

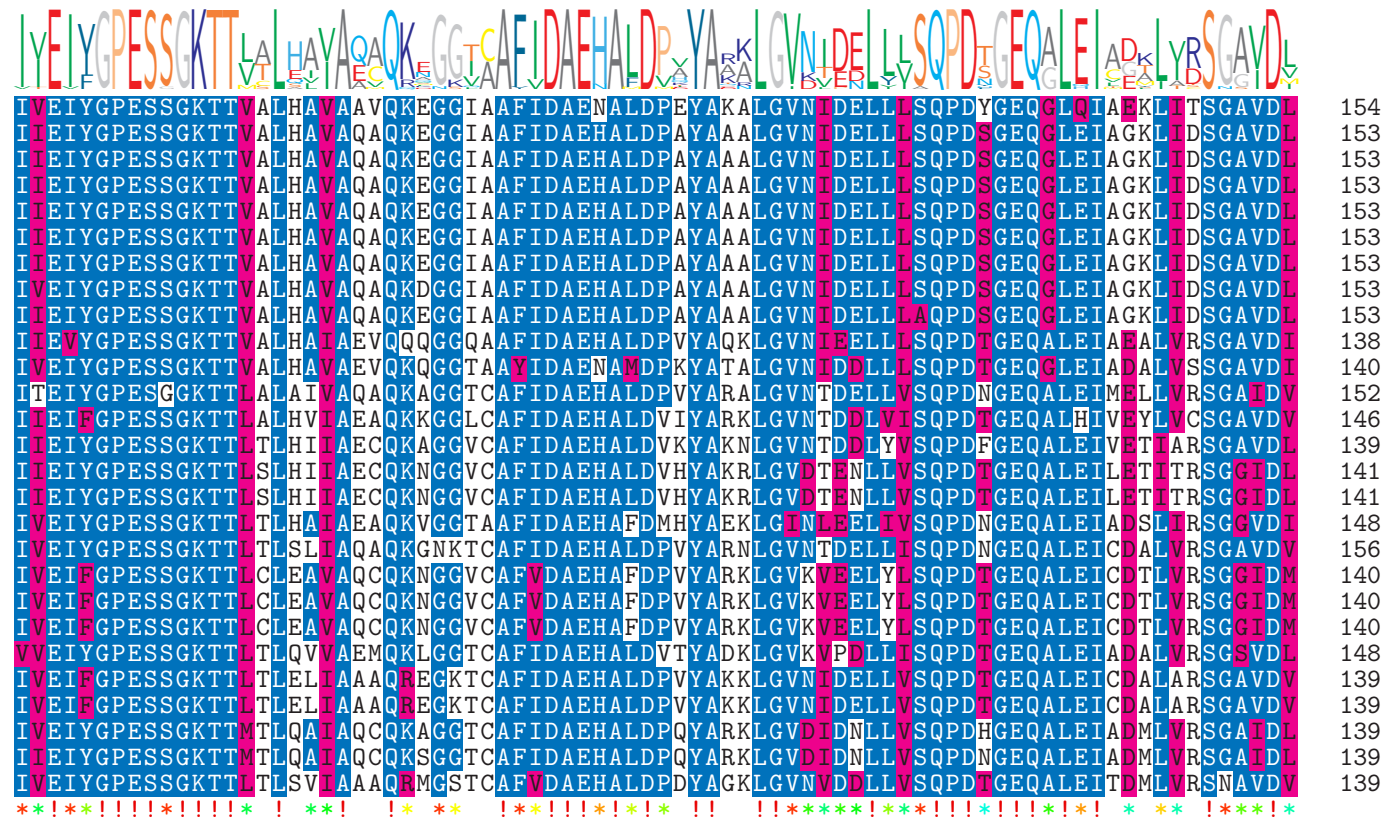
logo

NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK....KTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALD	I	ALGAGGY	PKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK....PKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK....PKKLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	I	ALGSGGY	PKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR....IKKTEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	I	ALGAGGY	PKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK....LKKNEEITKKFGD	ERRKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	I	ALGAGGY	PKGR	73
NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQIEKQ	FGKGSIMKLGEK	.TDTRIST	VPSGSLALD	T	ALGIGGY	PRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKKIEKN	FSGKGSIMRMGEK	.VDTQVST	VSSGSLALD	E	ALGVGGY	PRGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERSKATETAM	SQIEKAFGKGSIMKLGA	E.SKLDVQV	VSTGSLSLD	L	ALGVGGI	PRGR	72
NTDB id 304151 DEJ70 RS02205 WP 006012936.1	MA..HNPEERN	NDKQKALDNAISQIEK	AFGKGAIMKLKQN	.PVEKIDT	ISTGSTALD	S	ALGVGGL	PKGR	66
NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKSLSLDAALKSLDK	TFGKGTILRLGDK	.EVEQIDS	IGTGSVGLD	L	ALGIGGV	PKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKATISLAIKQID	KVFGKGALVRLGDK	.QVEKIDA	ISTGSLGLD	L	ALGIGGV	PKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDE	DKQKATISLAIKQID	KVFGKGALVRLGDK	.QVEKIDS	ISTGSLGLD	L	ALGIGGV	PKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAK..TETTSPND	DKKKALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	EVIPSGSLGLD	L	ALGVGGY	PKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNT..VVKQVEPE	QKKQALEAALAQIEKQ	FGKGSIMKLQGT	.EQLDIES	VSTGSLGLD	L	ALGIGGL	PMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FSGKGAIMKMDGSQ	QEEENLEV	ISTGSLGLD	L	ALGVGGL	PRGR	60
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NTDB id 1123 OK783 RS03845 WP 003688695.1	MSD	DKSKALAAALAQIEKS	FSGKGAIMKMDGSQ	QEEENLEV	ISTGSLGLD	L	ALGVGGL	PRGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSA	EKQKALAAALAQIEKQ	FGKGSIMKMGDA	.EVEPVQV	VSTGSLGLD	V	ALGVGGL	PRGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KQKALAAALGQIEKQ	FGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	I	ALGAGGL	PMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KSKALQAALSQIEKQ	FGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	I	ALGIGGL	PKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KKRALAAALGQIEKQ	FGKGAVMRMGDH	.DRQAIPS	ISTGSLGLD	I	ALGIGGL	PKGR	59
consensus		***	***	*	***!	***!	*****	*	***!***!***!***!***!***!

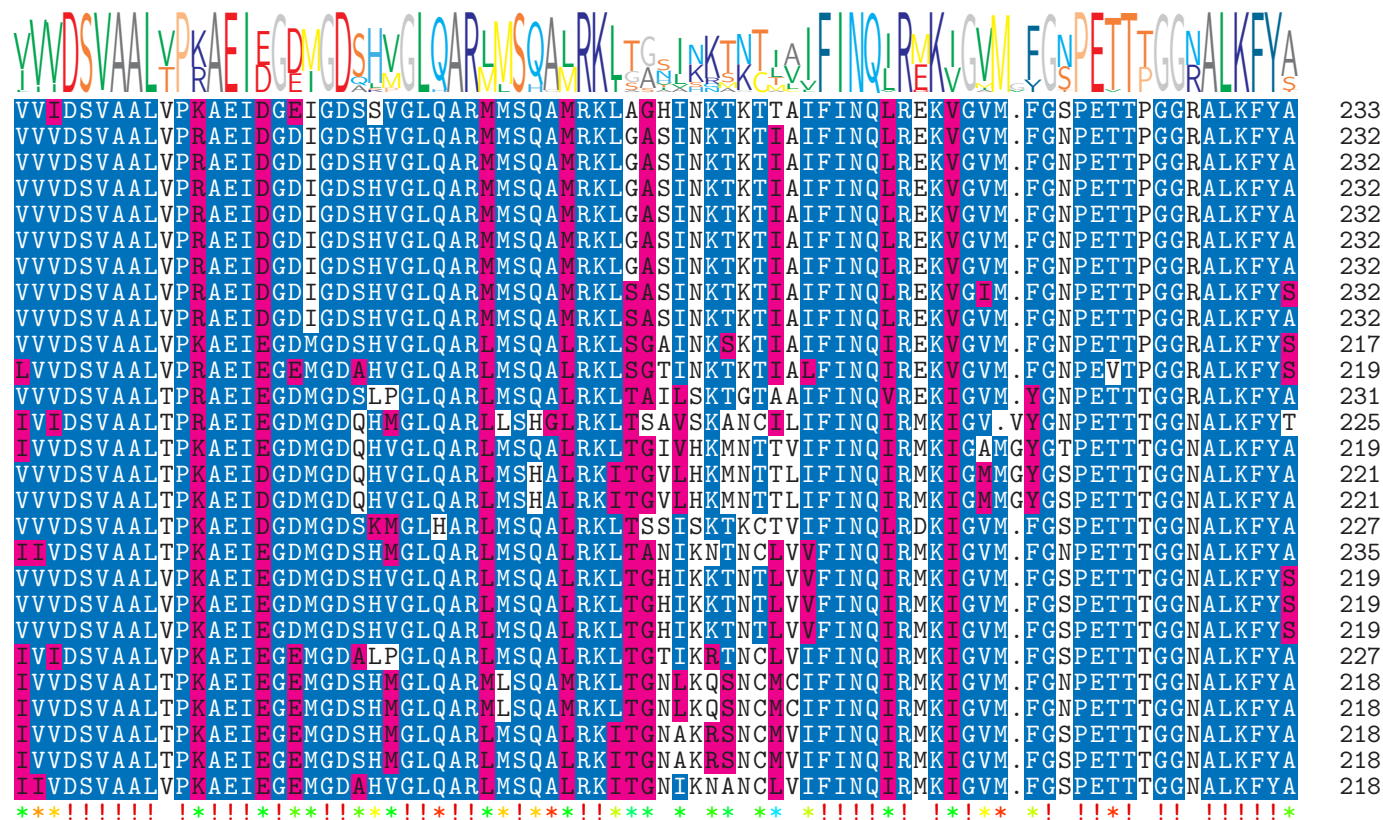
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NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
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 304151 DEJ70 RS02205 WP 006012936.1
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
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
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGK	ITK	IKVVKNKVAPPF	KVALVD	IMF	GEGISST	GELIN	IAVEEG	IT	KKSGAW	FAYN	312									
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NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRA	ETIKNGT	DM	IGN	RARI	IKVVKNKVAPPF	KVAEVD	IMY	GQGISRT	GELVD	MAVEK	DI	INKSGS	WYSYG	294									
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NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRI	AS....	L.KQNE	EQH	IGN	RAK	AKVVKNKVAPPF	FREAE	FD	IMF	GEGISKEGE	IT	IDY	GVKL	DI	VDKSGAWLSYQ	296							
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRS	LSDTG	KIKDKS	GEV	IGN	RTK	VVVKNKVAPPF	KSAE	FD	IMY	GEGV	SKVGE	ILD	VAT	D	L	DI	IKKSGSWFSYQ	307					
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NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRT	GS....	I.KKG	EEV	LG	NETRV	KVKIK	NKVAPPF	RQAE	FD	DILY	GEGISW	EGEL	ID	IGV	KNDI	INKSGAWSYN	294						
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRT	GS....	I.KKG	EEV	LG	NETRV	KVKIK	NKVAPPF	RQAE	FD	DILY	GEGISW	EGEL	ID	IGV	KNDI	INKSGAWSYN	294						
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRRT	GS....	I.KKG	EEV	LG	NETRV	KVKIK	NKVAPPF	RQAE	FD	DILY	GEGISW	EGEL	ID	IGV	KNDI	INKSGAWSYN	294						
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRI	GS....	I.KKG	DEV	VG	NETK	VVVKNKVAPPF	REAI	FD	DILY	GAGV	SREGE	IT	DLG	VEAK	VVEK	SGAWSYN	302						
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRRT	TGA....	I.KEG	EEV	VG	NETRI	KVVKNK	IAAPF	KEANTQ	IMY	GQGF	NREGEL	ID	LGV	V	HKHK	MVEK	SGAWSYN	293					
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRT	TGA....	I.KEG	EEV	VG	NETRI	KVVKNK	IAAPF	KEANTQ	IMY	GQGF	NREGEL	ID	LGV	V	HKHK	MVEK	SGAWSYN	293					
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRRI	GQ....	V.KEG	DEI	IG	SETK	VVVKNK	MAPPF	FREAI	FQ	ILY	GKGV	NQLGEL	VD	LAV	QQN	IV	QKAGAWSYQ	293					
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRI	GQ....	V.KEG	DEI	VG	SETK	VVVKNK	MAPPF	KEAI	FQ	ILY	GKGT	NQLGEL	VD	LAV	QQD	IV	QKAGAWSYQ	293					
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRT	TGA....	V.KEG	DEV	VGS	ETRV	KVVKNKVAPPF	RQAE	FQ	ILY	GKGI	YRNGE	IT	DLG	V	QQGL	LVEK	SGAWAYK	293					
consensus	**!* **!* *																			* ** * ** * ! * * ! ! ! * ! ! ! * * * * * ! * * * * * * * * * * ! * * * * ! ! * * * * !				

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHGL	LDDSEVAE		TEEETTAS	TKAKAKKEEK	AVETEE	IELELED	387	
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSE	....	QDTENKK	DE....	PKKEEA	..VNEEVPLDLGD	380	
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSE	....	QDTENKK	DE....	PKKEEA	..VNEEVPLDLGD	380	
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	LIDGEEVSE		QDTENKK	DE....	PKKEEA	..VNEEVPLDLGD	380	
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NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	LIDGEEIAE		S....	KKDE		AAQVDS..VNEEVTLDLGD	376	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFAE	IDHQVRVQFGL	LIDGEEAAE	....	S....	KKDE	....	VAQVDS..VNEEVTLDLGD	376	
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEEDNTEE	....	KQSSKEK	.....	ETDEK	..ADKNLVLELDD	377	
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEEEES	....	AMAVASE	.....	E.....	TDDLALDLDN	372	
NTDB id 115 BSU 16940 NP 389576.2	EERLGGQREN	AKQFLKENKDIM	LMIQEQIREHYGL	DNNGVVQQ	....	QAEETQEEL	EFEE	E.....	.....	348	
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGS	ENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPPEEDL	....	PTTEDE	QI.NILPDDST	....	EE.....	355	
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGS	KEKTIA	YIAERP	MEQEIRDRVMAA	IRAGNAGEAPALAPAPAAPEAAEA					363	
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NTDB id 1245 Cj1673c YP 002345041.1	DKKL	GQGR	ENSKAFL	KENPEIADE	ITKAIQNSMG	IEGMIS		GSEDDEGEE		343	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKL	GQGR	ENAKALLKED	KALADEITLK	IKESIGS	NNEEIM	....	PLPDEPLEEME	.....	347	
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKL	GQGR	ENAKALLKED	KALADEITLK	IKESIGS	NNEEIM	....	PLPDEPLEEME	.....	347	
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKL	GQGR	DTV	KELIKDNPE	LAELEAK	IREKLQAK	.....	.....	.....	343	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGS	KNNNAVKWL	KENPEIADKLE	QEIRNTLASNP	NSV....	LKATASDSND	ES	DVEE	FSEEEL	372	
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGS	KDNVRVWL	KENPEISDE	IDAKIRALNG	VEMHIT	....	EGTQDET	DGER	PEE	348	
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGS	KDNVRVWL	KENPEISDE	IDAKIRALNG	VEMHIT	....	EGTQDET	DGER	PEE	348	
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGS	KDNVRVWL	KENPEISDE	IDAKIRALNG	VEMHIT	....	EGTQDET	DGER	PEE	348	
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFL	RENAELARE	EIENKVREHLG	VTPMGA	....	VTLA	EEVEED	.....	352	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GD	KIGQGS	KANACKY	LKENPEIAKTLD	KKLREMLLN	PENMQ	....	LIAETSSAADDV	EFGA.....VPEEF	354	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GD	KIGQGS	KANACKY	LKENPEIAKTLD	KKLREMLLN	PENMQ	....	LIAETSSAADDV	EFGA.....VPEEF	354	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGS	KNNVIRY	LEENPQISTE	IEAVIREQLL	TKASDQ	....	TAA.HDETEEP	DLL	ES	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGS	KNNVIRY	FEENNQIAE	EIERNIREQLL	TTGTNG	....	AVQ.I.EDEEP	DLL	LES	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	GS	KIGQGS	KANA	AKYLEENPEIG	QIEEQ	IRAKLL	VTSANT		KATPVAEDLADA	DI.....	347
consensus		***!!!*****	**	*****	*****	**	**		*		

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NTDB id 600 KW2 RS01765 WP 011675413.1			387
NTDB id 269 KZH43 RS08665 WP 001085462.1	ELEIEIEE		388
NTDB id 228 SPD RS09265 WP 001085462.1	ELEIEIEE		388
NTDB id 194 SPR RS08825 WP 001085462.1	ELEIEIEE		388
NTDB id 159 SP RS09750 WP 001085462.1	ELEIEIEE		388
NTDB id 499 SM12261 RS08315 WP 078228268.1	ELEIEIEE		384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	ELEIEIEE		384
NTDB id 408 SMU RS09530 WP 002262392.1	TIELED..		383
NTDB id 453 Spy49 1753c ACI62003.1	GIEIED..		378
NTDB id 115 BSU 16940 NP 389576.2	.....		348
NTDB id 625 LCA RS02525 WP 011374196.1	.....		355
NTDB id 1313 DR RS12030 WP 010888966.1	.....		363
NTDB id 304151 DEJ70 RS02205 WP 006012936.1	.....		355
NTDB id 1245 Cj1673c YP 002345041.1			343
NTDB id 1214 NCTC11637 00359 SQJ03206.1			347
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NTDB id 1334 RAOC RS04870 WP 004918236.1			343
NTDB id 1389 A4U84 RS07560 WP 021112712.1			372
NTDB id 1130 NGFG RS03960 WP 003688695.1			348
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NTDB id 1165 A1552VC RS01565 WP 000344154.1			354
NTDB id 1142 GTF74 RS11550 WP 000344154.1			354
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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