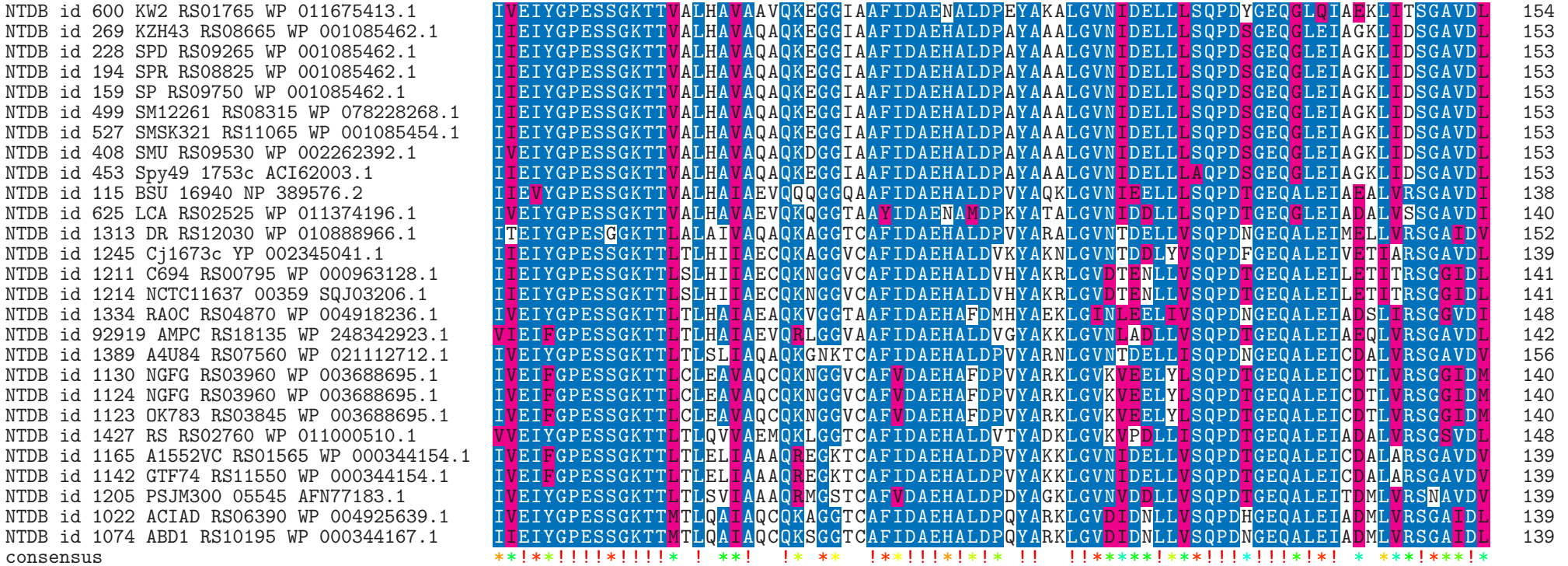


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NTDB id 600	KW2 RS01765 WP 011675413.1	.MATK.....KKTNFDDITKKYGA	ERDKALADALALIEKD	FGKGSIMRLGEA	.ANQKVS	VSSGSLALDI	ALGAGGYP	KGR	74	
NTDB id 269	KZH43 RS08665 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYP	KGR	73	
NTDB id 228	SPD RS09265 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYP	KGR	73	
NTDB id 194	SPR RS08825 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYP	KGR	73	
NTDB id 159	SP RS09750 WP 001085462.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYP	KGR	73	
NTDB id 499	SM12261 RS08315 WP 078228268.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYP	KGR	73	
NTDB id 527	SMSK321 RS11065 WP 001085454.1	.MAK.....KPKKLEEISKKFGA	EREKALNDALKLIEKD	FGKGSIMRLGER	.AEQKVQ	VMSGSLALDI	ALGSGGYP	KGR	73	
NTDB id 408	SMU RS09530 WP 002262392.1	.MAK.....RIKKTTEEITKKFGD	ERRKALDDALKNI	IEKDFGKGAV	MRRLGER	.AEQKVQ	VMSGSLALDI	ALGAGGYP	KGR	
NTDB id 453	Spy49 1753c ACI62003.1	.MAK.....KLKKNEEITKKFGD	ERRKALDDALKNI	IEKDFGKGAV	MRRLGER	.AEQKVQ	VMSGSLALDI	ALGAGGYP	KGR	
NTDB id 115	BSU 16940 NP 389576.2	.....MS	DRQAALDMALKQ	IEKQFGKGSIM	KLGEK	.TDTRIST	VPVSGSLALDI	TALGIGGYP	PRGR	
NTDB id 625	LCA RS02525 WP 011374196.1	.....MAK	ERQAALDAALKK	IEKNFGKGSIM	RMGEK	.VDTQV	STVSSGSLALDE	ALGVGGYP	PRGR	
NTDB id 1313	DR RS12030 WP 010888966.1	.....MSK	DATKEISAP	TDAKERSKAT	TETAM	SQIEKAF	FGKGSIMKLGA	E.SKLDV	QVVSTGSLSLDLALGVGGI	
NTDB id 1245	Cj1673c YP 002345041.1	.....MDD	NKRKSLDAALKS	LDKT	FGKGTIL	RLGD	K.EVEQID	SIGTGSV	GDLALGIGGVP	
NTDB id 1211	C694 RS00795 WP 000963128.1	.....MA	IDEKQKAI	ISLAIKQ	IDKV	FGKGA	LVR	LGDK.QVEK	IDSISTGSLGLDLALGIGGVP	
NTDB id 1214	NCTC11637 00359 SQJ03206.1	.....MA	IDEKQKAI	ISLAIKQ	IDKV	FGKGA	LVR	LGDK.QVEK	IDSISTGSLGLDLALGIGGVP	
NTDB id 1334	RAOC RS04870 WP 004918236.1	.....MAK	.TETTSP	NDDKKA	LAAVLEK	LDKT	YGKGTVM	KLGD	GTV	
NTDB id 92919	AMP RS18135 WP 248342923.1	.....MG	KLTAKM	KALTA	AVG	IEKQ	FGKGSIM	RLGEEA	AGPIPV	
NTDB id 1389	A4U84 RS07560 WP 021112712.1	.MAENK	KSSKNNT.VVK	QVEPE	QKKQA	LEA	AAALQIEKQ	FGKGSIM	KL	
NTDB id 1130	NGFG RS03960 WP 003688695.1	.....MSD	DKSKA	LAAALQ	IEKS	FGKGA	IMKMD	GSGQ	EEENLE	
NTDB id 1124	NGFG RS03960 WP 003688695.1	.....MSD	DKSKA	LAAALQ	IEKS	FGKGA	IMKMD	GSGQ	EEENLE	
NTDB id 1123	OK783 RS03845 WP 003688695.1	.....MSD	DKSKA	LAAALQ	IEKS	FGKGA	IMKMD	GSGQ	EEENLE	
NTDB id 1427	RS RS02760 WP 011000510.1	.MEDG.....K	KAASMSA	EKQK	ALAAALQ	IEKQ	FGKGSIM	MGDA	.EVEPV	
NTDB id 1165	A1552VC RS01565 WP 000344154.1	.....MD	ENKQK	ALAAALG	QIEKQ	FGKGSIM	RLGDN	.RAMD	VETIST	
NTDB id 1142	GTF74 RS11550 WP 000344154.1	.....MD	ENKQK	ALAAALG	QIEKQ	FGKGSIM	RLGDN	.RAMD	VETIST	
NTDB id 1205	PSJM300 05545 AFN77183.1	.....MD	ENKQR	ALAAALG	QIEKQ	FGKGA	VM	MGD	H.DRQ	
NTDB id 1022	ACIAD RS06390 WP 004925639.1	.....MDD	NKSK	ALQAALS	SQIEKQ	FGKNT	VM	RLGDN	.TVQ	
NTDB id 1074	ABD1 RS10195 WP 000344167.1	.....MD	ENKSK	ALQAALS	SQIEKQ	FGKNT	VM	RLGDN	.TVQ	
consensus				* * * *	* * *	* * *	* * * * !	* ! * ! * ! * ! * ! * ! * !	*	* * * * ! * ! * ! * ! * ! * ! * ! * ! * ! * ! * !

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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 408 SMU RS09530 WP 002262392.1
NTDB id 453 Spy49 1753c ACI62003.1
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 1245 Cj1673c YP 002345041.1
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NTDB id 1214 NCTC11637 00359 SQJ03206.1
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NTDB id 92919 AMPC RS18135 WP 248342923.1
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NTDB id 1130 NGFG RS03960 WP 003688695.1
NTDB id 1124 NGFG RS03960 WP 003688695.1
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
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NTDB id 1022 ACIAD RS06390 WP 004925639.1
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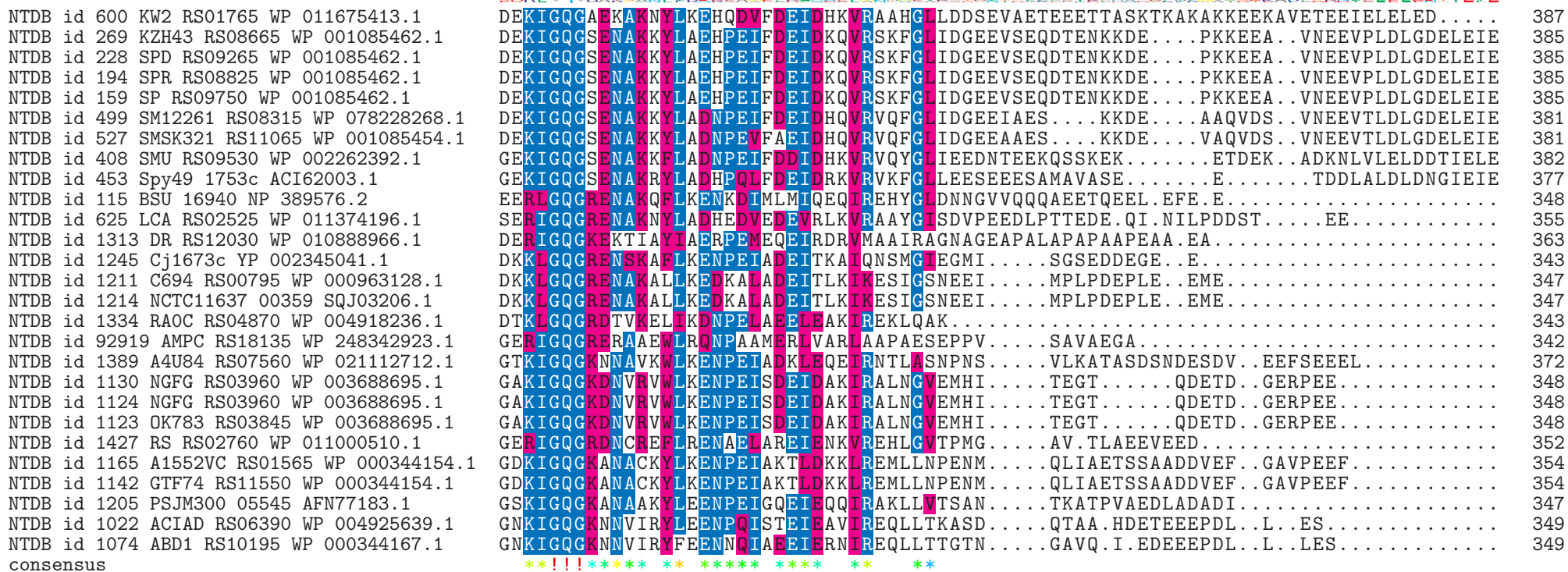


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SVRLDVRKIG....QPTKVGND... 307
SVRLDVRKVA....TL.KQN... 294
SVRIDIRRIA....SL.KQN... 296
SVRIDIRRIA....AL.KQN... 296
SVRIDIRRLS...T...GKIKDKS... 307
SVRLDIRRIG....QV.KEG... 296
SVRLDIRRCG....VV.KGD... 310
SVRLDIRRTG....SI.KKG... 294
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SVRLDIRRTG....AV.KEG... 293
SVRLDIRRIG....QV.KEG... 293
SVRLDIRRIG....QV.KEG... 293

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NTDB id 600 KW2 RS01765 WP 011675413.1	...	387
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
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
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	...	363
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NTDB id 1142 GTF74 RS11550 WP 000344154.1	...	354
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349
NTDB id 1074 ABD1 RS10195 WP 000344167.1	...	349

consensus

X non conserved  
X similar  
X ≥ 50% conserved