

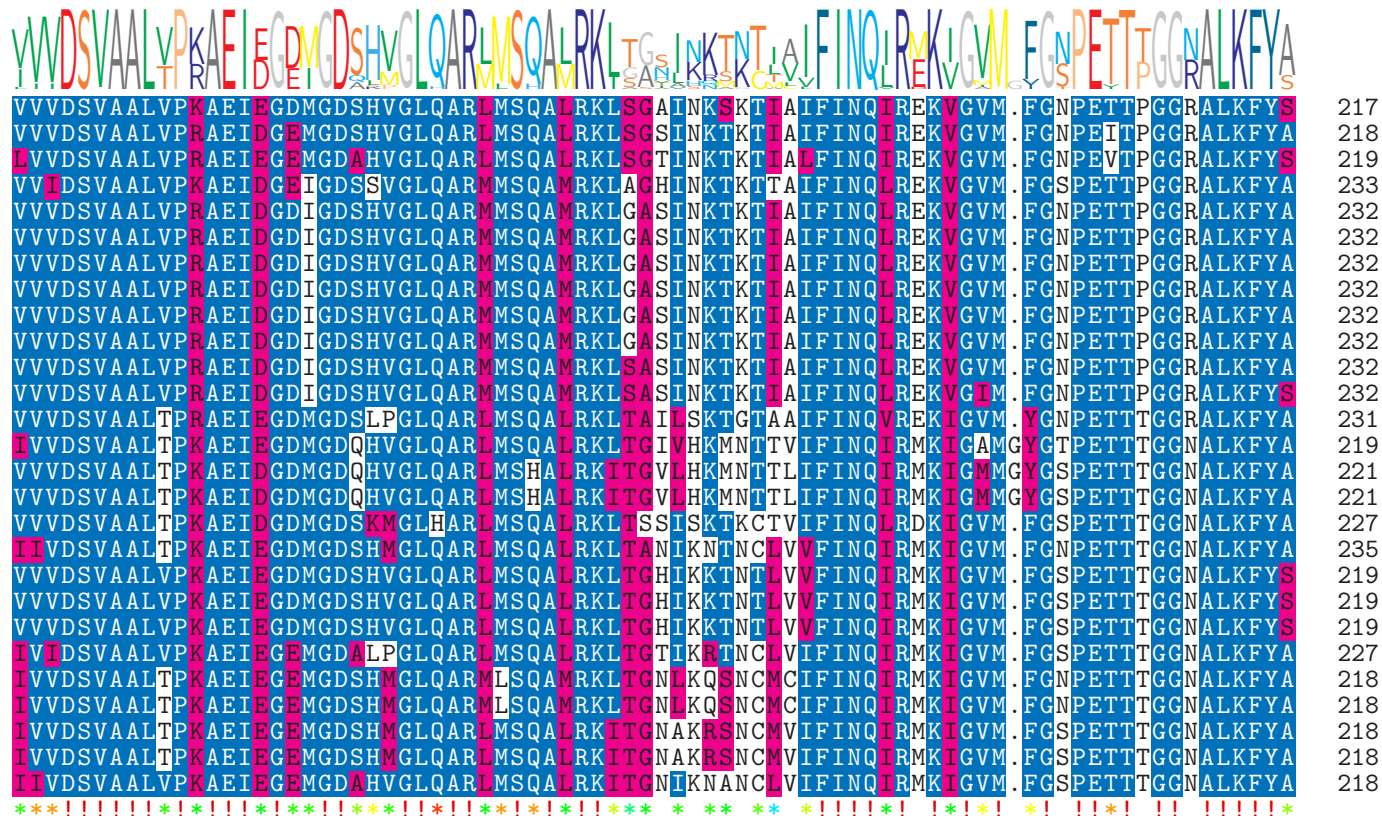
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NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKCSIMKLCEK.TDTRISTVPSGSLALDTALGIGGYPRGR	58
NTDB id 1124996 EQB39 RS13435 WP 002287328.1	MADDRKAALDAALKKIEKSYGKCSIMKLCEK.IDQQISTIPSGSLALDVALGVGGYPRGR	59
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKCSIMRMCEK.VDTQVSTVSSGSLALDEALGVGGYPRGR	60
NTDB id 600 KW2 RS01765 WP 011675413.1	MATK.....KKTNFDDITKKYGAERDKALADALALIEKDFGKCSIMRLCEA.ANQKVSVSSGSLALDTALCAGGYPRGR	74
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKCSIMRLCER.AEQKVQVMSSGSLALDTALCSGGYPKGR	73
NTDB id 228 SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGAEREKALNDALKLIEKDFGKCSIMRLCER.AEQKVQVMSSGSLALDTALCSGGYPKGR	73
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NTDB id 453 Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLCER.AEQKVQVMSSGSLALDTALCAGGYPRGR	73
NTDB id 408 SMU RS09530 WP 002262392.1	.MAK.....RIKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLCER.AEQKVQVMSSGSLALDTALCAGGYPRGR	73
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTDAKERSKATETAMSQIEKAFGKCSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGTIPRGR	72
NTDB id 1245 Cj1673c YP 002345041.1	MDENKRRSLDAALKSLDKTFGKCTILRLCDK.EVEQIDSIGTGSVGLDLALCIGGVPRGR	59
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATSLATKQIDKVFVGKCALVRLCDK.QVEKIDISTGSLGLDLALCIGGVPRGR	61
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATSLATKQIDKVFVGKCALVRLCDK.QVEKIDISTGSLGLDLALCIGGVPRGR	61
NTDB id 1334 RA0C RS04870 WP 004918236.1	MAKT..ETTSPNDKKKALAALVLEKLDKTYGKCTVMKLCGDTVVDHNIEVIPSLSLGLDLALCVGGYPKGR	68
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTV..VKQVEPEQKKQALEAALAQIEKQFGKCSIMKLGGT.EQLDIESVSTGSLGLDLALCIGGLPMGR	76
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALCVGGLPGR	60
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALCVGGLPGR	60
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVIISTGSLGLDLALCVGGLPGR	60
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....K..KAASMSAEKQKALAAALAQIEKQFGKCSIMKMGDA.EVEPVQVVSTGSLGLDVALCVGGLPGR	68
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKCSIMRLCDN.RAMDVETISTGSLSLDLALCAGGLPMGR	59
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKCSIMRLCDN.RAMDVETISTGSLSLDLALCAGGLPMGR	59
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDENKSKALQAALSQIEKQFGKNTVMRLCDN.TVQAVEAVSTGSLTLDIALCIGGLPKGR	59
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLCDN.TVQAVEAVSTGSLTLDIALCIGGLPKGR	59
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consensus	*** **	

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NTDB id 269 KZH43 RS08665 WP 001085462.1	IIEIYGP	ESSGKTT	VALHATAQA	QKEGGIA	AFIDAEHALDP	AYAAAL	GVNIDELL	SQPD	GEQGLEIA	AGKL	ID	SGAVD	L	153	
NTDB id 228 SPD RS09265 WP 001085462.1	IIEIYGP	ESSGKTT	VALHATAQA	QKEGGIA	AFIDAEHALDP	AYAAAL	GVNIDELL	SQPD	GEQGLEIA	AGKL	ID	SGAVD	L	153	
NTDB id 194 SPR RS08825 WP 001085462.1	IIEIYGP	ESSGKTT	VALHATAQA	QKEGGIA	AFIDAEHALDP	AYAAAL	GVNIDELL	SQPD	GEQGLEIA	AGKL	ID	SGAVD	L	153	
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NTDB id 1389 A4U84 RS07560 WP 021112712.1	IVEIYGP	ESSGKTT	TLSLIIAQA	QKGNKTC	AFIDAEHALDP	VYARN	LVNTDELL	V	SQPDN	GEQALEI	CDAL	VRSGAVD	V	156	
NTDB id 1130 NGFG RS03960 WP 003688695.1	IVEIFGP	ESSGKTT	LCEAVAQC	QKNGGVC	AFVDAEHAFD	PVYARK	LGVKVEEL	YL	SQPD	GEQALEI	CDTL	VRSGGID	M	140	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVEIFGP	ESSGKTT	TLLELIAAA	QREBKTC	AFIDAEHALDP	VYAKKL	GVNIDELL	V	SQPD	GEQALEI	CDAL	ARSGAVD	V	139	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVEIFGP	ESSGKTT	TLLELIAAA	QREBKTC	AFIDAEHALDP	VYAKKL	GVNIDELL	V	SQPD	GEQALEI	CDAL	ARSGAVD	V	139	
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	IVEIYGP	ESSGKTT	MTLQATAQC	QKSGGTC	AFIDAEHALDP	QYARK	LGVDDIDN	LLV	SQPDN	GEQALEI	ADML	VRSGA	IDL	139	
NTDB id 1205 PSJM300 05545 AFN77183.1	IVEIYGP	ESSGKTT	TLSVIAAA	QRMGSTC	AFVDAEHALDP	DYAGKL	GVNVDDL	LLV	SQPD	GEQALEI	TML	VR	SN	AVDV	139
consensus	***!***	!!!!*!!!!	*!***!	!* **	!***!!!!*!* *	!!	!!****!!**!!!!	!!!!*!*!	* **	!***!*					

NTDB id 115 BSU 16940 NP 389576.2
NTDB id 1124996 EQB39 RS13435 WP 002287328.1
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 600 KW2 RS01765 WP 01675413.1
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 ACT62003.1
NTDB id 408 SMU RS09530 WP 002262392.1
NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
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NTDB id 1124 NGFG RS03960 WP 003688695.1
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consensus

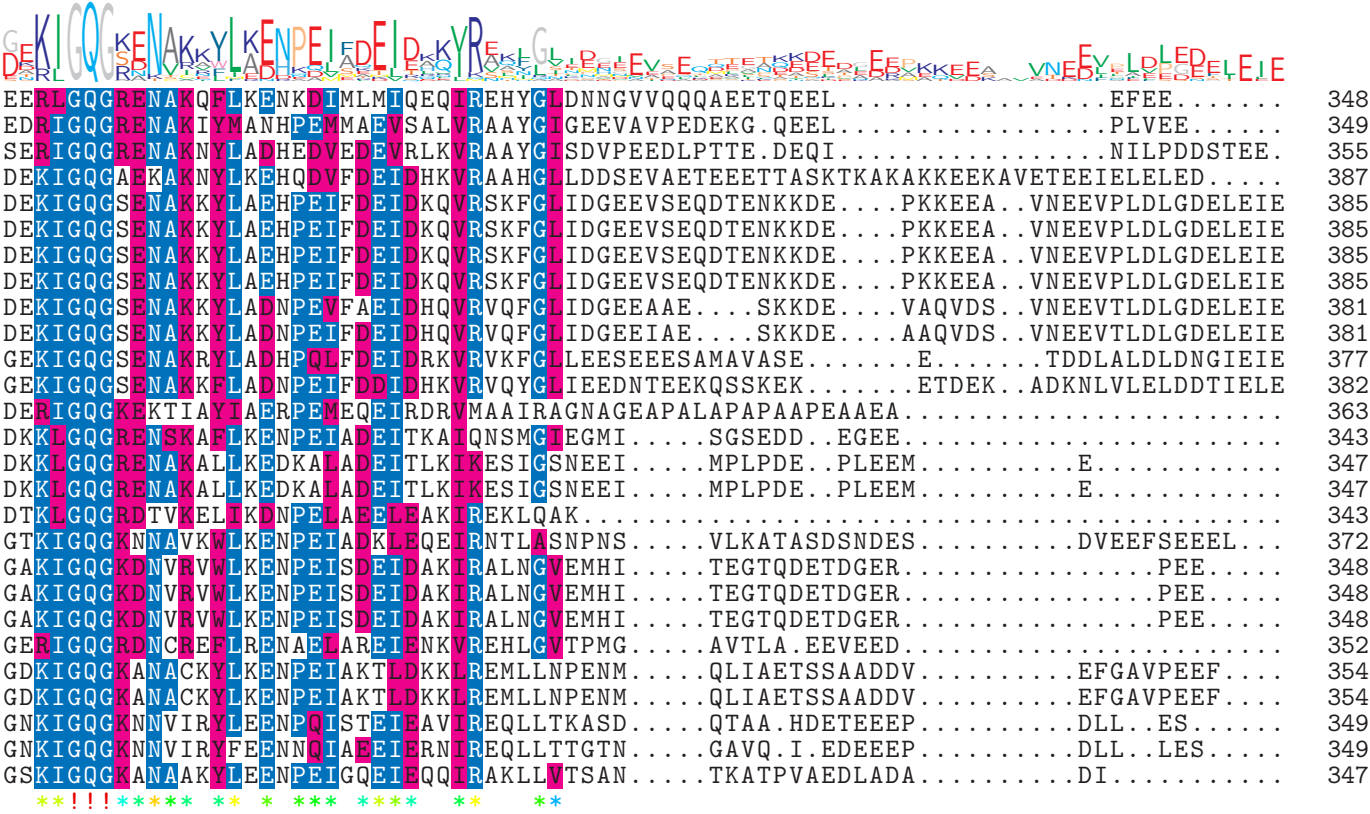


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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311	
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKE	TNMGKETKIKVVKNKVAPPFKAEAVVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311	
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKD	TNMGKETKIKVVKNKVAPPFKAEAFVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311	
NTDB id 499 SM12261 RS08315 WP 078228268.1	SVRLDVRGSTQIKGTG.DQKD	TNMGKETKIKVVKNKVAPPFKAEAFVEIMYGEGISKTGELLKIASDL	DI	IKKAGAWYSYK	311	
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKD	SSITGKETKIKVVKNKVAPPFKVAEVEIMYGEGISRTGELVKIASDL	DI	IQKAGAWFSYN	311	
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKD	SSITGKETKIKVVKNKVAPPFKAEAFVEIMYGEGISRTGELVKIASDL	GI	IQKAGAWFSYN	311	
NTDB id 1313 DR RS12030 WP 010888966.1	SVRLDVRKIGQ....PTKVGND	AVANTVKIKIKVVKNKVAAPFKEVELALVYCKGCFDQLS	DLVGLA	ADMDI	IKKAGSFYSYG	307
NTDB id 1245 Cj1673c YP 002345041.1	SVRLDVRKIVAT....L.KQNE	EEPIGNRVKIKVVKNKVAPPFRRQAEFDVMEFGEGLSREGELIDYGVKLD	DIVDKSGAWFSYK	294		
NTDB id 1211 C694 RS00795 WP 000963128.1	SVRLDIRRIAS....L.KQNE	QHICNRAKAKVVKNKVAPPFRRQAEFDIMFEGEGISKEGELIDYGVKLD	DIVDKSGAWLSYQ	296		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRLDIRRIAA....L.KQNE	QHICNRAKAKVVKNKVAPPFRRQAEFDIMFEGEGISKEGELIDYGVKLD	DIVDKSGAWLSYQ	296		
NTDB id 1334 RA0C RS04870 WP 004918236.1	SVRLDIRRSLSDTGKIKDKSGEVI	TGNRTKIKVVKNKVAPPFKSAEFDIMYGECEVSKVGEILDVATDL	DI	IQKSGWFSYQ	307	
NTDB id 1389 A4U84 RS07560 WP 021112712.1	SVRLDIRRCGV....V.KDGE	IEITGSETKIKVVKNKVAPPFRRQAEFDIMYGECEVSKVGEILDVATDL	DI	IQKSGWFSYD	310	
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NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS....I.KKGE	EVLCNETRVKVIKNKVAPPFRRQAEFDILYGECEVSKVGEILDVATDL	DI	INKSGAWYSYN	294	
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NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS....I.KKGE	EVVGNETKIKVVKNKVAPPFRRQAEFDILYGECEVSKVGEILDVATDL	DI	INKSGAWYSYN	302	
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NTDB id 1074 ABD1 RS10195 WP 000344167.1	SVRLDIRRIGQ....V.KEGE	DEIVGSETKIKVVKNKMAPPFRRQAEFQILYCKGYNQLGELVDLAVQQ	DI	VQKAGAWYSYQ	293	
NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA....V.KEGE	EVVGNETRVKVVKNKVAPPFRRQAEFQILYCKGIYRNGEIIDLGVQQGLVEKSGAWAYK	293			
consensus	* * ! * * * ! *	* * * * * ! * * ! ! ! * ! * ! * *	* * * * * ! * ! * * * * * * * * * * * * * * ! ! * * * * !			

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NTDB id 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
NTDB id 453 Spy49 1753c ACI62003.1
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



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NTDB id 115	BSU 16940 NP 389576.2	...	348
NTDB id 1124996	EQB39 RS13435 WP 002287328.1	...	349
NTDB id 625	LCA RS02525 WP 011374196.1	...	355
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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
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consensus			

- non conserved
- similar
- ≥ 50% conserved