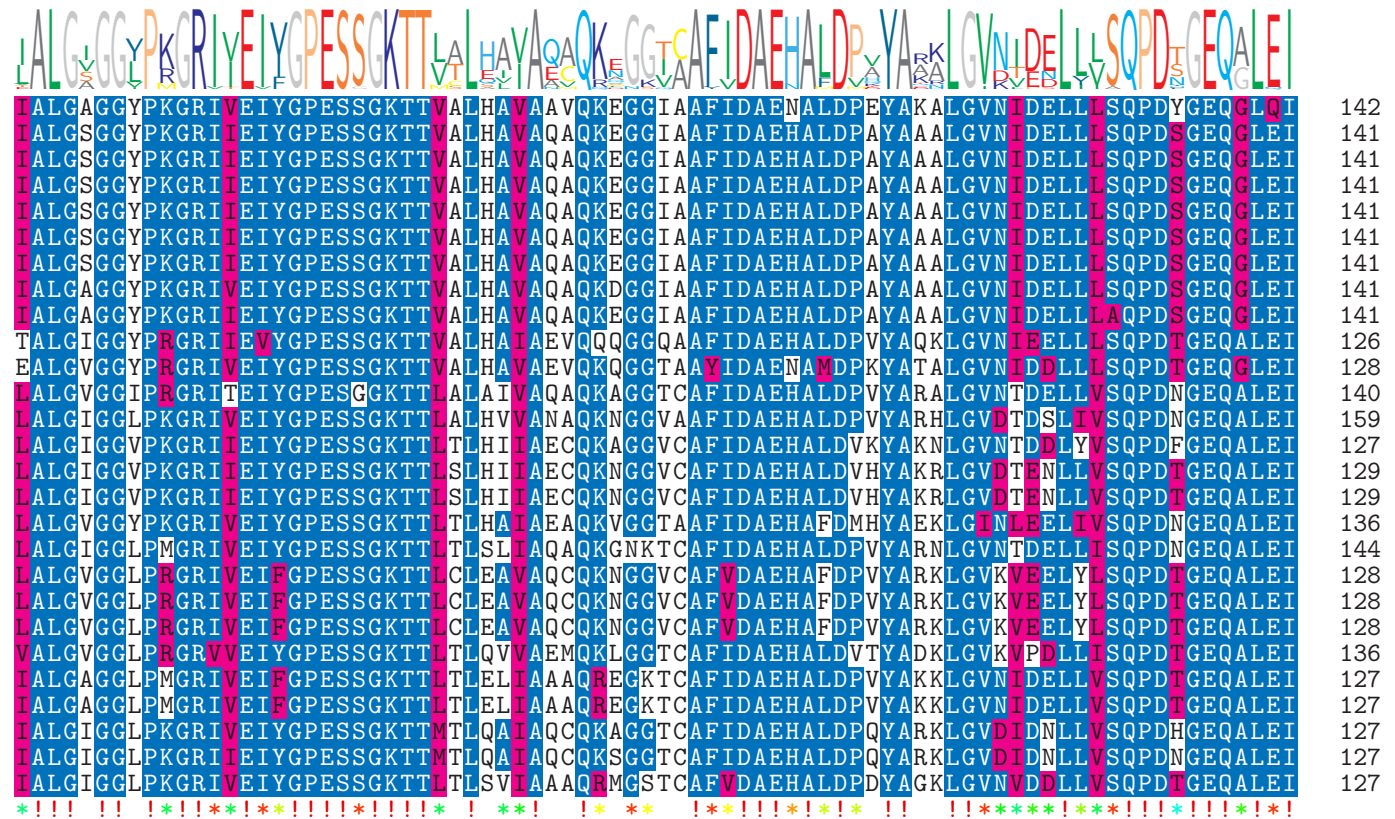


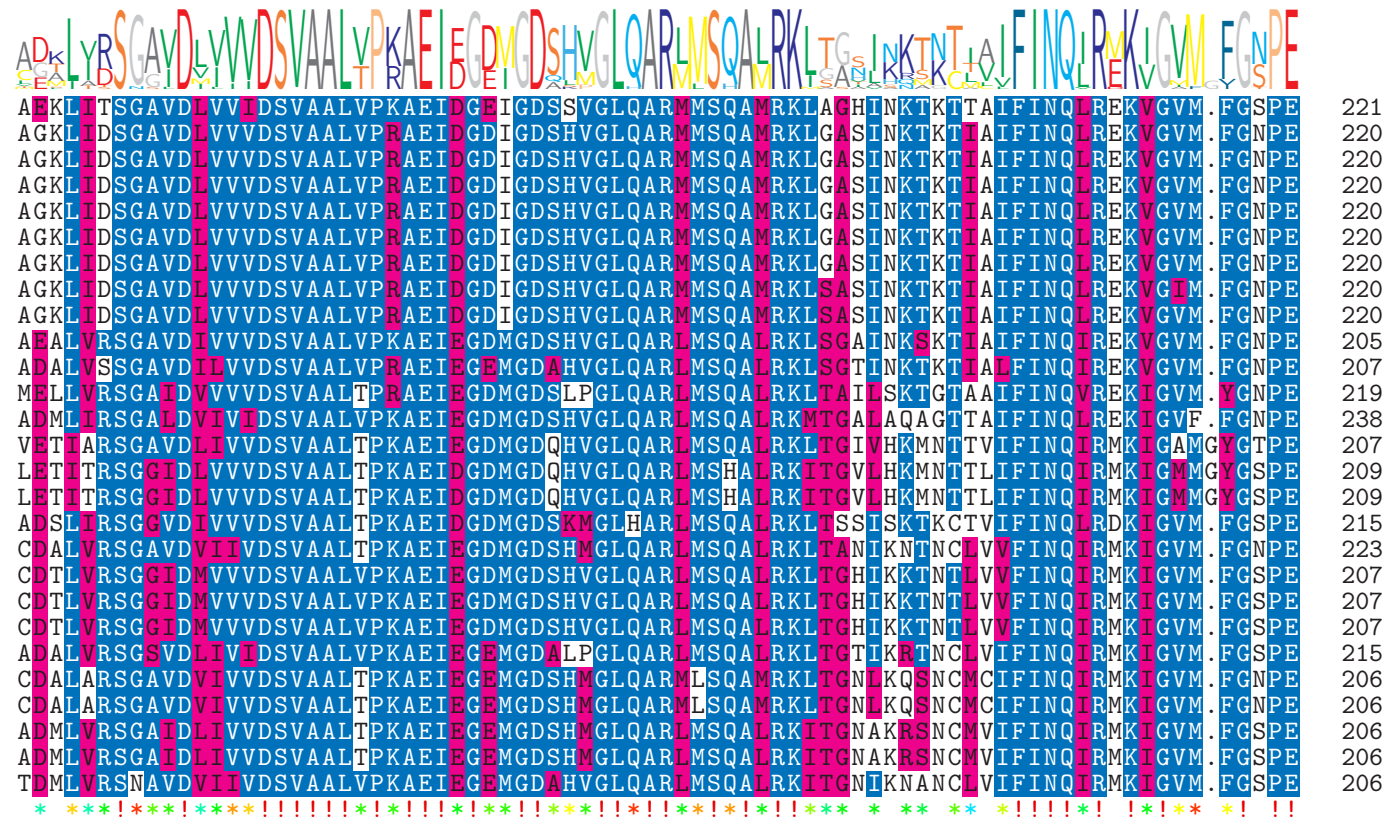
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NTDB id 269 KZH43 RS08665 WP 001085462.1	MAKKPKKLEEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGE	R	.AEQKVQVM	SS	SGSL	ALD	61			
NTDB id 228 SPD RS09265 WP 001085462.1	MAKKPKKLEEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGE	R	.AEQKVQVM	SS	SGSL	ALD	61			
NTDB id 194 SPR RS08825 WP 001085462.1	MAKKPKKLEEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGE	R	.AEQKVQVM	SS	SGSL	ALD	61			
NTDB id 159 SP RS09750 WP 001085462.1	MAKKPKKLEEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGE	R	.AEQKVQVM	SS	SGSL	ALD	61			
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NTDB id 499 SM12261 RS08315 WP 078228268.1	MAKKPKKLDEISKKFGA	ERE	KALNDALKL	IEKD	FGKGSIMRLGE	R	.AEQKVQVM	SS	SGSL	ALD	61			
NTDB id 408 SMU RS09530 WP 002262392.1	MAKRIKKTEEITKKFGD	ERR	KALDDALKN	IEKD	FGKGA	V	MRLGER	.AEQKVQVM	SS	SGSL	ALD	61		
NTDB id 453 Spy49 1753c ACI62003.1	MAKKLKKNEEITKKFGD	ERR	KALDDALKN	IEKD	FGKGA	V	MRLGER	.AEQKVQVM	SS	SGSL	ALD	61		
NTDB id 115 BSU 16940 NP 389576.2	MS	DRQAALDMALKQ	IEKQ	FGKGSIMKLGE	K	.TDTR	I	STVP	SGSL	ALD	46			
NTDB id 625 LCA RS02525 WP 011374196.1	MAKD	ERQAALDAALKK	IEKN	FGKGSIMRMGE	K	.VDTQVST	V	SS	SGSL	ALD	48			
NTDB id 1313 DR RS12030 WP 010888966.1	MSKDATKEISAPTD	AKERS	KATETAMS	QIEKA	FGKGSIMKLGA	E	.SKLDVQV	V	STGSL	SLD	60			
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NTDB id 1245 Cj1673c YP 002345041.1	MDDN	KRKS	LDALAKSL	DKT	FGKGTILRLG	DK	.EVEQ	I	DSIG	TGS	VGLD	47		
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDE	DKQKA	ISLAIKQ	IDKV	FGKGALVRLG	DK	.QVEK	I	DSI	TGSL	GLD	49		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDE	DKQKA	ISLAIKQ	IDKV	FGKGALVRLG	DK	.QVEK	I	DAI	STGSL	GLD	49		
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPND	DKK	KALAAVLEK	LDKT	YGKGTVMKLG	D	GTVDHN	I	EVIP	SGSL	GLD	56		
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NTDB id 1124 NGFG RS03960 WP 003688695.1	MSD	DKS	KALAAALA	QIEKS	FGKGA	IMKMDGS	Q	Q	EEEN	LEVI	STGSL	GLD	48	
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NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDEN	KQ	KALAAALG	QIEKQ	FGKGSIMRLG	DN	.RAMDVET	I	STGSL	SLD	47			
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDEN	KQ	KALAAALG	QIEKQ	FGKGSIMRLG	DN	.RAMDVET	I	STGSL	SLD	47			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDN	KS	KALQAALS	QIEKQ	FGKNTVMRLG	DN	.TVQAVEA	V	STGSL	TLD	47			
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDEN	KS	KALQAALS	QIEKQ	FGKNTVMRLG	DN	.TVQAVEA	V	STGSL	TLD	47			
NTDB id 1205 PSJM300 05545 AFN77183.1	MDEN	KK	RALAAALG	QIEKQ	FGKGA	V	MRMGDH	.DRQA	I	PSI	STGSL	GLD	47	
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NTDB id 600 KW2 RS01765 WP 011675413.1
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NTDB id 194 SPR RS08825 WP 001085462.1
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NTDB id 209970 BBIRT RS08705 WP 003820771.1
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NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 1389 A4U84 RS07560 WP 021112712.1
NTDB id 1130 NGFG RS03960 WP 003688695.1
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NTDB id 1074 ABD1 RS10195 WP 000344167.1
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NTDB id 600 KW2 RS01765 WP 011675413.1
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NTDB id 527 SMSK321 RS11065 WP 001085454.1	TTTGGRALKFYASVRLDVRG	STQIKGTG.DQKDTN	VGKETKIKVVKNKVAPPFKEA	FVEIMYEGEGISKTGELLKIASDLD	299
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NTDB id 408 SMU RS09530 WP 002262392.1	TTTGGRALKFYSSVRLDVRG	NTQIKGTG.EQKDSN	IGKETKIKVVKNKVAPPFKEA	FVEIITYEGEGISRTGELVKIASDLG	299
NTDB id 453 Spy49 1753c ACI62003.1	TTTGGRALKFYASVRLDVRG	TTQIKGTG.DQKDSS	IGKETKIKVVKNKVAPPFKEA	FVEIMYEGEGISRTGELVKIASDLD	299
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consensus	*! !! !!!!!*!!*!!*!		* ** *****!!*!!*!!*!	* *****!!*!!*!!* ***** *	

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NTDB id 228 SPD RS09265 WP 001085462.1	I I K K A G A W Y S Y K D E K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F G L I D G E E V S E Q D T E N K K D E P K K E E A . . V N E E	373
NTDB id 194 SPR RS08825 WP 001085462.1	I I K K A G A W Y S Y K D E K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F G L I D G E E V S E Q D T E N K K D E P K K E E A . . V N E E	373
NTDB id 159 SP RS09750 WP 001085462.1	I I K K A G A W Y S Y K D E K I G Q G S E N A K K Y L A E H P E I F D E I D K Q V R S K F G L I D G E E V S E Q D T E N K K D E P K K E E A . . V N E E	373
NTDB id 527 SMSK321 RS11065 WP 001085454.1	I I K K A G A W Y S Y K D E K I G Q G S E N A K K Y L A D N P E V F A E I D H Q V R V Q F G L I D G E E A A E S K K D E V A Q V D S . . V N E E	369
NTDB id 499 SM12261 RS08315 WP 078228268.1	I I K K A G A W Y S Y K D E K I G Q G S E N A K K Y L A D N P E I F D E I D H Q V R V Q F G L I D G E E I A E S K K D E A A Q V D S . . V N E E	369
NTDB id 408 SMU RS09530 WP 002262392.1	I I Q K A G A W Y S Y N G E K I G Q G S E N A K K F L A D N P E I F D D I D H K V R V Q Y G L I E E D N T E E K Q S S K E K E T D E K A D K N	370
NTDB id 453 Spy49 1753c ACI62003.1	I I Q K A G A W F S Y N G E K I G Q G S E N A K R Y L A D H P Q L F D E I D R K V R V K F G L L E E S E E S A M A V A S E E T D D	365
NTDB id 115 BSU 16940 NP 389576.2	I V Q K S G S W S Y S E E E R L G Q G R E N A K Q F L K E N K D I M L M I Q E Q I R E H Y G L D N N G V V Q Q A E E T Q E E L . E F E . E	348
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NTDB id 1313 DR RS12030 WP 010888966.1	I I K K A G S F Y S Y G D E R I G Q G K E K T I A Y T A E R P E M E Q E I R D R V M A A I R A G N A G E A P . A L A . . P A P A A P E A A E	362
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NTDB id 1214 NCTC11637 00359 SQJ03206.1	I V D K S G A W L S Y Q D K K L G Q G R E N A K A L L K E D K A L A D E I T L K I K E S I G S N E E I M P L P D E . . P L E E M . E	347
NTDB id 1334 RAOC RS04870 WP 004918236.1	I I Q K S G S W F S Y Q D T K L G Q G R D T V K E L I K D N P E L A E E L E A K I R E K L Q A K	343
NTDB id 1389 A4U84 RS07560 WP 021112712.1	F I K K S G A W F S Y D G T K I G Q G K N N A V K W L K E N P E I A D K L E Q E I R N T L A S N P N S V L K A T A S D S N D E S . D V E E F S E E L	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	I I N K S G A W S Y N G A K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I T E G T Q D E T D G E R P E E	348
NTDB id 1124 NGFG RS03960 WP 003688695.1	I I N K S G A W S Y N G A K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I T E G T Q D E T D G E R P E E	348
NTDB id 1123 OK783 RS03845 WP 003688695.1	I I N K S G A W S Y N G A K I G Q G K D N V R V W L K E N P E I S D E I D A K I R A L N G V E M H I T E G T Q D E T D G E R P E E	348
NTDB id 1427 RS RS02760 WP 011000510.1	V V E K S G A W S Y N G E R I G Q G R D N C R E F L R E N A E L A R E I E N K V R E H L G V T P M G A V T L A . E E V E E D	352
NTDB id 1165 A1552VC RS01565 WP 000344154.1	M V E K S G A W S Y N G D K I G Q G K A N A C K Y L K E N P E I A K T L D K K L R E M L L N P E N M Q L I A E T S S A A D D V . E F G A V P E E F	354
NTDB id 1142 GTF74 RS11550 WP 000344154.1	M V E K S G A W S Y N G D K I G Q G K A N A C K Y L K E N P E I A K T L D K K L R E M L L N P E N M Q L I A E T S S A A D D V . E F G A V P E E F	354
NTDB id 1022 ACIAD RS06390 WP 004925639.1	I V Q K A G A W S Y Q G N K I G Q G K N N V I R Y F E E N N Q I A E E I E R N I R E Q L L T T G T N G A V Q . I . E D E E E P . D L L . . L E S	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	I V Q K A G A W S Y Q G N K I G Q G K N N V I R Y F E E N N Q I A E E I E R N I R E Q L L T T G T N G A V Q . I . E D E E E P . D L L . . L E S	349
NTDB id 1205 PSJM300 05545 AFN77183.1	L V E K S G A W Y A Y K G S K I G Q G K A N A A K Y L E E N P E I G Q E I E Q Q I R A K L L V T S A N T K A T P V A E D L A D A . D I	347
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NTDB	id	600	KW2 RS01765 WP 011675413.1	IELELED.....	387
NTDB	id	269	KZH43 RS08665 WP 001085462.1	VPLDLGDELEIEIEE	388
NTDB	id	228	SPD RS09265 WP 001085462.1	VPLDLGDELEIEIEE	388
NTDB	id	194	SPR RS08825 WP 001085462.1	VPLDLGDELEIEIEE	388
NTDB	id	159	SP RS09750 WP 001085462.1	VPLDLGDELEIEIEE	388
NTDB	id	527	SMSK321 RS11065 WP 001085454.1	VTLDLGDELEIEIEE	384
NTDB	id	499	SM12261 RS08315 WP 078228268.1	VTLDLGDELEIEIEE	384
NTDB	id	408	SMU RS09530 WP 002262392.1	LVLELDDTIELED..	383
NTDB	id	453	Spy49 1753c ACI62003.1	LALDLNNGIEIED..	378
NTDB	id	115	BSU 16940 NP 389576.2	.....	348
NTDB	id	625	LCA RS02525 WP 011374196.1	.....	355
NTDB	id	1313	DR RS12030 WP 010888966.1	A.....	363
NTDB	id	209970	BBIRT RS08705 WP 003820771.1	SPAA.....	396
NTDB	id	1245	Cj1673c YP 002345041.1	.....	343
NTDB	id	1211	C694 RS00795 WP 000963128.1	.....	347
NTDB	id	1214	NCTC11637 00359 SQJ03206.1	.....	347
NTDB	id	1334	RAOC RS04870 WP 004918236.1	.....	343
NTDB	id	1389	A4U84 RS07560 WP 021112712.1	.....	372
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	1427	RS RS02760 WP 011000510.1	.....	352
NTDB	id	1165	A1552VC RS01565 WP 000344154.1	.....	354
NTDB	id	1142	GTF74 RS11550 WP 000344154.1	.....	354
NTDB	id	1022	ACIAD RS06390 WP 004925639.1	.....	349
NTDB	id	1074	ABD1 RS10195 WP 000344167.1	.....	349
NTDB	id	1205	PSJM300 05545 AFN77183.1	.....	347
consensus					

- X non conserved
- X similar
- X $\geq 50\%$ conserved