

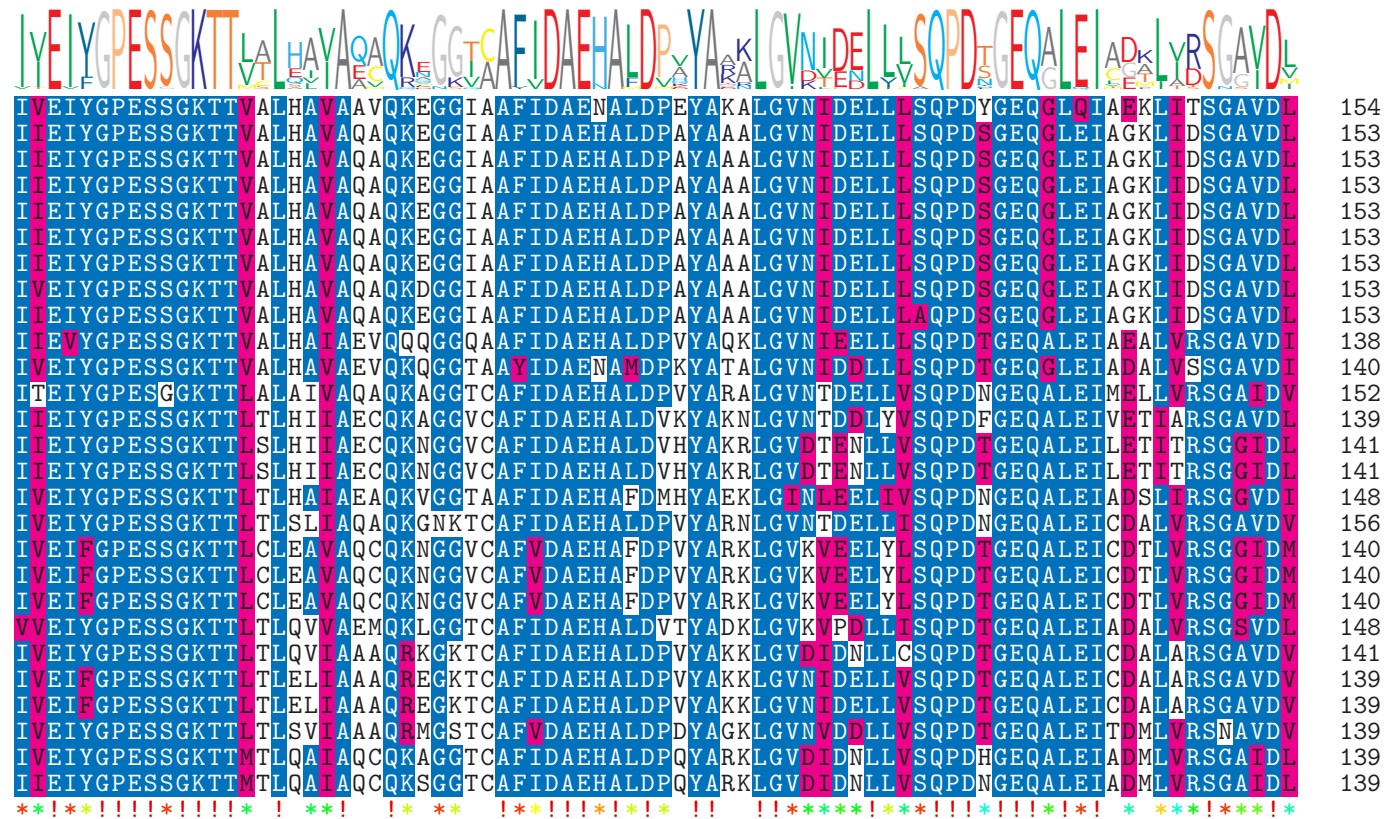
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKKKT.....NFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALD	IALGAGGY	PKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	IALGSGGY	PKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	IALGSGGY	PKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	IALGSGGY	PKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAKKPK.....KLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	IALGSGGY	PKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKKPK.....KLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	IALGSGGY	PKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKKPK.....KLDEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQVM	SSGSLALD	IALGSGGY	PKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKRIK.....KTEEITKKFG	DERKKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	IALGAGGY	PKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAKKLK.....KNEEITKKFG	DERKKALDDALKNIEKD	FGKGAVMRLGER	.AEQKVQVM	SSGSLALD	IALGAGGY	PKGR	73
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQ	IEKQFGKGSIMKLGEK	.TDTRIST	VP	SGSLALD	TALGIGGY	PRGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKK	IEKNFGKGSIMRMGEK	.VDTQVST	VSSGSLAL	DEALGVGGY	PRGR		60
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAK	ERSKATETAM	SQIEKAFGKGSIMKLGAE	.SKLDVQV	VSTGSLSLD	ALGVGGI	PRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDDNKRKSLDAALKS	LDKTFGKGTILRLGDK	.EVEQIDS	IGTGSVGLD	ALGIGGV	PKGR		59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAI	SLAIKQIDKVF	FGKGALVRLGDK	.QVEKIDA	ISTGSLGLD	ALGIGGV	PKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAI	SLAIKQIDKVF	FGKGALVRLGDK	.QVEKIDS	ISTGSLGLD	ALGIGGV	PKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTE..TTSPND	DKKKALAAVLEKLDKT	YGKGTVMKLG	DGTVDHNI	EVIPSGSLGLD	ALGVGGY	PKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVV..KQVEP	EQKKQALEAALA	QIEKQFGKGSIMKLGQT	.EQLDIES	VSTGSLGLD	ALGIGGL	PMGR	76
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NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALA	QIEKSFGKGAIMKMDGSQ	QEENLEVISTGSLGLD	ALGVGGL	PRGR			60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALA	QIEKSFGKGAIMKMDGSQ	QEENLEVISTGSLGLD	ALGVGGL	PRGR			60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KK..AASMSA	EKQKALAAALA	QIEKQFGKGSIMKMDA	.EVEPVQV	VSTGSLGLD	VALGVGGL	PRGR	68
NTDB id 47208 EJP617 RS09685 WP 014543474.1	MAIDDNKQKALAAALG	QIEKQFGKGSIMRLGED	.RTMDVET	ISTGSLSLD	IALGAGGL	PMGR		61
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	IALGAGGL	PMGR		59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALG	QIEKQFGKGSIMRLGDN	.RAMDVET	ISTGSLSLD	IALGAGGL	PMGR		59
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALG	QIEKQFGKGAVMRMGDH	.DRQAIPS	ISTGSLGLD	IALGIGGL	PKGR		59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	IALGIGGL	PKGR		59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALS	QIEKQFGKNTVMRLGDN	.TVQAVEA	VSTGSLTLD	IALGIGGL	PKGR		59
consensus	*** **	***	***!	***!	*****	*	***!!*!!*!!*!!*!!*!!	

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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 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
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NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC 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 47208 EJP617 RS09685 WP 014543474.1
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NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1205 PSJM300 05545 AFN77183.1
NTDB id 1022 ACIAD RS06390 WP 0004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
consensus

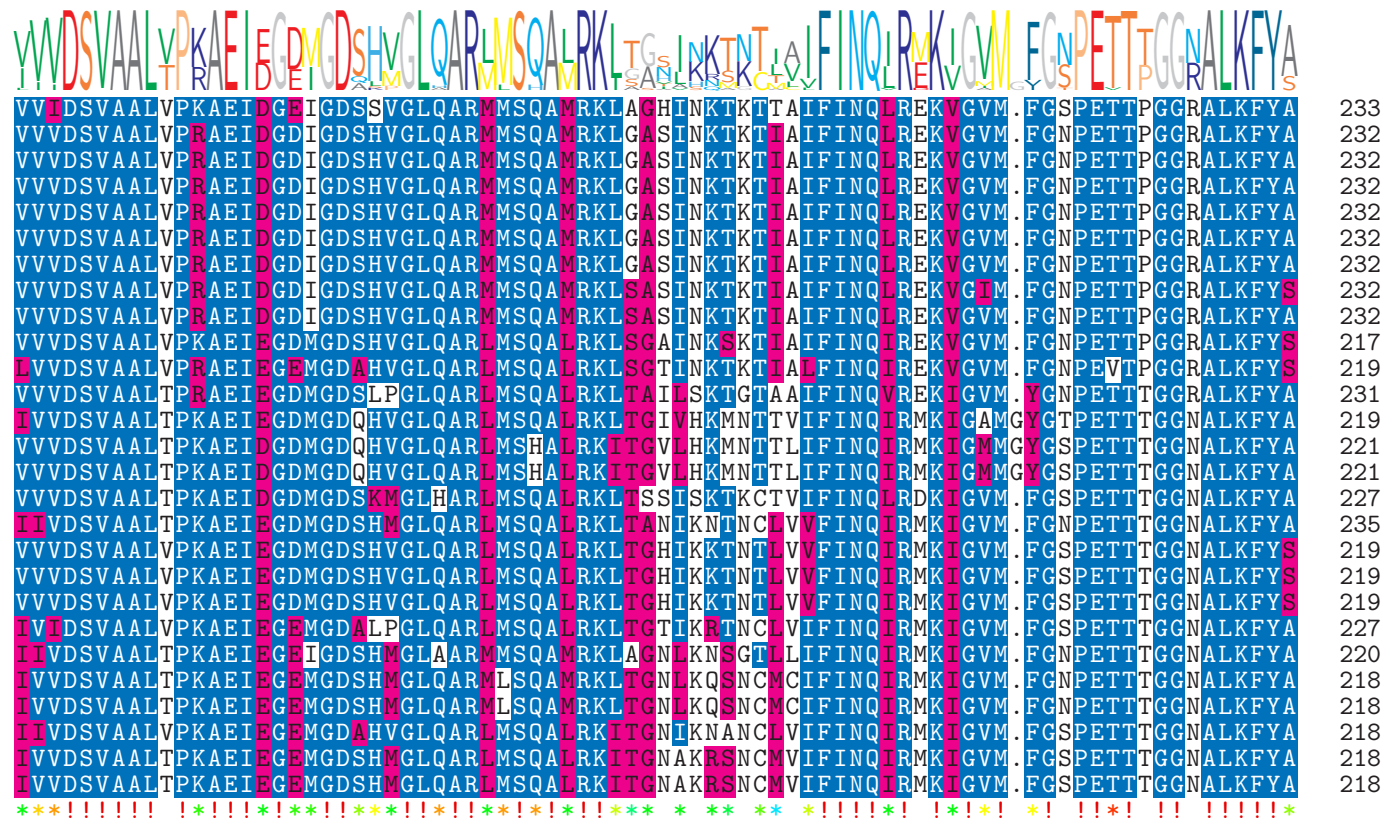
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consensus

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NTDB id 600 KW2 RS01765 WP 011675413.1	SVRLDVRG	STKIEEGS	.GDNKTQ	IGKITK	IKVVKN	KVAPPF	KVALV	DIMF	GEGIS	STGEL	INIAVE	EETII	KKSG	AWFAY	N	312	
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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDII	KKKA	GAWYSY	K	311	
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDII	KKKA	GAWYSY	K	311	
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRG	NTQIKGTG	.DQKETN	VGKETK	IKVVKN	KVAPPF	KEAVV	EIMY	GEGIS	KTGEL	LKIAS	DLDII	KKKA	GAWYSY	K	311	
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKN	KVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIAS	DLDII	KKKA	GAWYSY	K	311	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRG	STQIKGTG	.DQKDTN	VGKETK	IKVVKN	KVAPPF	KEAFV	EIMY	GEGIS	KTGEL	LKIAS	DLDII	KKKA	GAWYSY	K	311	
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NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRG	TTQIKGTG	.DQKDSN	IGKETK	IKVVKN	KVAPPF	KVAEV	EIMY	GEGIS	RGTGEL	VKIAS	DLDII	QKA	GAWFSY	N	311	
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRA	EQQLKQGN	DVM	GNKTKI	IKVVKN	KVAPPF	RTAEDV	DIMY	GEGIS	KEGEI	IDLGT	ELDIV	VQKSG	SWYSY	E	292	
NTDB id 625 LCA RS02525 WP 011374196.1	TVRLEVRRA	ETIKNGT	DM	IGNRAR	IKVVKN	KVAPPF	KVAEV	DIMY	GQGIS	RGTGEL	VDMAVE	KDI	INKSG	SWYSY	G	294	
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NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRK	VAT....L.KQ	NKEEP	IGNRVK	VVVKN	KNVAPPFR	QAEFDV	MFGE	GLSRE	GELIDY	GVKLD	DIVDK	SGAW	FSYK		294	
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NTDB id 1211 C694 RS00795 WP 000963128.1	SVRIDIRRI	AS....L.KQ	NKEQH	IGNRAK	AKVVKN	KNVAPPF	REAEFD	DIMF	GEGIS	KEGEI	IDYGV	KLDIV	DKSG	AWLSY	Q	296	
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRS	LSDTGKIK	DKSGEV	IGNRTK	VVVKN	KNVAPPFK	SAEFD	DIMY	GEGV	SKVGE	ILDVAT	DLDII	QKSG	SWFSY	Q	307	
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NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRR	TGS....I.KK	GEEVL	LGNETR	VKV	IKNKNVAPPFR	QAEFD	DILY	GEGIS	WEGEL	IDIGV	KNDI	INKSG	AWYSY	N	294	
NTDB id 1123 OK783 RS03845 WP 003688695.1	SVRLDIRR	TGS....I.KK	GEEVL	LGNETR	VKV	IKNKNVAPPFR	QAEFD	DILY	GEGIS	WEGEL	IDIGV	KNDI	INKSG	AWYSY	N	294	
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NTDB id 47208 EJP617 RS09685 WP 014543474.1	SVRLDIRR	IGA....I.KE	GDEV	VGSETR	VVVKN	KNVAAPFK	QAEFQ	IMY	GEGINI	YGEL	VDLGV	VKHK	LIEK	AGAWYS	Y	295	
NTDB id 1165 A1552VC RS01565 WP 000344154.1	SVRLDIRR	TGA....I.KE	GEEVL	VGNETR	IKVVKN	KIAAPF	KEANTQ	IMY	GQGFNR	REGEL	IDLGV	VKHK	MVEK	SGAWYS	Y	293	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRR	TGA....I.KE	GEEVL	VGNETR	IKVVKN	KIAAPF	KEANTQ	IMY	GQGFNR	REGEL	IDLGV	VKHK	MVEK	SGAWYS	Y	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRR	TGA....V.KE	GDEV	VGSETR	VVVKN	KNVAPPFR	QAEFQ	ILY	GKGI	YRNGE	IDLGV	VQQG	LVEK	SGAWY	AY	K	293
NTDB id 1022 ACIAD RS06390 WP 004925639.1	SVRLDIRR	IGQ....V.KE	GDEI	IGSETK	VVVKN	KMAPPF	REAI	FQ	ILY	GKGV	NQLGEL	VDLAV	QQN	IVQK	AGAWYS	Y	293
NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRR	IGQ....V.KE	GDEI	VGSETK	VVVKN	KMAPPF	KEAI	FQ	ILY	GKGT	NQLGEL	VDLAV	QQD	IVQK	AGAWYS	Y	293
consensus	*!!**	!*		*	**	*****!!*!!*!!*!!*	*		*****!!*!!**	*****	**		***	!	!*****!		

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NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDV	DEIDHKVRAAHG	LDDSEVAETEEETT	ASKTKAKAKKEEK	AVETE	EIELELED		387
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA	..VNEEVPLDLG	DELEIE	385
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA	..VNEEVPLDLG	DELEIE	385
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA	..VNEEVPLDLG	DELEIE	385
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA	..VNEEVPLDLG	DELEIE	385
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIF	DEIDHQVRVQFGL	IDGEEIAES	KKDE	AAQVDS	..VNEEVTLDL	GDELEIE	381
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEV	FAEIDHQVRVQFGL	IDGEEAAES	KKDE	VAQVDS	..VNEEVTLDL	GDELEIE	381
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVRVQYGL	IEDNTEEKQSSKE	ETDEK	..ADKNLVLEL	DDTIELE		382
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLF	DEIDRKVRVKFGL	LEESEESAMAVASE	E	TDDLALD	LDNGIEIE		377
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGR	ENAKQFLKENKDI	MLMIQEIREHYGL	DNNGVVQQAEET	QEEL	..EFE	.....		348
NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGR	ENAKNYLADHEDVE	DEVRLKVRAAYG	ISDVPPEEDLPT	TEDE	..QI	..NILPDDST	EE	355
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGK	EKTIAIYAERP	EMEQEIRDRVMAA	IRAGNAGEAPALA	PAPAAPEAAEA	.....			363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGGR	ENSKAFLKENPEI	ADEITKAIQNSMG	TEGMI	SGSEDDE	..GEE	.....		343
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGGR	ENAKALLKEDKALA	DEITLKI	KESIGSNEEI	MPLPDEP	..LEEME	.....		347
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGGR	ENAKALLKEDKALA	DEITLKI	KESIGSNEEI	MPLPDEP	..LEEME	.....		347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGGR	DTVVKELIKDNPE	LAELEAKIREKLQ	AK	.....				343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGG	KNNAVKWLKENPEI	ADKLEQEIRNTL	ASNPNS	VLKATASDS	NDSDVE	..EFSEEL	.....	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	TEGTQDET	D	G	..ERPEE	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	TEGTQDET	D	G	..ERPEE	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGG	KDNVRVWLKENPEI	SDEIDAKIRALNG	VEMHI	TEGTQDET	D	G	..ERPEE	348
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGR	DNCREFLRENAEL	AREIENKVVREHL	GVTPMG	AV	..TLAEEVEED	.....		352
NTDB id 47208 EJP617 RS09685 WP 014543474.1	GDKIGQGG	KANAGNFLKENPAI	ANEIDAKLRAMLL	GNQDD	KPDFVP	..AAHEVDAE	..SEANESL	.....	355
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGG	KANACKYLLKENPEI	AKTLDKKLREML	LNPNEM	QLIAETSSA	ADDVEFG	..AVPEE	..F	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGG	KANACKYLLKENPEI	AKTLDKKLREML	LNPNEM	QLIAETSSA	ADDVEFG	..AVPEE	..F	354
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGG	KANAAYLEENPEI	GIEEQIRAKLL	VTSAN	TKATPVAED	LADADI	.....		347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGG	KNNVIRYLEENPQ	ISTEIEAVIREQL	LTKASD	QTAA	..HDETEEEP	DLL	ES	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGG	KNNVIRYFEENN	QIAEEIERNIREQL	LTGTN	GAVQ	..I	..EDEEEP	DLL	349
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 499 SM12261 RS08315 WP 078228268.1	IEE	384	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349	
consensus			

-  non conserved
-  similar
-  ≥ 50% conserved