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NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAE....SKKDE.....AAQVDS..VNEEVTLDLGDELEIE	381
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NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIE	377
NTDB id 115 BSU 16940 NP 389576.2	RLGQGRENAKQFLKENKDIMLMIQEIQREHYGLDNNGVVQQAAETQEEL...EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI...NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGRENSKAFLENKENPEIADEITKAIQNSMGIEGMISGSEDDE..GEE.....	343
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDESDVE.EF.....SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....G.ER.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....G.ER.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDET.....G.ER.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAV.TLAEVEVED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADVVEFG.AV.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADVVEFG.AV.....PEEF.....	354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGTNGAVQ.I.EDEEEDPD...LL.....LES.....	349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEDPD...LL.....ES.....	349
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAKYLEENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADAD...I.....	347
consensus	**!!!!***** ** ***** ***** ** *	

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NTDB id 1313 DR RS12030 WP 010888966.1	...	363	
NTDB id 37953 SPIRS RS10365 WP 013254637.1	...	381	
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NTDB id 269 KZH43 RS08665 WP 001085462.1	IEE	388	
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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 408 SMU RS09530 WP 002262392.1	D..	383	
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
consensus			

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