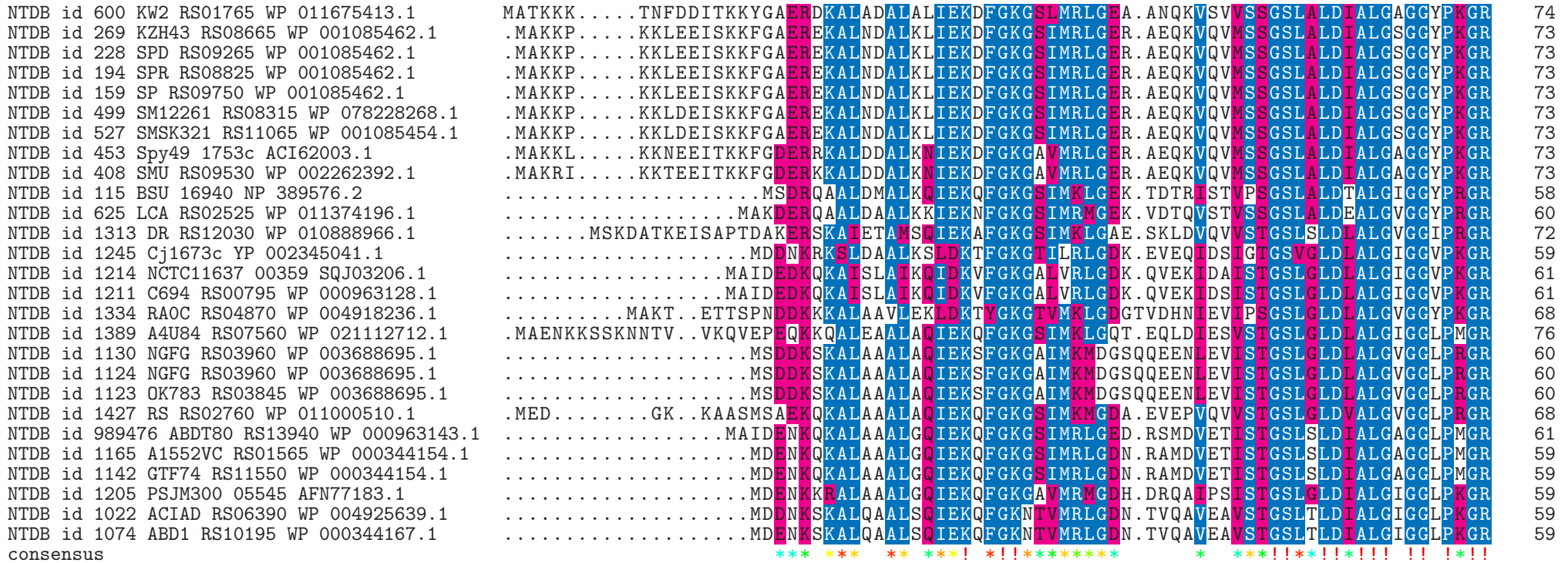


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NTDB id 600 KW2 RS01765 WP 011675413.1	IVEIYGPESGKTTVALHAVA	AVQKEGGIAAFIDAEHALDP	YAKALGVMIDELLSQPDYGEQGLQIAEKLITSGAVD	154	
NTDB id 269 KZH43 RS08665 WP 001085462.1	IVEIYGPESGKTTVALHAVA	QAQKEGGIAAFIDAEHALDP	YAAALGVMIDELLSQPDSGEQGLEIAGKLIDSGAVD	153	
NTDB id 228 SPD RS09265 WP 001085462.1	IVEIYGPESGKTTVALHAVA	QAQKEGGIAAFIDAEHALDP	YAAALGVMIDELLSQPDSGEQGLEIAGKLIDSGAVD	153	
NTDB id 194 SPR RS08825 WP 001085462.1	IVEIYGPESGKTTVALHAVA	QAQKEGGIAAFIDAEHALDP	YAAALGVMIDELLSQPDSGEQGLEIAGKLIDSGAVD	153	
NTDB id 159 SP RS09750 WP 001085462.1	IVEIYGPESGKTTVALHAVA	QAQKEGGIAAFIDAEHALDP	YAAALGVMIDELLSQPDSGEQGLEIAGKLIDSGAVD	153	
NTDB id 499 SM12261 RS08315 WP 078228268.1	IVEIYGPESGKTTVALHAVA	QAQKEGGIAAFIDAEHALDP	YAAALGVMIDELLSQPDSGEQGLEIAGKLIDSGAVD	153	
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IVEIYGPESGKTTVALHAVA	QAQKEGGIAAFIDAEHALDP	YAAALGVMIDELLSQPDSGEQGLEIAGKLIDSGAVD	153	
NTDB id 453 Spy49 1753c ACI62003.1	IVEIYGPESGKTTVALHAVA	QAQKEGGIAAFIDAEHALDP	YAAALGVMIDELLSQPDSGEQGLEIAGKLIDSGAVD	153	
NTDB id 408 SMU RS09530 WP 002262392.1	IVEIYGPESGKTTVALHAVA	QAQKDGIAAFIDAEHALDP	YAAALGVMIDELLSQPDSGEQGLEIAGKLIDSGAVD	153	
NTDB id 115 BSU 16940 NP 389576.2	IVEVYGPESGKTTVALHAVA	AEVQQQGGQAAAFIDAEHALDP	VYAQKLGVMIDELLSQPDYGEQALEIAEALVRSGAVD	138	
NTDB id 625 LCA RS02525 WP 011374196.1	IVEIYGPESGKTTVALHAVA	AEVQKGGTAAYIDAEHALDP	KYATALGVMIDELLSQPDYGEQGLEIADALVSSGAVD	140	
NTDB id 1313 DR RS12030 WP 010888966.1	ITEIYGPESGKTTVALAIV	AQAQKAGGTCFAFIDAEHALDP	VYARALGVMIDELLSQPDYGEQALEIMELLVRSGLD	152	
NTDB id 1245 Cj1673c YP 002345041.1	IVEIYGPESGKTTTLHLII	AECQKAGGVCFAFIDAEHALD	VKYAKNLGVMIDELLSQPDFGEQALEIVETIARSGAVD	139	
NTDB id 1214 NCTC11637 00359 SQJ03206.1	IVEIYGPESGKTTTLHLII	AECQKNGGVCFAFIDAEHALD	VHYAKRLGVDIENLLV	SQPDYGEQALEILETITRSGIDL	141
NTDB id 1211 C694 RS00795 WP 000963128.1	IVEIYGPESGKTTTLHLII	AECQKNGGVCFAFIDAEHALD	VHYAKRLGVDIENLLV	SQPDYGEQALEILETITRSGIDL	141
NTDB id 1334 RAOC RS04870 WP 004918236.1	IVEIYGPESGKTTTLHLII	AEAQKVGTAAFIDAEHALD	FMHYAEKLGINLEELV	SQPDYGEQALEIADSLTRSGVD	148
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IVEIYGPESGKTTTLSLII	AQAQKGNKTCFAFIDAEHALD	PVYARNLGVMIDELLSQPDYGEQALEICDALVRSGAVD	156	
NTDB id 1130 NGFG RS03960 WP 003688695.1	IVEIFGPESGKTTLCLEAVA	QCQKNGGVCFAFVDAEHAFDP	VYARKLGVMIDELLSQPDYGEQALEICDILVRSGIDM	140	
NTDB id 1124 NGFG RS03960 WP 003688695.1	IVEIFGPESGKTTLCLEAVA	QCQKNGGVCFAFVDAEHAFDP	VYARKLGVMIDELLSQPDYGEQALEICDILVRSGIDM	140	
NTDB id 1123 OK783 RS03845 WP 003688695.1	IVEIFGPESGKTTLCLEAVA	QCQKNGGVCFAFVDAEHAFDP	VYARKLGVMIDELLSQPDYGEQALEICDILVRSGIDM	140	
NTDB id 1427 RS RS02760 WP 011000510.1	IVEIYGPESGKTTTLQVVA	EMQKLGTCFAFIDAEHALD	VTYADKLGVMIDELLSQPDYGEQALEIADALVRSGVD	148	
NTDB id 989476 ABDT80 RS13940 WP 000963143.1	IVEIYGPESGKTTTLQVVA	AAQREGKTCFAFIDAEHALD	PVYARKLGVDIDNLLV	SQPDYGEQALEICDALARSGAVD	141
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IVEIFGPESGKTTTLELII	AAAQREGKTCFAFIDAEHALD	PVYAKKLGVMIDELLSQPDYGEQALEICDALARSGAVD	139	
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IVEIFGPESGKTTTLELII	AAAQREGKTCFAFIDAEHALD	PVYAKKLGVMIDELLSQPDYGEQALEICDALARSGAVD	139	
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	IVEIYGPESGKTTMTLQAI	AQCQKAGGTCFAFIDAEHALD	PVYARKLGVDIDNLLV	SQPDYGEQALEIADMLVRSGIDL	139
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IVEIYGPESGKTTMTLQAI	AQCQKSGGTCFAFIDAEHALD	PVYARKLGVDIDNLLV	SQPDYGEQALEIADMLVRSGIDL	139
consensus	**!***!!!!*!!!!*! **! !* ** !***!!!!*!* !! !!*****!****!!!!*!!!!*!* * **!****!*				

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NTDB id 600 KW2 RS01765 WP 011675413.1	VV	I	D	S	V	A	A	L	V	P	K	A	E	I	D	G	E	I	G	D	S	S	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	A	G	H	I	N	K	T	K	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	S	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	233				
NTDB id 269 KZH43 RS08665 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232			
NTDB id 228 SPD RS09265 WP 001085462.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	G	A	S	I	N	K	T	K	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232			
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NTDB id 453 Spy49 1753c ACI62003.1	V	V	V	D	S	V	A	A	L	V	P	R	A	E	I	D	G	D	I	G	D	S	H	V	G	L	Q	A	R	M	S	Q	A	M	R	K	L	S	A	S	I	N	K	T	K	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	232			
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NTDB id 115 BSU 16940 NP 389576.2	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	A	I	N	K	S	K	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	P	G	G	R	A	L	K	F	Y	A	217		
NTDB id 625 LCA RS02525 WP 011374196.1	L	V	V	D	S	V	A	A	L	V	P	R	A	E	I	E	G	M	G	D	A	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	S	G	T	I	N	K	T	K	T	A	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	V	T	P	G	G	R	A	L	K	F	Y	A	219			
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NTDB id 1211 C694 RS00795 WP 000963128.1	V	V	V	D	S	V	A	A	L	T	P	K	A	E	I	D	G	D	M	G	D	S	K	M	G	L	H	A	R	L	M	S	Q	A	L	R	K	L	T	S	S	I	S	K	T	K	C	T	V	I	F	I	N	Q	L	R	D	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	227	
NTDB id 1334 RAOC RS04870 WP 004918236.1	I	I	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	D	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	A	N	I	K	N	T	N	C	L	V	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	235
NTDB id 1130 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	219
NTDB id 1124 NGFG RS03960 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	219
NTDB id 1123 OK783 RS03845 WP 003688695.1	V	V	V	D	S	V	A	A	L	V	P	K	A	E	I	E	G	D	M	G	D	S	H	V	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	H	I	K	K	T	N	T	L	V	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	219
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NTDB id 989476 ABDT80 RS13940 WP 000963143.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	I	G	D	S	H	M	G	L	A	A	R	M	S	Q	A	M	R	K	L	A	G	N	L	K	Q	S	N	T	L	L	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	N	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	220		
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NTDB id 1022 ACIAD RS06390 WP 004925639.1	I	V	V	D	S	V	A	A	L	T	P	K	A	E	I	E	G	E	M	G	D	S	H	M	G	L	Q	A	R	L	M	S	Q	A	L	R	K	L	T	G	N	A	K	R	S	N	C	M	V	I	F	I	N	Q	L	R	M	K	I	G	V	M	.	F	G	S	P	E	T	T	P	G	G	N	A	L	K	F	Y	A	218	
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consensus
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