

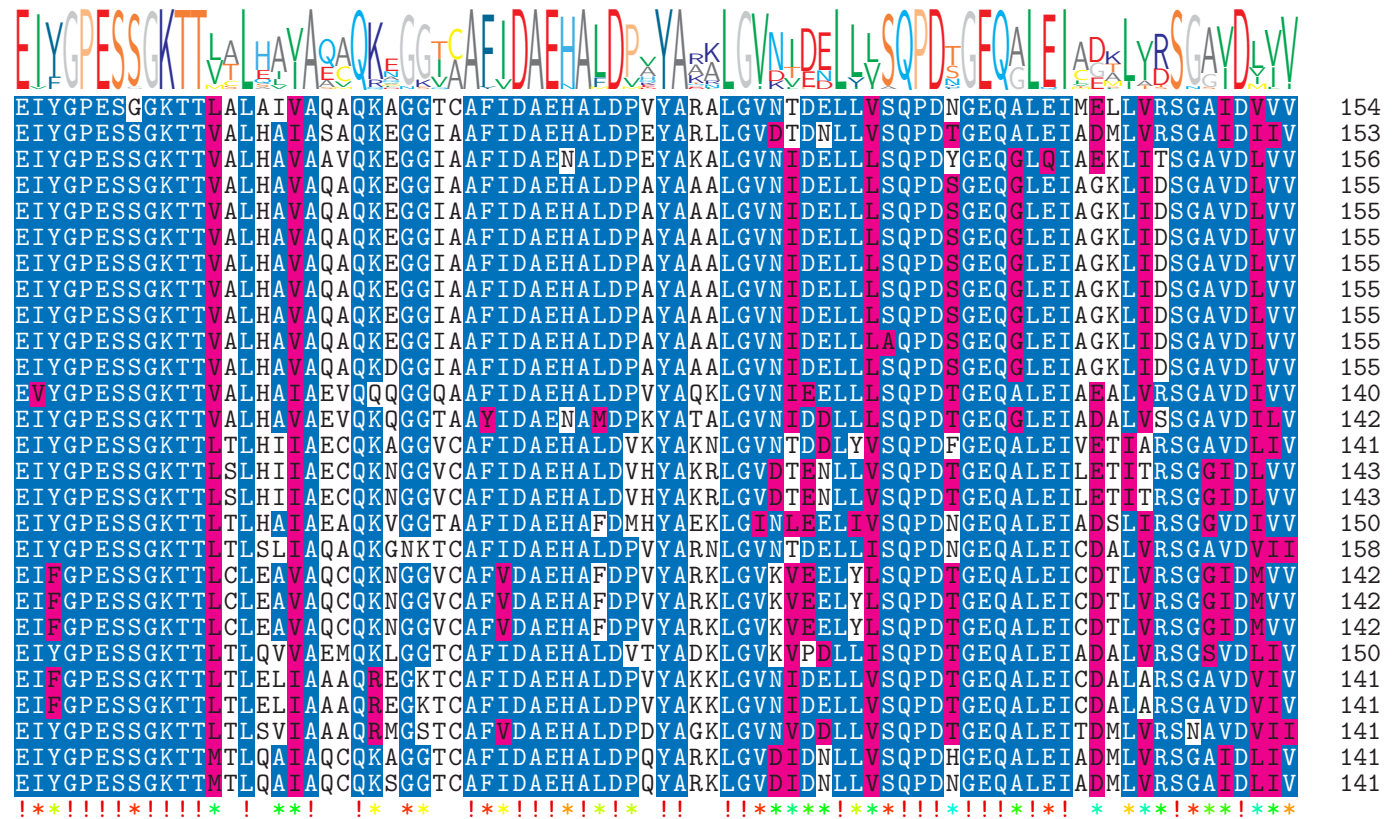
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NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD...ATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
NTDB id 172833 WM42 RS11900 WP 061923051.1	.MATK....KKSTAAAGKGDQRKALDAAMAMIEKD FGKGAVMRLGDD.ERPPIRAISSGNTAIDIALGIGGFPRGRIV	73
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEA.ANQKVSVMSSGSLALDIALGAGGYPKGRIV	76
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIT	75
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NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEEK.TDTRISTVPSGSLALDTALGIGGYPRGRIT	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIT	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQIDKVFVGKGAIVRLGDK.QVEKIDISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQIDKVFVGKGAIVRLGDK.QVEKIDISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGSLGLDLALGVGGYPKGRIV	70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.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 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIT	61
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NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 172833 WM42 RS11900 WP 061923051.1
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 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
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

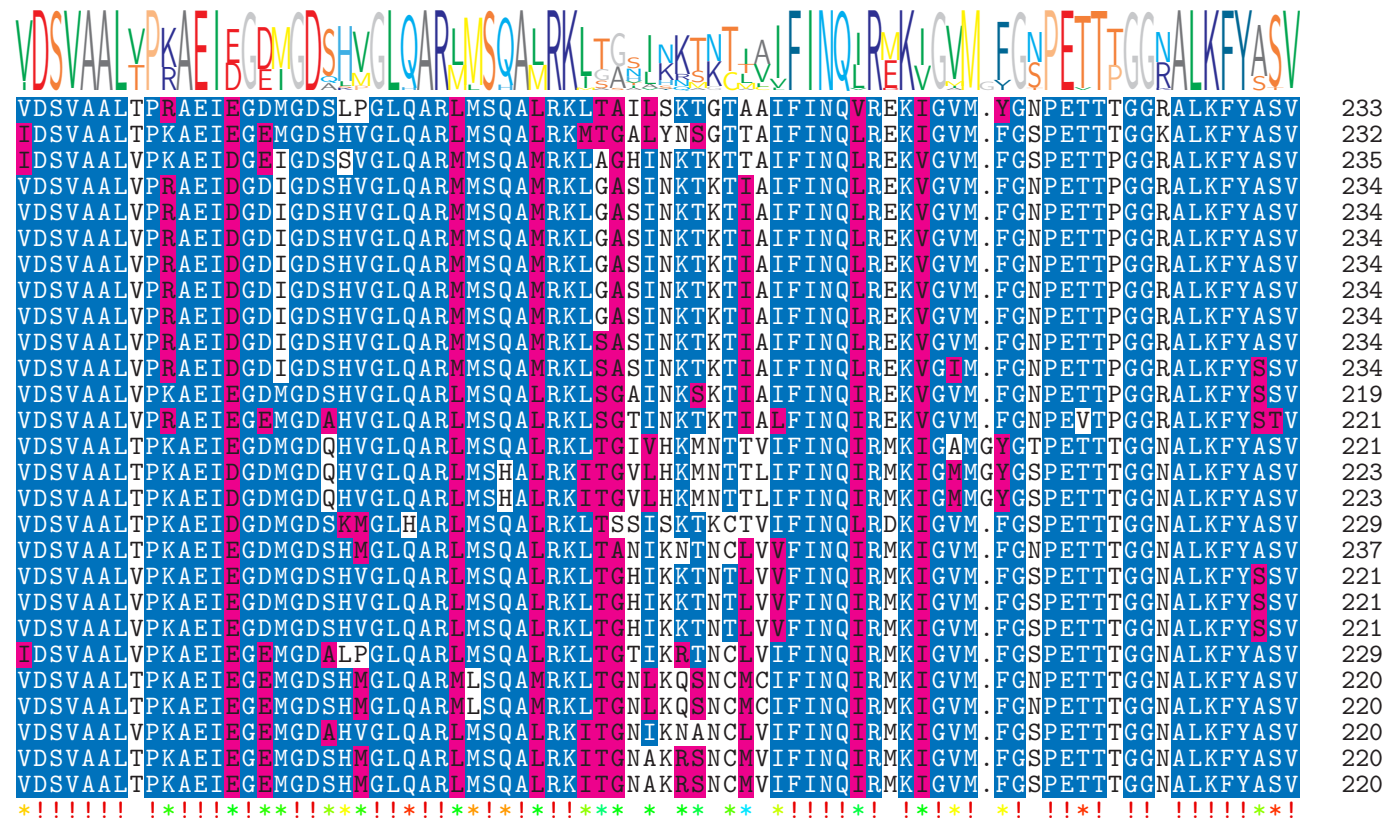
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consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTKIEEGS.GDNKTQ	IGKITK	IKVVKNKV	APPFK	VALVD	IMFG	EGISST	GELLN	IAVE	EGTI	IKKSG	AWFAY	NDE	314
NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	AVVE	IMYGEG	ISKT	TGELL	KIAS	DLDI	IKKAG	AWYSYKDE	313
NTDB id 228 SPD RS09265 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	AVVE	IMYGEG	ISKT	TGELL	KIAS	DLDI	IKKAG	AWYSYKDE	313
NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	AVVE	IMYGEG	ISKT	TGELL	KIAS	DLDI	IKKAG	AWYSYKDE	313
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGTG.DQKETN	VGKETK	IKVVKNKV	APPFK	EA	AVVE	IMYGEG	ISKT	TGELL	KIAS	DLDI	IKKAG	AWYSYKDE	313
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFK	EA	FVE	IMYGEG	ISKT	TGELL	KIAS	DLDI	IKKAG	AWYSYKDE	313
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGTG.DQKDTN	VGKETK	IKVVKNKV	APPFK	EA	FVE	IMYGEG	ISKT	TGELL	KIAS	DLDI	IKKAG	AWYSYKDE	313
NTDB id 453 Spy49 1753c ACI62003.1	RLDVRGTTQIKGTG.DQKDS	IGKETK	IKVVKNKV	APPFK	V	AEVE	IMYGEG	ISRT	TGELV	KIAS	DLDI	IKKAG	AWFSYNGE	313
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NTDB id 115 BSU 16940 NP 389576.2	RLEVRRAEQLKQGN.....DV	MGNKTK	IKVVKNKV	APPFR	TAEV	IMYGEG	ISKEGE	IIDL	GT	ELDI	VQKSG	SWSY	EEEE	294
NTDB id 625 LCA RS02525 WP 011374196.1	RLEVRRAETIKNGT.....DM	IGNRARI	KVVKNKV	APPFK	V	AEVE	IMYG	QGISRT	TGELV	MAVE	KDI	INKSG	SWSYSGSE	296
NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVAT....L.KQNEEP	IGNRVK	VVVKNKV	APPFR	QAEF	VMF	GEGLS	REGEL	IDY	GV	KLDI	VDKSG	AWFSYKDK	296
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAA....L.KQNEQH	IGNRAKA	VVVKNKV	APPFRE	AEF	IMFG	EGISKEGE	IIDY	GV	KLDI	VDKSG	AWLSYQDK		298
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NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGS....I.KKGE	EVVGN	ETRVKVI	KNKVAPPFR	QAEF	DILY	EGISWEGEL	ID	IGV	KNDI	INKSG	AWSYNGA		296
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	RLDIRRTGA....I.KEGE	EVVGN	ETRIKVVKNK	IAAPFKE	ANTQ	IMYG	QGFN	REGEL	IDL	GV	VKH	MVEKSGAWSYNGD		295
NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGA....I.KEGE	EVVGN	ETRIKVVKNK	IAAPFKE	ANTQ	IMYG	QGFN	REGEL	IDL	GV	VKH	MVEKSGAWSYNGD		295
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGA....V.KEGE	DEVVGS	ETRVVVKNKV	APPFR	QAEF	QILY	GKGIY	RNGE	IIDL	GV	QGL	VEKSGAWYAYKGS		295
NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQ....V.KEGE	DEIIG	SETKVVVKNK	MAPPFRE	AI	FQILY	GKGVN	QLGEL	VDL	AV	QQN	IVQKAGAWYSYQGN		295
NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQ....V.KEGE	DEIIG	SETKVVVKNK	MAPPFK	EA	I	FQILY	GKGTN	QLGEL	VDL	AV	QQD	IVQKAGAWYSYQGN	295
consensus	!***!*	*	**	*****!***!!*****!* *	*****!*!*****	*****	***	***	!	*****!				

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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363
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NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKNYLKEHQDVFEIDHKVRAAHGLDDSEVAETEEETTASKTAKAKKKEEKAVETEEIELELED.....	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
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NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIEIE	383
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSENAKRYLADHPQLFDEIDRKVRVKFGLLEEESEESAMAVASE.....E.....TDDLALDLNGIEIED.	378
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383
NTDB id 115 BSU 16940 NP 389576.2	RLGGGRENAKQFLKENKDIMLMIQEIQREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGRENSKAFLENPEIADEITKAIQNSMGIEGMISGSEDDE..GEE.....	343
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDESVDVEE.F.....SEEEL.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDETGE.R.....PEE.....	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDETGE.R.....PEE.....	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGT.....QDETGE.R.....PEE.....	348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAV.TLAEEVEED.....	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPNENMLIAETSSAADVEFGA.V.....PEEF.....	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKKLREMLLNPNENMLIAETSSAADVEFGA.V.....PEEF.....	354
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAYLEENPEIGQIEEQQIRAKLLVTSANTKATPVAEDLADADI.....	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTAA.HDETEEEPDLL.....ES.....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTGTNGAVQ.I.EDEEEPDLL.....LES.....	349
consensus	**!!!!***** ** ***** ***** ** *	

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NTDB id	DR	RS	WP	010888966.1	.	363
NTDB id	172833	WM42	RS11900	WP 061923051.1	.	377
NTDB id	600	KW2	RS01765	WP 011675413.1	.	387
NTDB id	269	KZH43	RS08665	WP 001085462.1	E	388
NTDB id	228	SPD	RS09265	WP 001085462.1	E	388
NTDB id	194	SPR	RS08825	WP 001085462.1	E	388
NTDB id	159	SP	RS09750	WP 001085462.1	E	388
NTDB id	499	SM12261	RS08315	WP 078228268.1	E	384
NTDB id	527	SMSK321	RS11065	WP 001085454.1	E	384
NTDB id	453	Spy49	1753c	ACI62003.1	.	378
NTDB id	408	SMU	RS09530	WP 002262392.1	.	383
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NTDB id	1334	RA0C	RS04870	WP 004918236.1	.	343
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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	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						

- ☐ non conserved
- ☒ similar
- ☒ $\geq 50\%$ conserved