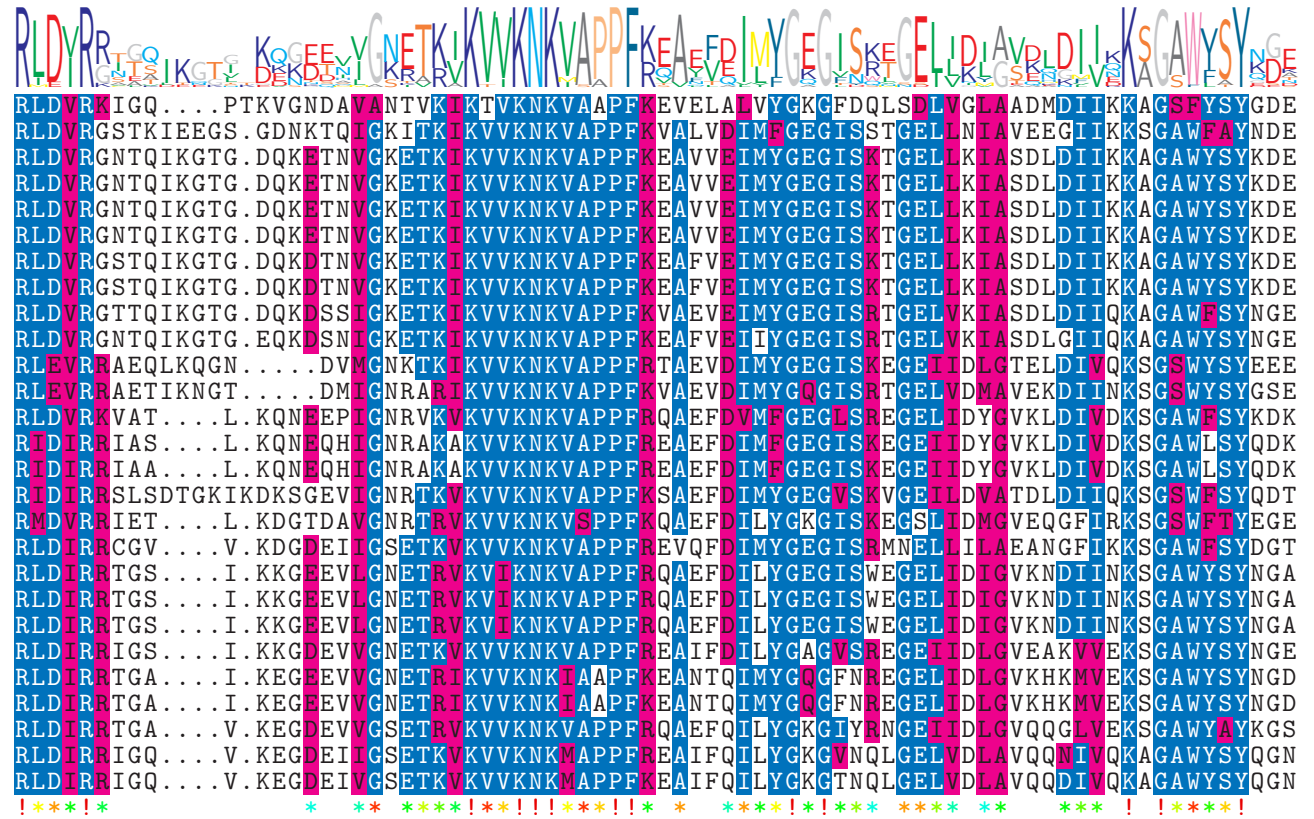


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NTDB id 1313 DR RS12030 WP 010888966.1
 NTDB id 600 KW2 RS01765 WP 011675413.1
 NTDB id 269 KZH43 RS08665 WP 001085462.1
 NTDB id 228 SPD RS09265 WP 001085462.1
 NTDB id 194 SPR RS08825 WP 001085462.1
 NTDB id 159 SP RS09750 WP 001085462.1
 NTDB id 499 SM12261 RS08315 WP 078228268.1
 NTDB id 527 SMSK321 RS11065 WP 001085454.1
 NTDB id 453 Spy49 1753c ACI62003.1
 NTDB id 408 SMU RS09530 WP 002262392.1
 NTDB id 115 BSU 16940 NP 389576.2
 NTDB id 625 LCA RS02525 WP 011374196.1
 NTDB id 1245 Cj1673c YP 002345041.1
 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 78906 G6N34 RS13970 WP 085152588.1
 NTDB id 1389 A4U84 RS07560 WP 021112712.1
 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
 NTDB id 1205 PSJM300 05545 AFN77183.1
 NTDB id 1022 ACIAD RS06390 WP 004925639.1
 NTDB id 1074 ABD1 RS10195 WP 000344167.1
 consensus



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NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGK	EKTIA	YIA	ERP	EMEQ	EIR	DRV	MAAIR	AGNAGE	APALAP	PAPAA	PEAAEA	363																																												
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGA	EAKAK	NKYLK	EHQ	DV	FDEI	DHKV	RAAHG	L	LLD	SEVA	ETE	EETT	ASKTK	KAKAK	KKEEK	AVETEE	EIELE	ED	.....	387																																					
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGS	ENAKKY	LAEH	PEI	F	DEI	DKQ	VR	SKF	G	L	IDG	EEV	SEQ	D	TEN	KK	DE	....	PKKEEA	..	VNEEV	PLDL	GDE	LE	IE	IE	387																														
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGS	ENAKKY	LAEH	PEI	F	DEI	DKQ	VR	SKF	G	L	IDG	EEV	SEQ	D	TEN	KK	DE	....	PKKEEA	..	VNEEV	PLDL	GDE	LE	IE	IE	387																														
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGS	ENAKKY	LAEH	PEI	F	DEI	DKQ	VR	SKF	G	L	IDG	EEV	SEQ	D	TEN	KK	DE	....	PKKEEA	..	VNEEV	PLDL	GDE	LE	IE	IE	387																														
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGS	ENAKKY	LAEH	PEI	F	DEI	DKQ	VR	SKF	G	L	IDG	EEV	SEQ	D	TEN	KK	DE	....	PKKEEA	..	VNEEV	PLDL	GDE	LE	IE	IE	387																														
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGS	ENAKKY	LAD	N	PEI	F	DEI	DH	Q	VR	V	Q	F	G	L	IDG	EE	I	A	E	S	KK	DE	AA	Q	V	D	S	..	VNEEV	T	LDL	G	DE	LE	IE	IE	383																			
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGS	ENAKKY	LAD	N	PEI	F	DEI	DH	Q	VR	V	Q	F	G	L	IDG	EE	A	A	E	S	KK	DE	VA	Q	V	D	S	..	VNEEV	T	LDL	G	DE	LE	IE	IE	383																			
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGS	ENAKRY	LAD	H	P	Q	L	F	DEI	DR	K	VR	V	K	F	G	L	EE	S	E	E	E	S	A	M	A	V	A	S	E	E	T	D	L	A	L	D	L	D	N	G	I	E	I	E	D	..	378									
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGS	ENAKK	F	LAD	N	PEI	F	D	I	D	H	K	VR	V	Q	Y	G	L	I	E	E	D	N	T	E	E	K	S	S	K	E	K	E	T	D	E	K	..	A	D	K	N	L	V	L	E	L	D	D	T	I	E	L	E	D	..	383	
NTDB id 115 BSU 16940 NP 389576.2	RLGQGR	ENAKQ	F	L	K	E	N	K	D	I	M	L	I	Q	E	Q	I	R	E	H	Y	G	L	D	N	G	V	V	Q	Q	A	E	E	T	Q	E	E	L	..	E	F	E	..	E	348													
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGR	ENAKN	Y	LAD	H	E	D	V	E	D	E	V	R	L	K	V	R	A	A	Y	G	I	S	D	V	P	E	E	D	L	P	T	T	E	D	E	..	Q	I	..	N	I	L	P	D	D	S	T	E	E	355						
NTDB id 1245 Cj1673c YP 002345041.1	KL	G	Q	G	R	E	N	S	K	A	F	L	K	E	N	P	E	I	A	D	E	I	T	K	A	I	Q	N	S	M	G	I	E	G	M	I	S	G	S	E	D	D	E	G	..	E	E	343										
NTDB id 1211 C694 RS00795 WP 000963128.1	KL	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 1214 NCTC11637 00359 SQJ03206.1	KL	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	KL	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 78906 G6N34 RS13970 WP 085152588.1	QL	G	Q	G	K	E	N	A	R	N	F	L	L	S	N	P	E	T	A	D	E	I	E	K	K	I	K	E	K	L	G	I	G	A	V	M	T	D	D	L	A	D	..	D	V	L	P	A	P	V	D	F	349			
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGG	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	KIGQGD	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	KIGQGD	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	KIGQGD	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	RIGQGR	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	KIGQGG	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	KIGQGG	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 1205 PSJM300 05545 AFN77183.1	KIGQGG	K	A	N	A	A	K	Y	L	E	E	N	P	E	I	G	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									
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGG	K	N	N	V	I	R	Y	L	E	E	N	P	Q	I	S	T	E	I	E	A	V	I	R	E	Q	L	L	T	K	A	S	D	Q	T	A	A	..	H	D	E	T	E	E	E	P	..	D	L	..	E	S	349					
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGG	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	E	S	349				

consensus

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NTDB id 1313 DR RS12030 WP 010888966.1	.	363
NTDB id 600 KW2 RS01765 WP 011675413.1	.	387
NTDB id 269 KZH43 RS08665 WP 001085462.1	E	388
NTDB id 228 SPD RS09265 WP 001085462.1	E	388
NTDB id 194 SPR RS08825 WP 001085462.1	E	388
NTDB id 159 SP RS09750 WP 001085462.1	E	388
NTDB id 499 SM12261 RS08315 WP 078228268.1	E	384
NTDB id 527 SMSK321 RS11065 WP 001085454.1	E	384
NTDB id 453 Spy49 1753c ACI62003.1	.	378
NTDB id 408 SMU RS09530 WP 002262392.1	.	383
NTDB id 115 BSU 16940 NP 389576.2	.	348
NTDB id 625 LCA RS02525 WP 011374196.1	.	355
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 78906 G6N34 RS13970 WP 085152588.1	.	349
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.	372
NTDB id 1130 NGFG RS03960 WP 003688695.1	.	348
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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 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

non conserved
 similar
 ≥ 50% conserved