

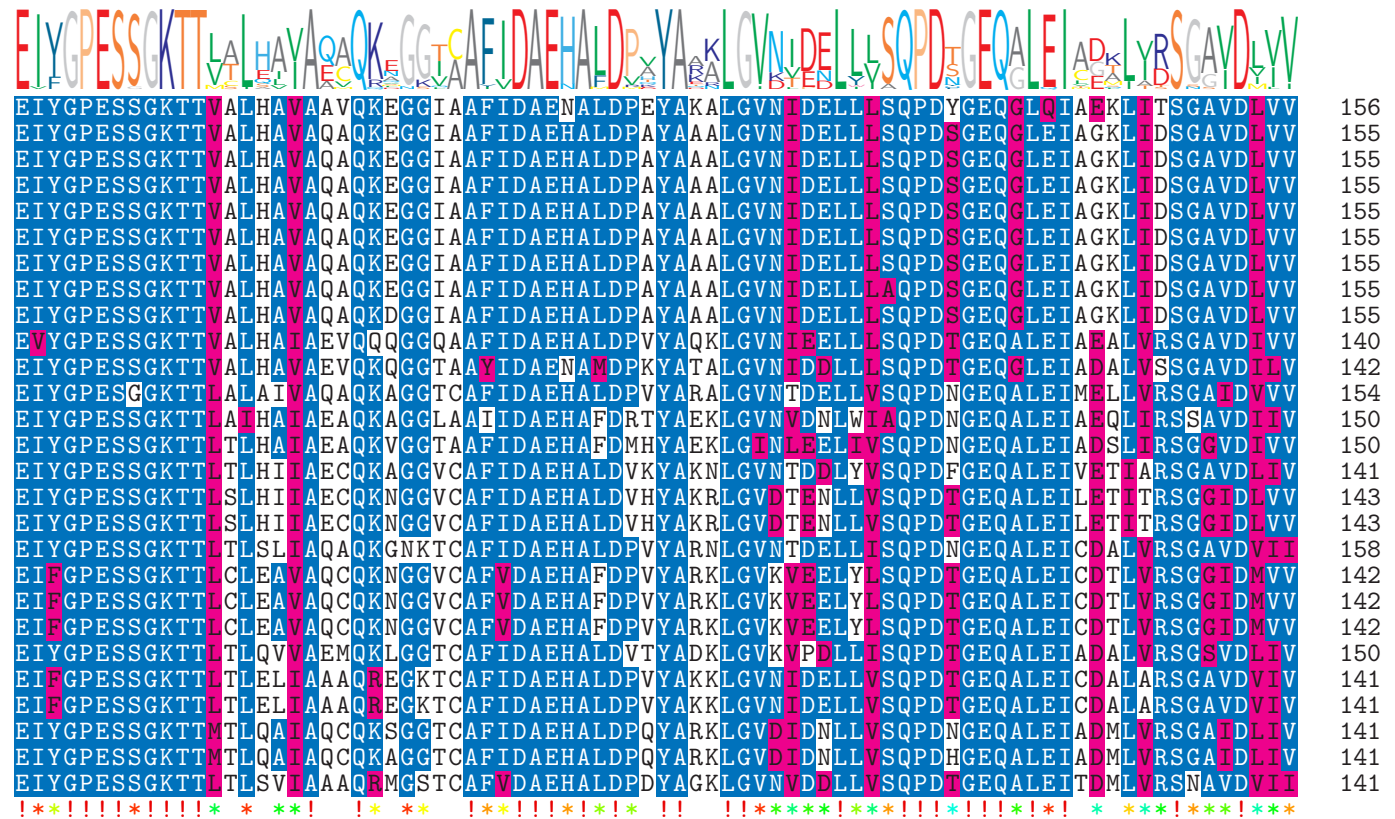
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.ANQKVS	76
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NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPRGRII	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1313 DR RS12030 WP 010888966.1	.MSK....DATKEISAPTDAKERSKATETAMSEQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
NTDB id 254161 CS374 RS00980 WP 004584116.1	MAEEKIPTVQDEKKLQALRMATEKIEKTFGKGAIMNMGANTVE.DVSVIPSGSIGLDLALGVGGYPRGRII	70
NTDB id 1334 RAO RS04870 WP 004918236.1	MAKTET.TSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSIGSLGLDLALGVGGYPRGRIV	70
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRII	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAIISLAIKQIDKVFVGKGALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRII	63
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAIISLAIKQIDKVFVGKGALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRII	63
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVKKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV	78
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NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFSGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVV	70
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRII	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRII	61
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRII	61
consensus	*** **	

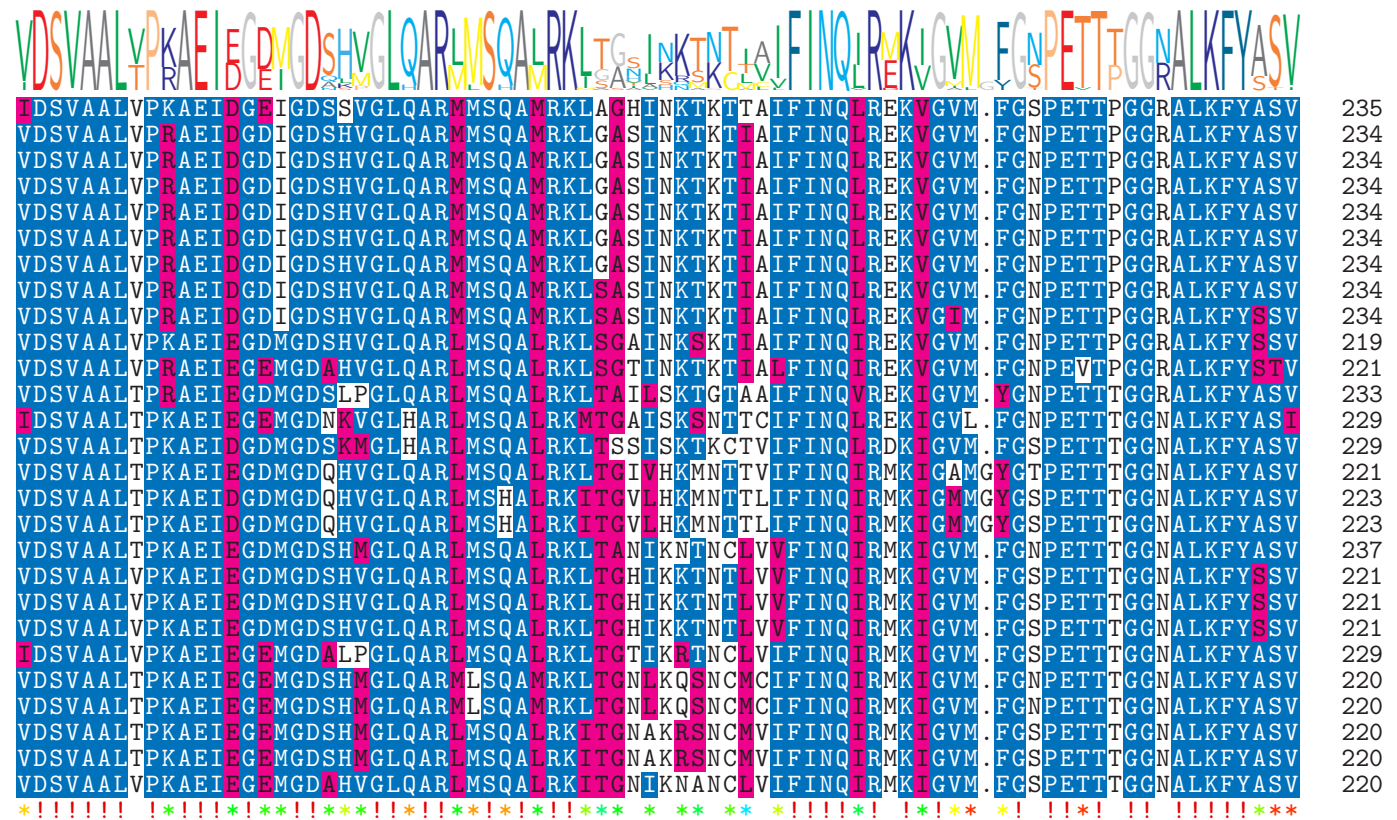
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NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB 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 254161 CS374 RS00980 WP 004584116.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
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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
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1	RLDVRGSTK	IEEGS.GDNKTQ	IGKITK	IKVVKNKVAPPF	KVALV	DIMF	GEGIS	STGEL	INIA	VEEG	TIKK	SGAWFAY	NDE	314			
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NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQ	IKGTG.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKK	AGAW	YSYKDE	313			
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQ	IKGTG.DQKETN	VGKETK	IKVVKNKVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKK	AGAW	YSYKDE	313			
NTDB id 499 SM12261 RS08315 WP 078228268.1	RLDVRGSTQ	IKGTG.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKK	AGAW	YSYKDE	313			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQ	IKGTG.DQKDTN	VGKETK	IKVVKNKVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIAS	DLDI	IKK	AGAW	YSYKDE	313			
NTDB id 453 Spy49 1753c ACI62003.1	RLDVRGTTQ	IKGTG.DQKDS	IGKETK	IKVVKNKVAPPF	KVAEV	EIMY	GEGIS	RTGEL	VKIAS	DLDI	IKK	AGAW	FSYNGE	313			
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NTDB id 1334 RAO RS04870 WP 004918236.1	RIDIRRLSD	TGKIKDKSGEV	IGNRTK	VKVVKNKVAPPF	RQSAE	FDIMY	GEGVSKV	GEILD	VATDL	DI	IKK	SGSWSY	QDT	309			
NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVAT	L.....KQN	EEPIGN	RVKVVKNKVAPPF	RQAEF	DV	MFGEL	SREG	ELIDY	GVKLDI	V	DKS	GAWSY	KDK	296		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	RIDIRRIAAL	KQN	EQHIGN	RAKAKVVKNKVAPPF	REA	AEFDIM	F	GEGIS	KEGE	IIDY	GVKLDI	V	DKS	GAWSY	QDK	298	
NTDB id 1211 C694 RS00795 WP 000963128.1	RIDIRRIASL	KQN	EQHIGN	RAKAKVVKNKVAPPF	REA	AEFDIM	F	GEGIS	KEGE	IIDY	GVKLDI	V	DKS	GAWSY	QDK	298	
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NTDB id 1124 NGFG RS03960 WP 003688695.1	RLDIRRTGSI	KKG	EEVLGN	ETRVKVIKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIG	VKNDI	INK	SGAWSY	NGA	296			
NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGSI	KKG	EEVLGN	ETRVKVIKNKVAPPF	RQAEF	DILY	GEGIS	WEGEL	IDIG	VKNDI	INK	SGAWSY	NGA	296			
NTDB id 1427 RS RS02760 WP 011000510.1	RLDIRRIGSI	KKG	DEVVGN	ETKVVKNKVAPPF	REAIF	DILY	GAGVS	REGE	IIDL	GV	EAKV	VEK	SGAWSY	NGE	304		
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGAI	KEG	EEVVG	NETRIKVVKNKIA	APFKEANTQ	IMY	GQGFN	REGEL	IDL	GVKHK	MVEK	SGAWSY	NGD	295			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	RLDIRRIGQV	KEG	DEIVG	SETKVVKNKMAPPF	KEAIFQ	ILY	GKGTN	QLGEL	VDLAV	QQDIV	QK	AGAW	YSYQGN	295			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	RLDIRRIGQV	KEG	DEIVG	SETKVVKNKMAPPF	KEAIFQ	ILY	GKGTN	QLGEL	VDLAV	QQDIV	QK	AGAW	YSYQGN	295			
NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGAV	KEG	DEVVGS	ETRVKVVKNKVAPPF	RQAEFQ	ILY	GKGIYR	NGE	IIDL	GV	QQGL	VEK	SGAW	AYKGS	295		
consensus	!***!* *	*	*	**	*****!***!!*!!*!!* *	*****!*!*** ***** *	*** !	!*****!									

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NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA	..VNEEVPLDLGDE	LEIEIE	387
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTENK	KDE....PKKEEA	..VNEEVPLDLGDE	LEIEIE	387
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NTDB id 453 Spy49 1753c ACI62003.1	KIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEESAMAV	ASE.....E.....	TDDLALDLDN	GIEIED	378
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEEKQSS	KEK.....ETDEK	..ADKNLVLELDD	TIELED	383
NTDB id 115 BSU 16940 NP 389576.2	RLGQGR	ENAKQFLKENKDI	MLMIQEIQIREHY	GLDNNGVVQQAE	ETQEEL.EFE.E.....			348
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGR	ENAKNYLADHEDV	EVRLKVRAAYG	ISDVPPEEDLPT	TEDE.QI.NILPDD	ST.....EE.....		355
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NTDB id 1334 RAO RS04870 WP 004918236.1	KLGGGR	DTVKELIKDNPE	LAELAKIREKLQ	AK.....				343
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGR	ENSKAFLKENPE	IADAITKAIQNS	MGIEGMIS.....	GSEDDE..GEE.....			343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGGR	ENAKALLKEDKA	LADAITLKIKESI	GSNEEIM.....	PLPDEP..LEEME.....			347
NTDB id 1211 C694 RS00795 WP 000963128.1	KLGGGR	ENAKALLKEDKA	LADAITLKIKESI	GSNEEIM.....	PLPDEP..LEEME.....			347
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGG	KNNAVKWLKENPE	IADKLEQEI	RNTLASNPNSV.....	LKATASDSNDES	D..VEEFSEEEL.....		372
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NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGG	KDNVRVWLKENPE	ISDEIDAKIRAL	NGVEMHIT.....	EGTQDETD.....	GERPEE.....		348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGG	KDNVRVWLKENPE	ISDEIDAKIRAL	NGVEMHIT.....	EGTQDETD.....	GERPEE.....		348
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGR	DNCREFLRENAEL	AREIENKVREHL	GVTPMGA....V	TLAEEVEED.....			352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGG	KANACKYLLKENPE	IAKTLDDKKLRE	MLLNPENMQ....	LIAETSSAADDV	E..FGAVPEEF.....		354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGG	KANACKYLLKENPE	IAKTLDDKKLRE	MLLNPENMQ....	LIAETSSAADDV	E..FGAVPEEF.....		354
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGG	KNNVIRYFEENN	QIAEEIERNIRE	QLLTTGTNG....	AVQ.I.EDEEE	PD...LLES.....		349
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGG	KNNVIRYLEENP	QISTEIEAVIRE	QLLTKASDQ....	TAA.HDETEE	EPD...LLES.....		349
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGG	KANAACKYLEENPE	IGQIEEQIRAK	LLVTSANT....	KATPVAEDLAD	AD....I.....		347
consensus	**! ! *	*****	**	*****	*****	**	**	

logo

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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
NTDB id 115 BSU 16940 NP 389576.2	.	348
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
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NTDB id 254161 CS374 RS00980 WP 004584116.1	.	340
NTDB id 1334 RAOC RS04870 WP 004918236.1	.	343
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	.	347
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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
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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

 non conserved
 similar
 ≥ 50% conserved