

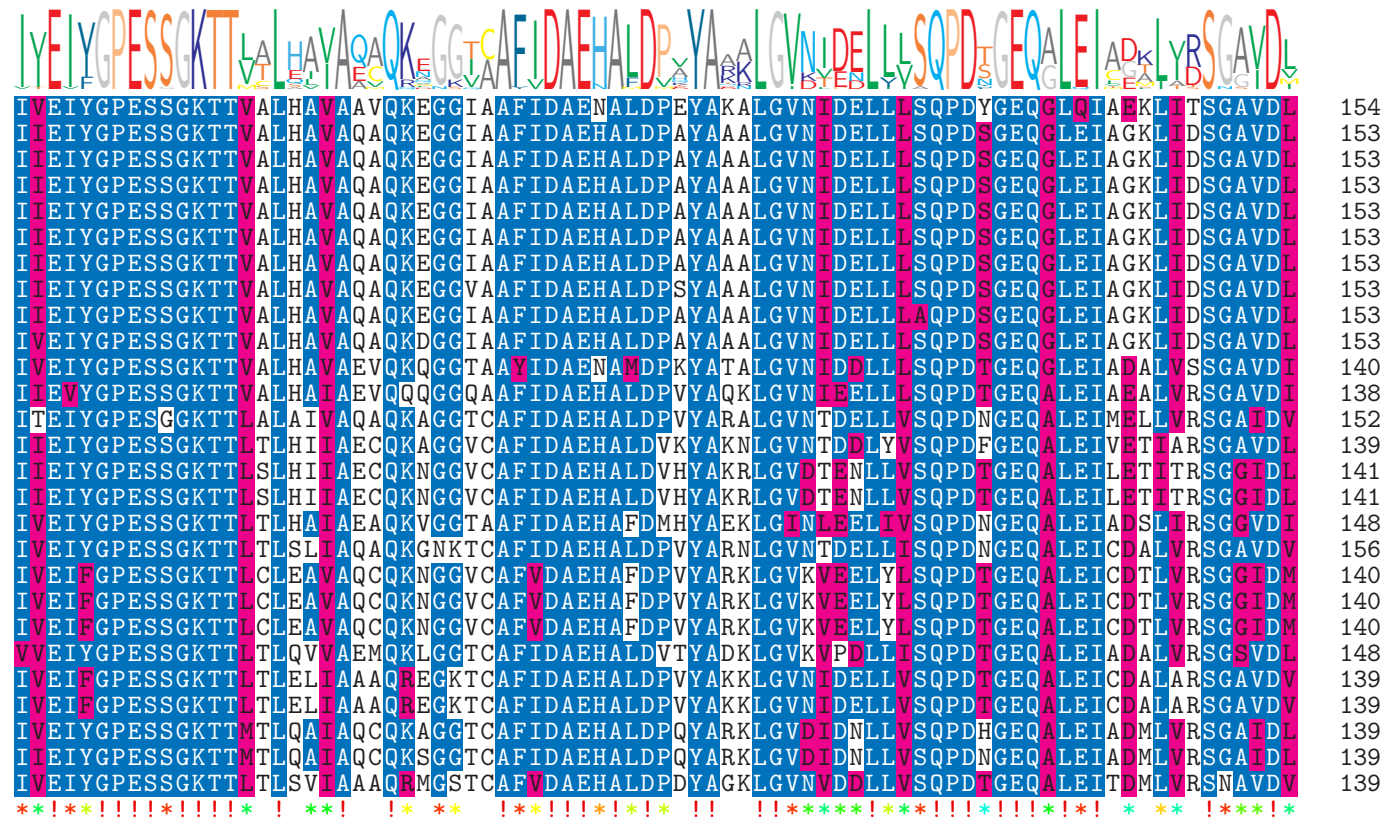
logo

NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK.....KTNFDDITKKYGA	ERDKALADALAL	IEKD	FGKGS	SLMRLGEA	A	ANQKVS	VSSGSLALD	I	ALGAGGY	PKGR	74		
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGS	SIMRLGER	A	AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGS	SIMRLGER	A	AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGS	SIMRLGER	A	AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK.....PKKLEEISKKFGA	EREKALNDALKL	IEKD	FGKGS	SIMRLGER	A	AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGS	SIMRLGER	A	AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK.....PKKLDEISKKFGA	EREKALNDALKL	IEKD	FGKGS	SIMRLGER	A	AEQKVQV	MSSGSLALD	I	ALGSGGY	PKGR	73		
NTDB id 293186 DK181 RS10370 WP 002960557.1	.MAKK.....TKKTDEITKKFG	DERKKALDDALKT	IEKD	FGKGA	IMKLGER	A	ADQKVQV	MSSGSLALD	I	ALGVGGY	PKGR	73		
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NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR.....IKKTEEITKKFG	DERKKALDDALKN	IEKD	FGKGA	VMRLGER	A	AEQKVQV	MSSGSLALD	I	ALGAGGY	PKGR	73		
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDA	ALKK	IEKN	FGKGS	SIMRMGEK	V	VDTQVST	VSSGSLALDE	A	ALGVGGY	PRGR	60		
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDM	ALKQ	IEKQ	FGKGS	SIMKLGEK	T	TDTRI	ISTVPSGSLALD	I	ALGIGGY	PRGR	58		
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKAT	IETAMSQ	IEKA	FGKGS	SIMKLGA	E	SKLDVQVV	STGSLSLD	I	ALGVGGI	PRGR	72	
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDA	ALKS	LDKT	FGKGT	ILRLGDK	E	EVEQIDS	IGTGSVGLD	I	ALGIGGV	PKGR	59		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLA	IKQ	IDKVF	FGKGA	LVRLGDK	Q	VEKIDS	ISTGSLGLD	I	ALGIGGV	PKGR	61		
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLA	IKQ	IDKVF	FGKGA	LVRLGDK	Q	VEKIDS	ISTGSLGLD	I	ALGIGGV	PKGR	61		
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKT..ETTS	PNDDKKK	KALAAVLEK	LDKT	YGKGTVMKLG	D	GTVDHNI	IEVIP	PSGSLGLD	I	ALGVGGY	PKGR	68	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEP	EQQKQ	KALEAALAQ	IEKQ	FGKGS	SIMKLGT	Q	EQLDIES	VSTGSLGLD	I	ALGIGGL	PMGR	76	
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQ	IEKS	FGKGA	AIMKMDGS	Q	QEENLEV	ISTGSLGLD	I	ALGVGGL	PRGR		60		
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQ	IEKS	FGKGA	AIMKMDGS	Q	QEENLEV	ISTGSLGLD	I	ALGVGGL	PRGR		60		
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQ	IEKS	FGKGA	AIMKMDGS	Q	QEENLEV	ISTGSLGLD	I	ALGVGGL	PRGR		60		
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSA	EKQK	KALAAALAQ	IEKQ	FGKGS	SIMKMG	D	A	EVEPVQVV	STGSLGLD	I	ALGVGGL	PRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQ	IEKQ	FGKGS	SIMRLG	DN	RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR		59		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQ	IEKQ	FGKGS	SIMRLG	DN	RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR		59		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQ	IEKQ	FGKNTVM	RLG	DN	TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR		59		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQ	IEKQ	FGKNTVM	RLG	DN	TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR		59		
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consensus	*** **	*	***	***	***	*	***	***	***	***	***			

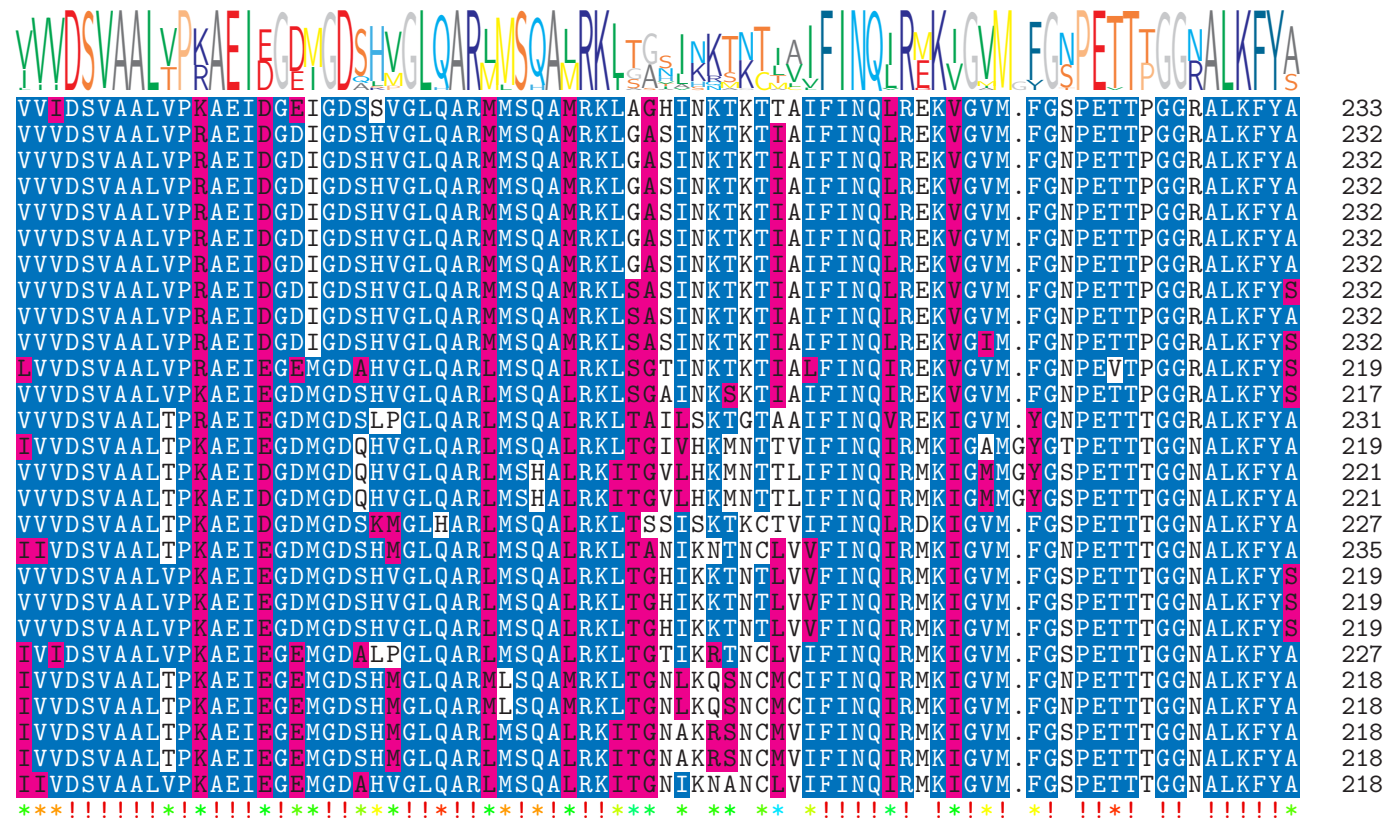
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NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 293186 DK181 RS10370 WP 002960557.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RA0C 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
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consensus

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NTDB id 269 KZH43 RS08665 WP 001085462.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
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consensus



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NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDLIIKKAGAWYSYK	311		
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETNVGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDLIIKKAGAWYSYK	311		
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRAETIKNGT.....DMIGNRARIKVVKNKVAPPFKVAEVDIMYGGGISRTGELVDMAVEKDIINKSGSWYSYG	294		
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....DVMGNKTKIKVVKNKVAPPFRTAEVDIMYEGEGISKEGEIIDLGTELDIVQKSGSWYSYE	292		
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NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEVIIGNRTKVVKNKVAPPFKSAEFDIMYEGEVSKVGEILDVATDLDIIQKSGSWFSYQ	307		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGDEIIGSETKVVKNKVAPPFREVQFDIMYEGEGISRMNELLILAEANGFIKKSGAWFSYD	310		
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NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRTGS....I.KKGEVVLGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDIINKSGAWYSYN	294		
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGEVVLGNETKVVKNKVAPPFREAIFFDILYGAGVSREGEIIDLGVEAKVVEKSGAWYSYN	302		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA....I.KEGEEVVGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVKNKMAPPFREAIFFQILYGKGVNQLGELVDLAVQQNIVQKAGAWYSYQ	293		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGDEIIGSETKVVKNKMAPPFKAEIIFQILYGKGTNQLGELVDLAVQQDIVQKAGAWYSYQ	293		
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGDEVVGSETRVKVVKNKVAPPFRQAEFQILYGKGIYRNGEIIDLGVQQGLVEKSGAWAYK	293		
consensus	*!!**!* *	* ** *****!!*!!*!!*!*	* *****!!*!!*!!* ***** *	*** ! !*****!

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	FDEIDHKVRAAHGL	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETE	EIELELED		387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	....	PKK	EEAVNEEVPLDLGDELEIE	385	
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	....	PKK	EEAVNEEVPLDLGDELEIE	385	
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	....	PKK	EEAVNEEVPLDLGDELEIE	385	
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE		PKK	EEAVNEEVPLDLGDELEIE	385	
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NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAE		SKKDE		AAQ	VDSVNEEVTLDLGDELEIE	381
NTDB id 293186 DK181 RS10370 WP 002960557.1	GEKIGQGS	ENAKKYLADNPEV	FDAIDKKVRIKYGL	IEDDQAVEAQPVQA	....	EAK	EEPE	ELSLDLE	SIEIE	379
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQL	FDEIDRKVRVKFGL	LEESEESAMAVAS	....	EE	....	TDDLALDL	DNGIEIE	377
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEEDNTEEKQSSKE	....	KET	DEKADKNL	VLELDDTIELE		382
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGS	ENAKNYLADHED	VEDEVRLKVR	AAYGISDVPEED	LPTTEDE	Q	....	INILPDD	STEE	355
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGS	ENAKQFLKENKD	IMLMIQEQIREHYGL	DNNGVVQQQAET	QEE	....	....	LEFE	E	348
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGS	KEKTIAYIAERP	EMEQUEIRDRVMAA	IRAGNAGEAPALAP	AAPAAPEAA	....	EA	....	....	363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGS	ENAKFLKENPEI	ADEITKAIQNSMG	IEGMI	....	SGSEDD	EG	EE	....	343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGS	ENAKALLKEDKAL	ADEITLKI	ESIGSNEEI	....	MPLPDE	PL	EE	ME	347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGS	ENAKALLKEDKAL	ADEITLKI	ESIGSNEEI	....	MPLPDE	PL	EE	ME	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGR	DTVKELIKDNPEL	AEELEAKIREKLQAK							343
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NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGS	KDNVRVWLKENPEI	SDIDAIRALNGVEMHI		TEGTQDET	DG		ER	PEE	348
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NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAEL	AREIENKVREHLGV	TPMG		AVTLA	EEVE	ED		352
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGS	KANACKYLLKENPEI	AKTLDKKLREMLLN	PENM		QLIAETSSAA		DD	VEFGAVPEEF	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGS	KNNVIRYFEEN	NQIAEIEIERN	IREQLLT	TKASD	....	QTAA	HDETE	....	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGS	KNNVIRYFEEN	NQIAEIEIERN	IREQLLT	TTGTN	....	GAVQ	I	EDE	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGS	KANAACKYLLKENPEI	IGQIEIQQIRAKLL	VTSAN		TKATPVAEDL		AD	ADI	347
consensus	***!!!	*****	**	*****	*****	**	**	**	*	

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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	
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NTDB id 408 SMU RS09530 WP 002262392.1	D..	383	
NTDB id 625 LCA RS02525 WP 011374196.1	...	355	
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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			

-  non conserved
-  similar
-  ≥ 50% conserved