

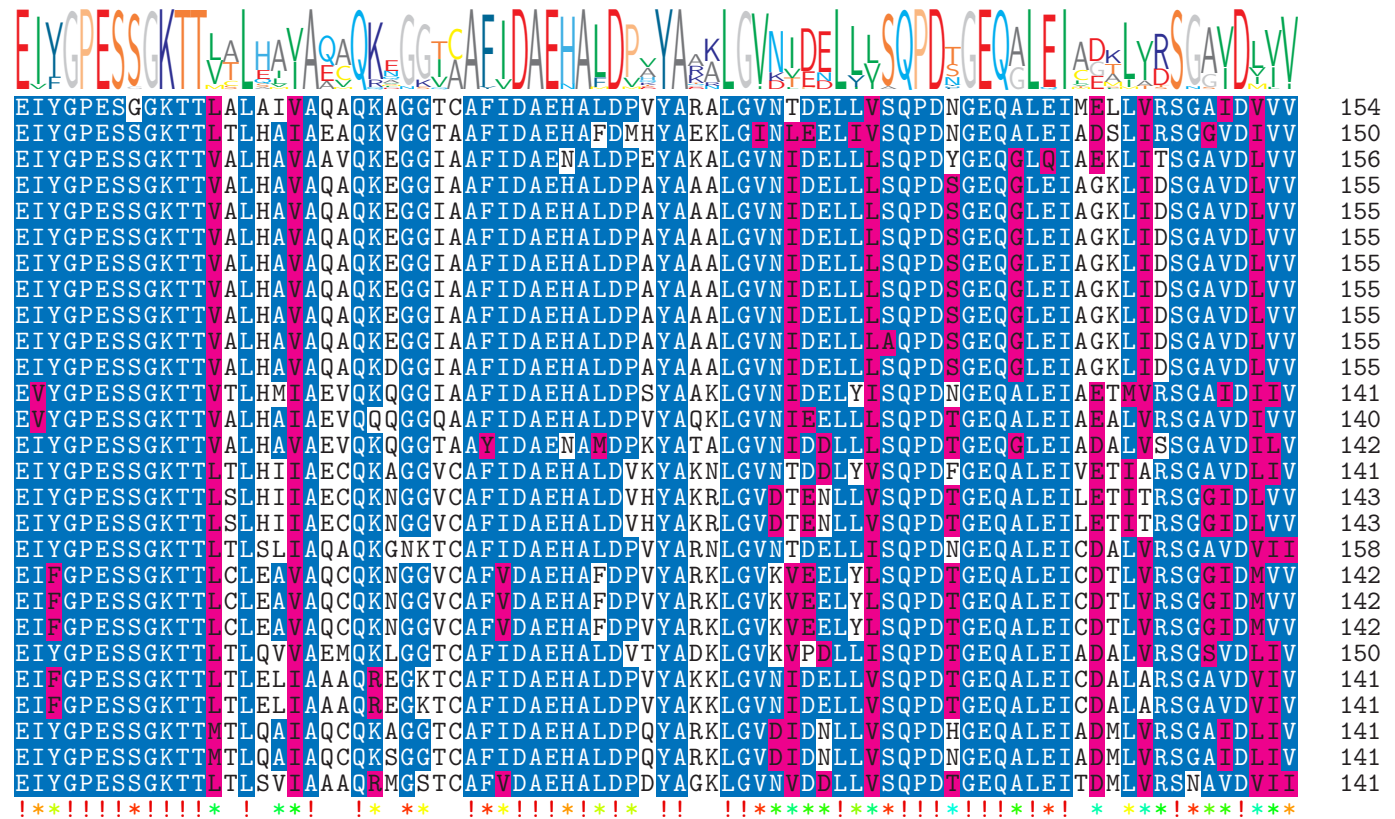
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NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD...ATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
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NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEA.ANQKVSVMSSGSLALDIALGAGGYPKGRIV	76
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIT	75
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NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIT	75
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NTDB id 40122 CLOLE RS12410 WP 013657466.1	MNDKSKALDAATISQIQKQFGKGSIMKLGAE.TDTNVHTFPTGSLSLDIALGVGGLPKGRIV	61
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDIALGIGGYPRGRIT	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPGRIV	62
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTTFGKGITLRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIT	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKAIISLAIKQIDKVFVGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKAIISLAIKQIDKVFVGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIT	63
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
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIT	61
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRIV	61
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NTDB id 1313 DR RS12030 WP 010888966.1
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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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

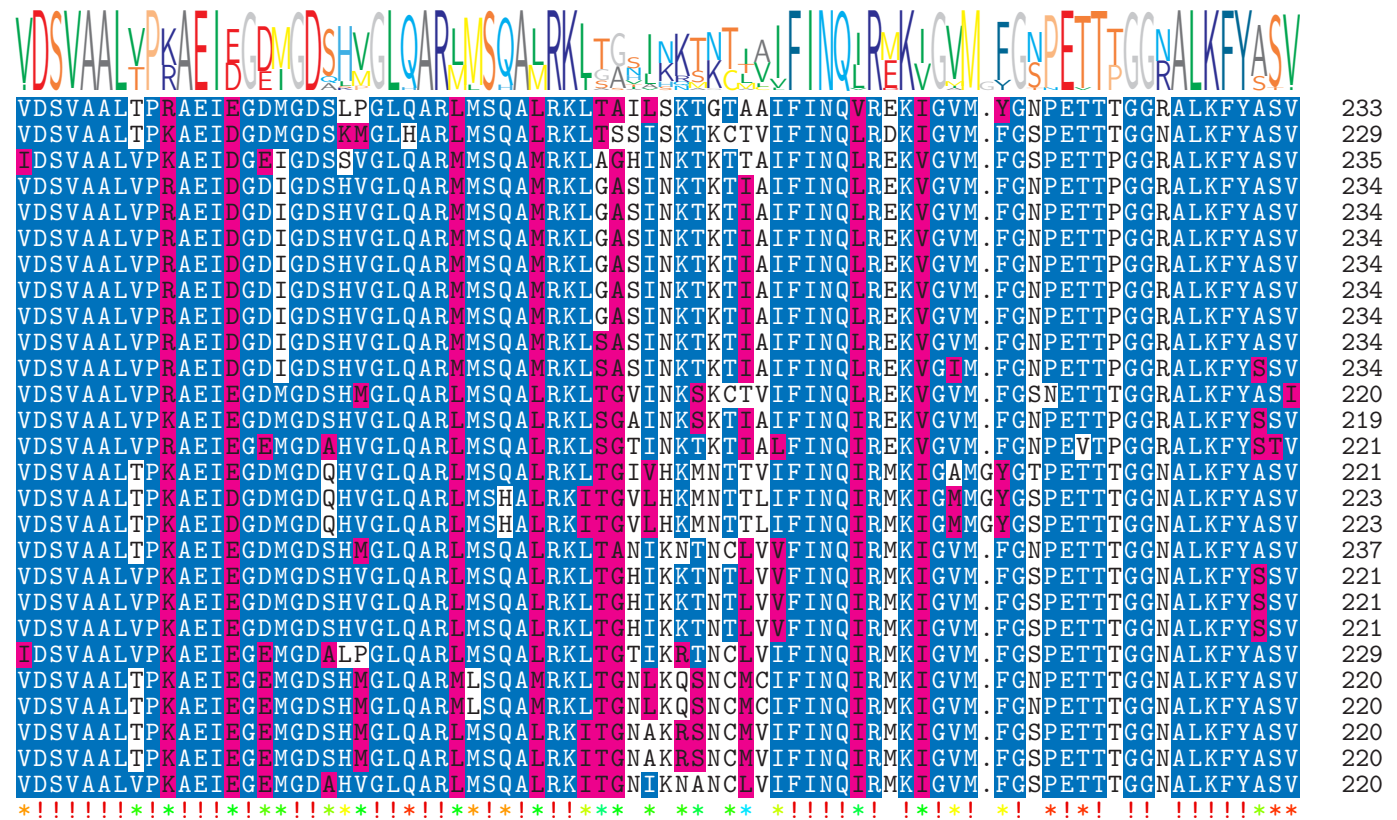
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consensus

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NTDB id 1313 DR RS12030 WP 010888966.1	RLDVRKIGQPTKV...GND	AVANTV	KIKTVKNKV	APPFKE	VELALVY	GKGF	QDLS	DLVGL	AADMD	IT	KKAGS	FYSY	GDE	309
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NTDB id 269 KZH43 RS08665 WP 001085462.1	RLDVRGNTQIKGT.GDQKETN	VGKET	KIKVVKNKV	APPFKE	AVVEI	IMYGEGIS	KTGELL	KIASD	LDIT	IKKAG	AWYSY	KDE		313
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NTDB id 194 SPR RS08825 WP 001085462.1	RLDVRGNTQIKGT.GDQKETN	VGKET	KIKVVKNKV	APPFKE	AVVEI	IMYGEGIS	KTGELL	KIASD	LDIT	IKKAG	AWYSY	KDE		313
NTDB id 159 SP RS09750 WP 001085462.1	RLDVRGNTQIKGT.GDQKETN	VGKET	KIKVVKNKV	APPFKE	AVVEI	IMYGEGIS	KTGELL	KIASD	LDIT	IKKAG	AWYSY	KDE		313
NTDB id 527 SMSK321 RS11065 WP 001085454.1	RLDVRGSTQIKGT.GDQKDTN	VGKET	KIKVVKNKV	APPFKE	AFVEI	IMYGEGIS	KTGELL	KIASD	LDIT	IKKAG	AWYSY	KDE		313
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NTDB id 1245 Cj1673c YP 002345041.1	RLDVRKVATLKQN.....E	EPIGN	RVKVVKVKNKV	APPFQ	QAEFD	VMFGE	LSREGEL	IDYGV	KLDIV	DKS	GAW	F	SYKDK	296
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NTDB id 1123 OK783 RS03845 WP 003688695.1	RLDIRRTGSIKKG.....E	EVLG	NETRVKVIKNKV	APPFQ	AEFD	DILYEGEGIS	WEDEL	IDIGV	KNDI	INKS	GAW	SY	NGA	296
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	RLDIRRTGAIKEG.....E	EVGN	ETRIKVVKNK	IAAPFKE	ANTQIM	YGQGF	NREGEL	IDLG	VKHK	MVEK	SGAW	SY	NGD	295
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NTDB id 1205 PSJM300 05545 AFN77183.1	RLDIRRTGAVKEG.....D	EVVG	SETRVKVVKNKV	APPFQ	AEFQ	IILYGK	GIYRN	GEI	IDLG	VQQG	LVEK	SGAW	YKGS	295
consensus	!***!* ** *	*	**	*****!***!!*!!*!*	*	*****!*!***	*****	**	***	!	!*****!			

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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIA	YIAERP	PEMEQEIRDR	VMAAIRAGNAGEAPALAPAPAA	PEAAEA		363
NTDB id 1334 RAOC RS04870 WP 004918236.1	KLGGGRD	TVKELIKD	NPELAEELEAKI	REKLQAK			343
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGA	EKA	KNYLKEHQDV	FDEIDHKVRAAHGL	LDDSEVAETE	EETTAS	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKYL	AEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQD	TENKKDE	387
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGS	ENAKKYL	AEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQD	TENKKDE	387
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGS	ENAKKYL	AEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQD	TENKKDE	387
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGS	ENAKKYL	AEHPEIF	DEIDKQVRSKFGL	LIDGEEVSEQD	TENKKDE	387
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NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGS	ENAKKYL	ADNPEIF	DEIDHQRVVFGL	LIDGEEIAE	SKKDE	383
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NTDB id 115 BSU 16940 NP 389576.2	RLGQGR	ENAKQFL	KENKDIM	LMIQEQIREHYGL	DNNGVVQQAEETQE	LEFE..E	348
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NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGG	KDNVR	VWL	KENPEI	SDEIDAKIR	ALNGVEMHITEGTQDET	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGG	KDNVR	VWL	KENPEI	SDEIDAKIR	ALNGVEMHITEGTQDET	348
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGG	KANACKYL	KENPEI	AKTLDK	KLREMLLN	PENMQLIAETSSAAD	354
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGG	KNNVIR	YLEENP	QISTEIE	AVIREQLL	TKASDQTA..HDETEEPDLL..ES	349
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NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGG	KANA	AKYLEEN	PEIGQEIE	QQIRAKLL	VTSANTKATPVAEDLADADI	347
consensus	**!!!!***** ** * *** ***** ** *						*

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NTDB id 1313 DR RS12030 WP 010888966.1	.	363
NTDB id 1334 RAOC RS04870 WP 004918236.1	.	343
NTDB id 600 KW2 RS01765 WP 011675413.1	.	387
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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 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
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NTDB id 408 SMU RS09530 WP 002262392.1	.	383
NTDB id 40122 CLOLE RS12410 WP 013657466.1	.	353
NTDB id 115 BSU 16940 NP 389576.2	.	348
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	.	349
NTDB id 1205 PSJM300 05545 AFN77183.1	.	347

consensus

 non conserved
 similar
 ≥ 50% conserved