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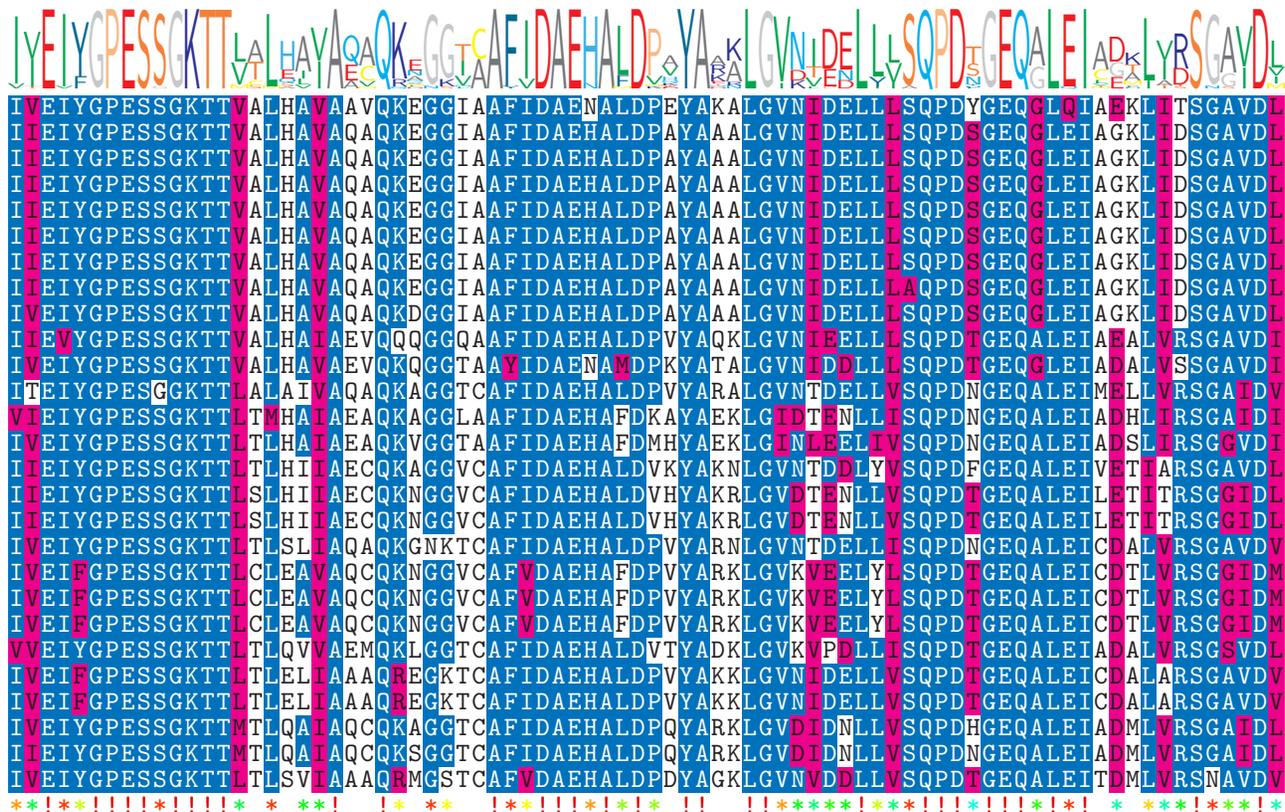


NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGER.ANQKVSVVSSGSLALDIALGAGGYPKGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 194 SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 159 SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGR	73
NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGR	73
NTDB id 115 BSU 16940 NP 389576.2	.....MSDRQAALDMALKQIEKQFGKGSIMKLGK.TDTRISTVPSGSLALDIALGIGGYPKGR	58
NTDB id 625 LCA RS02525 WP 011374196.1	.....MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPKGR	60
NTDB id 1313 DR RS12030 WP 010888966.1	.....MSKDATKEISAPTDAKERSKATETAMSIKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPKGR	72
NTDB id 419822 GSQ66 RS11745 WP 162427652.1	.....MSVSNKLLKALQLTIDKLDKTYGKGTVMKLSDNKVE.DIPAISTGSLGLDIALGIGGLPKGR	61
NTDB id 1334 RAOC RS04870 WP 004918236.1	.....MAK..TETTSVNDKSKKALAAVLEKLDKTYGKGTVMKLGDTVDHNIIEVIPSGLGLDLALGVGGYPKGR	68
NTDB id 1245 Cj1673c YP 002345041.1	.....MDDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVKGR	59
NTDB id 1214 NCTC11637 00359 SQJ03206.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVKGR	61
NTDB id 1211 C694 RS00795 WP 000963128.1	.....MAIDEDKQKATISLAIKQIDKVFVGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVKGR	61
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKSSKNNT..VVKQVEPEQKQKALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	.....MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQEEENLEVISTGSLGLDLALGVGGLPKGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPKGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	.....MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	.....MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	.....MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGR	59
NTDB id 1205 PSJM300 05545 AFN77183.1MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGR	59
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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 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 419822 GSQ66 RS11745 WP 162427652.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1245 Cj1673c YP 002345041.1
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NTDB id 1211 C694 RS00795 WP 000963128.1
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
NTDB id 1165 A1552VC RS01565 WP 000344154.1
NTDB id 1142 GTF74 RS11550 WP 000344154.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1

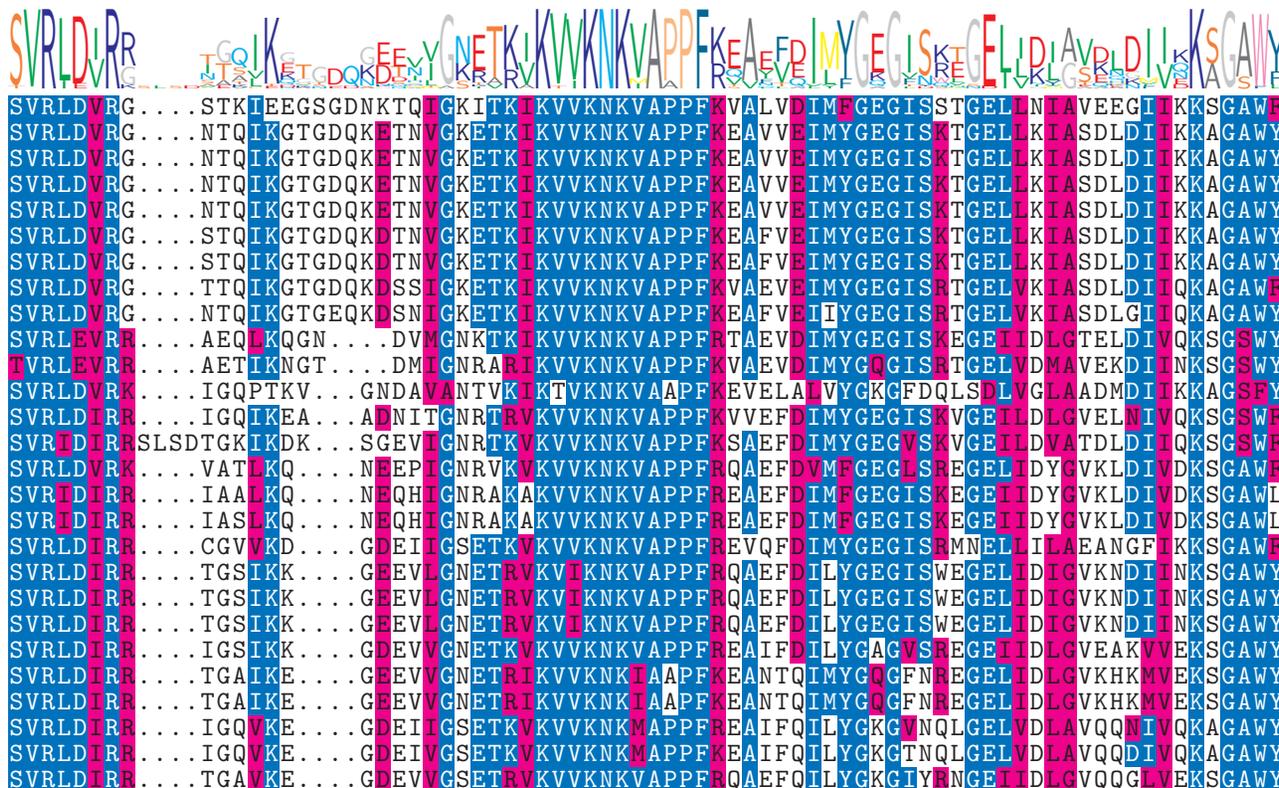
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 NTDB id 1205 PSJM300 05545 AFN77183.1



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NTDB id 600	KW2	RS01765	WP 011675413.1	AYNDEKIGQGA	EKAKNYLKEHQ	DVFDEIDHKV	RAAHGIL	DDSEVAETEEETT	ASKTKAKAKKEEK	AVETEEIELELED..	387
NTDB id 269	KZH43	RS08665	WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEI	FDEIDKQVRSK	FG	LIDGEEVSEQDTEN	KKDE....PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 228	SPD	RS09265	WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEI	FDEIDKQVRSK	FG	LIDGEEVSEQDTEN	KKDE....PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 194	SPR	RS08825	WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEI	FDEIDKQVRSK	FG	LIDGEEVSEQDTEN	KKDE....PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 159	SP	RS09750	WP 001085462.1	SYKDEKIGQGS	ENAKKYLAEHPEI	FDEIDKQVRSK	FG	LIDGEEVSEQDTEN	KKDE....PKKEEA..	VNEEVPLDLGDEL	382
NTDB id 499	SM12261	RS08315	WP 078228268.1	SYKDEKIGQGS	ENAKKYLADNPEI	FDEIDHQV	RVQFGL	LIDGEEIAES....	KKDE....AAQVDS..	VNEEVTLDLGDEL	378
NTDB id 527	SMSK321	RS11065	WP 001085454.1	SYKDEKIGQGS	ENAKKYLADNPEI	FDEIDHQV	RVQFGL	LIDGEEAAES....	KKDE....VAQVDS..	VNEEVTLDLGDEL	378
NTDB id 453	Spy49	1753c	ACI62003.1	SYNGEKIGQGS	ENAKRYLADHPQL	FDEIDRKR	VRVKFGL	LEESEESAMAVASE	.....E.....	TDDLALDLNNGI	374
NTDB id 408	SMU	RS09530	WP 002262392.1	SYNGEKIGQGS	ENAKKFLADNPEI	FDDIDHKV	RVQYGL	IEEDNTEEKQSSKEK	.....ETDEK..	ADKNLVLELDDTI	379
NTDB id 115	BSU	16940	NP 389576.2	SYEEERLGGG	RENAKQFLKENK	DIMLMIQEQ	IREHYGL	DNNGVVQQAEETQEEL	.EFE.E.....	.....	348
NTDB id 625	LCA	RS02525	WP 011374196.1	SYGSERIGQGR	ENAKNYLADHED	VEDEVRLK	VRAAYGIS	SDVPEEDLPTTEDE	.QI.NILPDDST....	EE.....	355
NTDB id 1313	DR	RS12030	WP 010888966.1	SYGDERIGQG	KEKTIAYTAERPE	MEQEIRDR	VMAAIRAGN	AGEAPALAPAPAAPEAAE	..A.....	.....	363
NTDB id 419822	GSQ66	RS11745	WP 162427652.1	SYDGNKLGQGR	DGVKQILLDNPEI	LMDEIEQK	IRAIVKGEPEK	.....VAEVLEDK	SAD..RGE.....	.....	349
NTDB id 1334	RAOC	RS04870	WP 004918236.1	SYQDTKLGQGR	DTVKELIKDNPEI	LAEELEAKI	REKLQAK	.....	.....	.....	343
NTDB id 1245	Cj1673c	YP 002345041.1		SYKDKKLGQGR	ENSKAFLKENPEI	ADEITKA	IQNSMG	TEGMI.....	SGSEDE..GE..E.....	.....	343
NTDB id 1214	NCTC11637	00359	SQJ03206.1	SYQDKKLGQGR	ENAKALLKEDKAL	ADEITLKI	KESIGS	NEEI.....MPLPDEP..	LE..EME.....	.....	347
NTDB id 1211	C694	RS00795	WP 000963128.1	SYQDKKLGQGR	ENAKALLKEDKAL	ADEITLKI	KESIGS	NEEI.....MPLPDEP..	LE..EME.....	.....	347
NTDB id 1389	A4U84	RS07560	WP 021112712.1	SYDGTKIGQG	KNNAVKWLKENPEI	ADKLEQEI	IRNTLAS	NPNS....VLKATAS	SDSND..ESDVVEEF	SSEEL.....	372
NTDB id 1130	NGFG	RS03960	WP 003688695.1	SYNGAKIGQG	KDNVRVWLKENPEI	SDEIDAKI	RALNGVEMHI	.....TEGTQDET	DGE..R.....	PEE.....	348
NTDB id 1124	NGFG	RS03960	WP 003688695.1	SYNGAKIGQG	KDNVRVWLKENPEI	SDEIDAKI	RALNGVEMHI	.....TEGTQDET	DGE..R.....	PEE.....	348
NTDB id 1123	OK783	RS03845	WP 003688695.1	SYNGAKIGQG	KDNVRVWLKENPEI	SDEIDAKI	RALNGVEMHI	.....TEGTQDET	DGE..R.....	PEE.....	348
NTDB id 1427	RS	RS02760	WP 011000510.1	SYNGERIGQGR	DNCREFLRENAEL	AREIENK	VREHLGV	TPMG....AVTLA	.EEVEE..D.....	.....	352
NTDB id 1165	A1552VC	RS01565	WP 000344154.1	SYNGDKIGQG	KANACKYLNKENPEI	AKTLDK	KLREMLLN	PENM....QLIAET	SSAAD..DVEFGAV	PEEF.....	354
NTDB id 1142	GTF74	RS11550	WP 000344154.1	SYNGDKIGQG	KANACKYLNKENPEI	AKTLDK	KLREMLLN	PENM....QLIAET	SSAAD..DVEFGAV	PEEF.....	354
NTDB id 1022	ACIAD	RS06390	WP 004925639.1	SYQGNKIGQG	KNNVIRYLEENP	QISTEIEAV	IREQLLTK	KASD....QTAA	.HDETEE..EPDLL..	ES.....	349
NTDB id 1074	ABD1	RS10195	WP 000344167.1	SYQGNKIGQG	KNNVIRYFEENN	QIAEEIERN	IREQLLTT	GTN....GAVQ	.I.EDEE..EPDLL..	LES.....	349
NTDB id 1205	PSJM300	05545	AFN77183.1	AYKGSKIGQG	KANAACYLEENPEI	GQIEIQQL	IRAKLLV	TSAN....TKATP	VAEDLA..DADI.....	347
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NTDB id 600 KW2 RS01765 WP 011675413.1	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	EIEIEE	388
NTDB id 228 SPD RS09265 WP 001085462.1	EIEIEE	388
NTDB id 194 SPR RS08825 WP 001085462.1	EIEIEE	388
NTDB id 159 SP RS09750 WP 001085462.1	EIEIEE	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	EIEIEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	EIEIEE	384
NTDB id 453 Spy49 1753c ACI62003.1	EIED..	378
NTDB id 408 SMU RS09530 WP 002262392.1	ELED..	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 1205 PSJM300 05545 AFN77183.1	347

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 ≥ 50% conserved