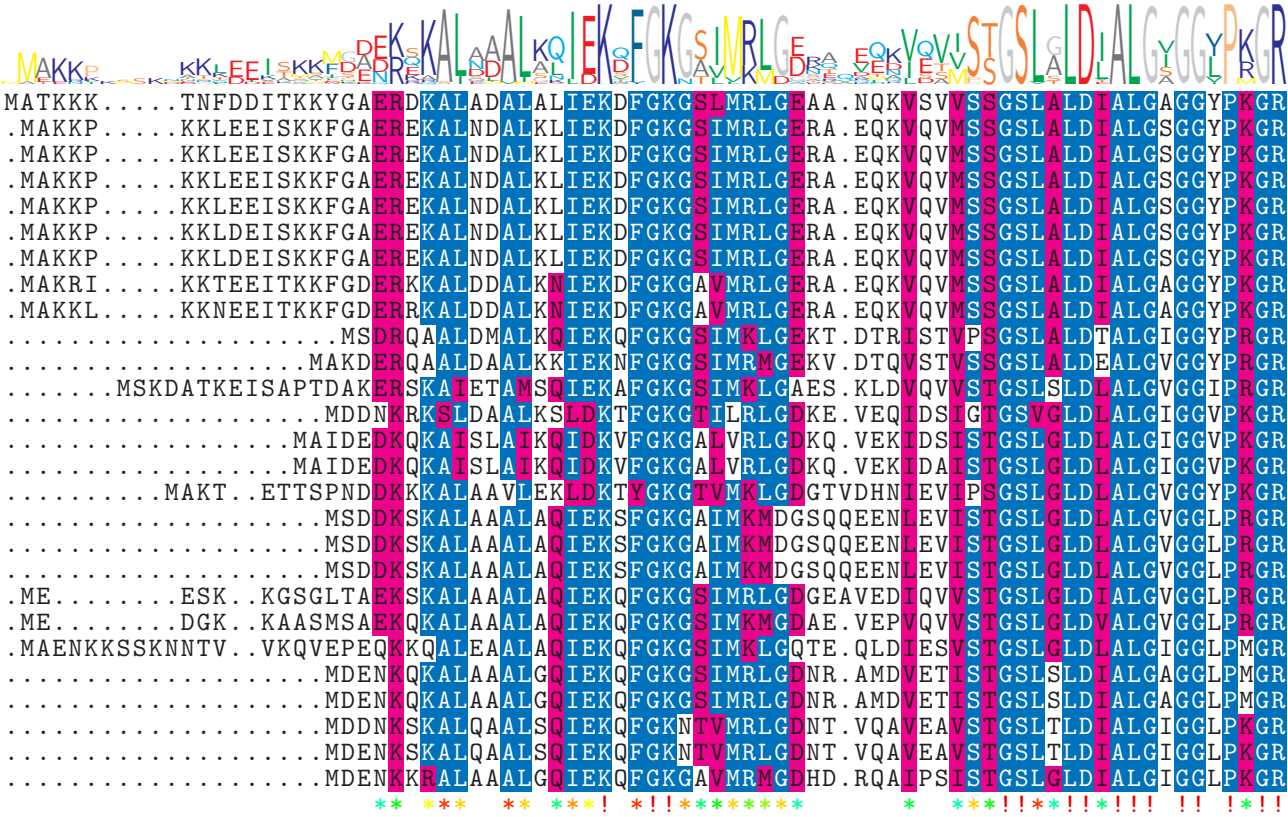


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NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 001085462.1
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NTDB id 1165 A1552VC RS01565 WP 000344154.1
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NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

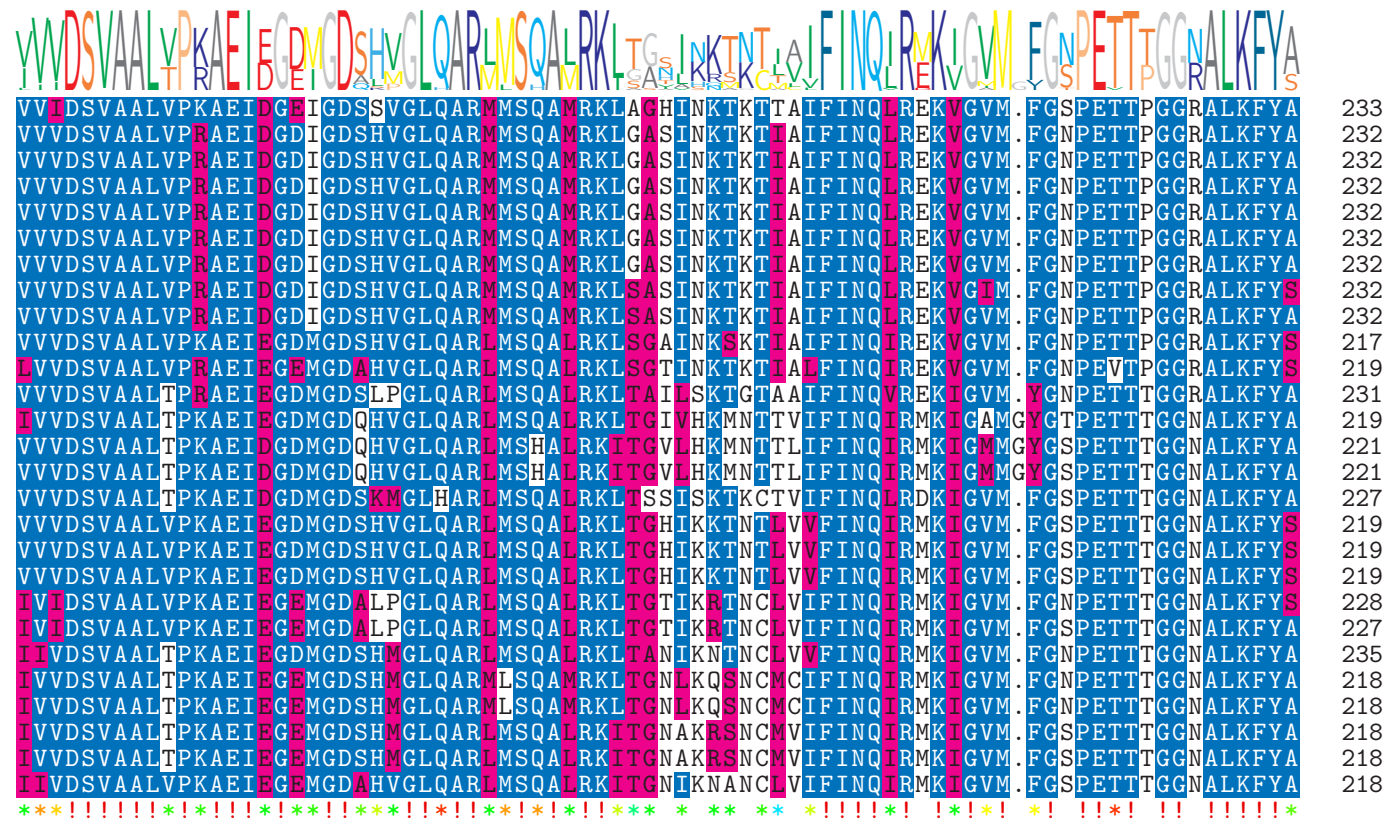


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NTDB id 600 KW2 RS01765 WP 011675413.1
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consensus



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consensus



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NTDB id 228 SPD RS09265 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 194 SPR RS08825 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 159 SP RS09750 WP 001085462.1	SVRLDVRGNTQIKGTG.DQKETN	VGKETKIKVVKNKVAPPFKAEAVVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	SVRLDVRGSTQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKAEAFVEIMYEGEGISKTGELLKIASDLDIKKAGAWYSYK	311
NTDB id 408 SMU RS09530 WP 002262392.1	SVRLDVRGNTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKAEAFVEIITYGEGISRTGELVKIASDLGI IQKAGAWYSYN	311
NTDB id 453 Spy49 1753c ACI62003.1	SVRLDVRGTTQIKGTG.DQKDSS	IGKETKIKVVKNKVAPPFKVAEVEIMYEGEGISRTGELVKIASDLDI IQKAGAWFSYN	311
NTDB id 115 BSU 16940 NP 389576.2	SVRLEVRRAEQLKQGN.....DV	MGNKTKIKVVKNKVAPPFRTAEVDDIMYEGEGISKEGEIIDLGTELDIDVQKSGSWYSYE	292
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	SVRIDIRRIAA.....L.KQNEQH	IGNRAKAKVVKNKVAPPFRFAEFDIMFGEGISKEGEIIDYGVKLDIDVDKSGAWLSYQ	296
NTDB id 1334 RAOC RS04870 WP 004918236.1	SVRIDIRRLSDTGKIKDKSGEV	IGNRTKVVVKNKVAPPFKSAEFDIMYEGEGVSKVGEILDVATDLDI IQKSGSWFSYQ	307
NTDB id 1130 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS.....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDI INKSGAWYSYN	294
NTDB id 1124 NGFG RS03960 WP 003688695.1	SVRLDIRRTGS.....I.KKGEV	LGNETRVKVIKNKVAPPFRQAEFDILYEGEGISWEGELIDIGVKNDI INKSGAWYSYN	294
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NTDB id 131677 NW93 RS18090 WP 004189458.1	SVRLDIRRIGS.....I.KKNDEV	IGNETRVKVVKNKVSPPFREAI FIDILYEGEGISRQGEIIDLGVQAKIVDKAGAWYSYS	303
NTDB id 1427 RS RS02760 WP 011000510.1	SVRLDIRRIGS.....I.KKGEV	VGNETKVVVKNKVAPPFRFAE FIDILYGA GVSREGEIIDLGV EAKVVEKSGAWYSYN	302
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	SVRLDIRRTGA.....I.KEGEV	VGNETRIKVVKNKIAAPFKEANTQIMYGGGFNREGELIDLGVKHKMVEKSGAWYSYN	293
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NTDB id 1205 PSJM300 05545 AFN77183.1	SVRLDIRRTGA.....V.KEGDEV	VGSETRVKNVKNKVAPPFRQAE FQILYGKG IYRNGEIIDLGVQQGLVEKSGAWAYK	293
consensus	*!!**!* *	* ** *****!*****!*****!***** *****!***** ***** *	***** ! !*****!

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NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA	..VNEEVPLDLGDELEIE	385
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NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIF	DEIDKQVRSKFGL	IDGEEVSEQDTEN	KKDE	PKKEEA	..VNEEVPLDLGDELEIE	385
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFA	DEIDHQVRVQFGL	IDGEEAAES	KKDE	VAQVDS	..VNEEVTLDLGDELEIE	381
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIF	DDIDHKVVRVQYGL	IEDNTEEKQSSKE	ETDEK	..ADKNLVLELDDTIELE		382
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NTDB id 115 BSU 16940 NP 389576.2	EERLGQG	RENAKQFLKENKDIM	LMIQEQIREHYGL	DNNGVVQQAEETQEEL	EFEE	E		348
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NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQG	KEKTIAYIAERP	MEQEIRDRVMAAIR	AGNAGEAPALAPAPAAP	EAA	EA		363
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGGQ	RENSKAFLENPEIA	DEITKAIQNSMG	IEGMIS	GSED	DEG	EE	343
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGGQ	RENAKALLKEDKALA	DEITLKI	KESIGSNEEIM	PLPD	EPL	EEME	347
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGGQ	RENAKALLKEDKALA	DEITLKI	KESIGSNEEIM	PLPD	EPL	EEME	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGGQ	RDITVKELIKDNPELA	EELAKIREKLQAK					343
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQG	KDNVRVWLKENPEIS	DEIDAKIRALNG	VEMHIT	EGTQDE	ETD	GER	348
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NTDB id 131677 NW93 RS18090 WP 004189458.1	GEKIGQG	KDNAREFLRENPEIA	REIENRIR	ESLGVAMPQ	GAGSEA	EIM	DEE	356
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQG	RDNCREFLRENAEL	AREIENKVREHL	GVTPMGA	VT	LAEEV	EED	352
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQG	KNNAVKWLKENPEIA	DKLEQEI	RNTLASNPNSV	LKATAS	DSN	DESDVEEFSEEEL	372
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQG	KANACKYLVKENPEIA	AKTLDKKL	REMLLN	PENMQ	LIAETSSAA	DDVEFGAVPEEF	354
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQG	KNNVIRYFEENNQIA	EIEIERN	IREQLLT	TKASDQ	TAA	HDETE	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQG	KNNVIRYFEENNQIA	EIEIERN	IREQLLT	TTGTNG	AVQ	IEDE	349
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQG	KANAACKYLENPEI	GQIEIEQQ	IRAKLL	VTSANT	KATPVA	EDL	347
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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
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NTDB id 194 SPR RS08825 WP 001085462.1	IEE	388
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NTDB id 499 SM12261 RS08315 WP 078228268.1	IEE	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IEE	384
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383
NTDB id 453 Spy49 1753c ACI62003.1	D..	378
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NTDB id 1313 DR RS12030 WP 010888966.1	...	363
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NTDB id 1211 C694 RS00795 WP 000963128.1	...	347
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NTDB id 1130 NGFG RS03960 WP 003688695.1	...	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	...	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	...	348
NTDB id 131677 NW93 RS18090 WP 004189458.1	...	356
NTDB id 1427 RS RS02760 WP 011000510.1	...	352
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	...	354
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349
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consensus

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 ≥ 50% conserved