

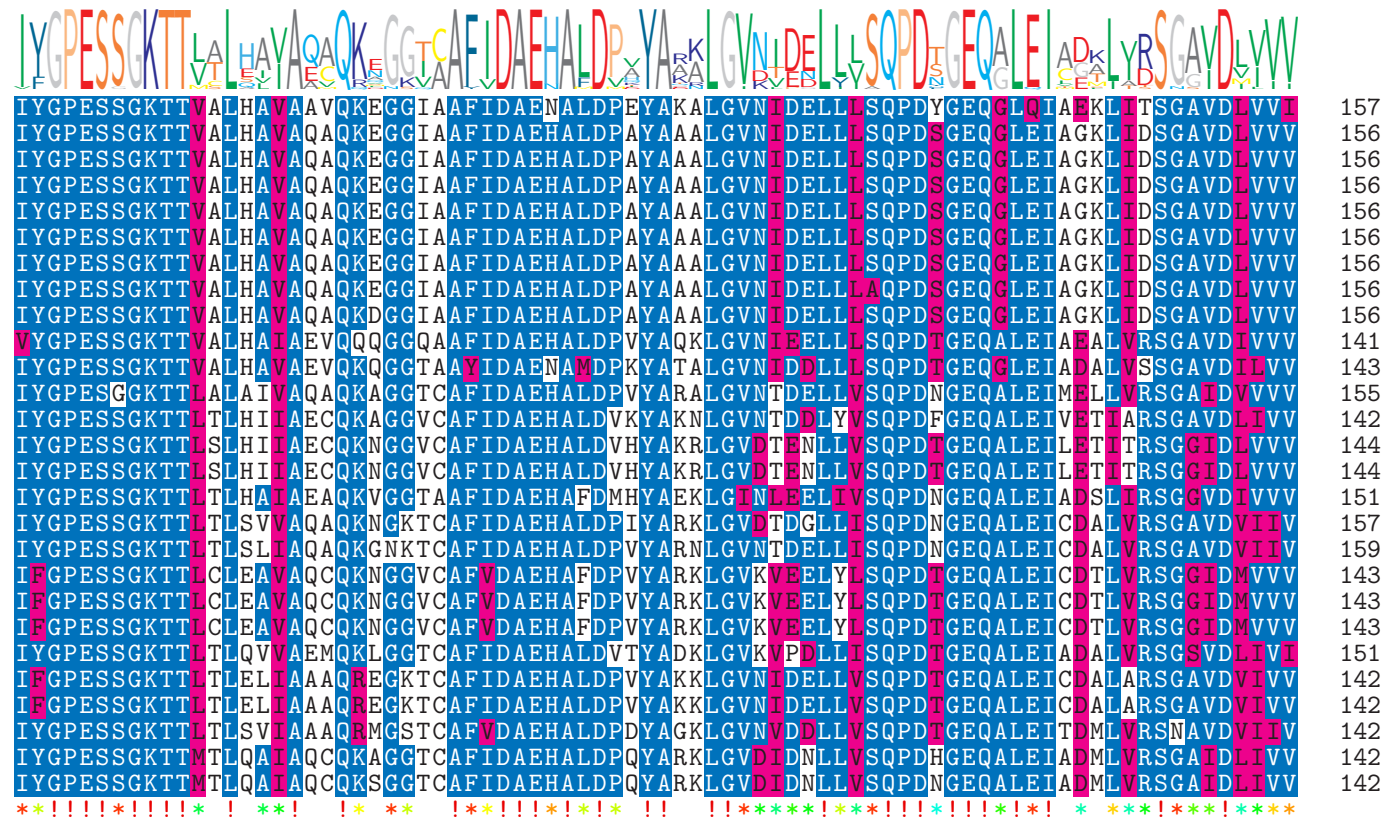
logo

NTDB id 600 KW2 RS01765 WP 011675413.1	.MATK.KKTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEA.ANQKVSVVSSGSLALDIALGAGGYPKGRIVE	77
NTDB id 269 KZH43 RS08665 WP 001085462.1	..MAK.KPKKLEEISKKFGEAREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 228 SPD RS09265 WP 001085462.1	..MAK.KPKKLEEISKKFGEAREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 194 SPR RS08825 WP 001085462.1	..MAK.KPKKLEEISKKFGEAREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 159 SP RS09750 WP 001085462.1	..MAK.KPKKLEEISKKFGEAREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 527 SMSK321 RS11065 WP 001085454.1	..MAK.KPKKLDEISKKFGEAREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 499 SM12261 RS08315 WP 078228268.1	..MAK.KPKKLDEISKKFGEAREKALNDALKLIEKDFGKGSIMRLGER.AEQKVQVMSSGSLALDIALGSGGYPKGRIVE	76
NTDB id 453 Spy49 1753c ACI62003.1	..MAK.KLKKNEEITKKFGERRRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE	76
NTDB id 408 SMU RS09530 WP 002262392.1	..MAK.RIKKTEEITKKFGERRKALDDALKNIEKDFGKGAVMRLGER.AEQKVQVMSSGSLALDIALGAGGYPKGRIVE	76
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEK.TDTRISTVPSGSLALDTALGIGGYPGRIVE	61
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEK.VDTQVSTVSSGSLALDEALGVGGYPGRIVE	63
NTDB id 1313 DR RS12030 WP 010888966.1	..MSK..DATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.SKLDVQVVSTGSLSLDLALGVGGIPGRITE	75
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIVE	62
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKALSLAIKQIDKVFVGKALVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIVE	64
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKALSLAIKQIDKVFVGKALVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIVE	64
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPNDDKKKALAAVLEKLDKTYGKGTVMKLGDTGTVDHNIEVIPSGSLGLDLALGVGGYPKGRIVE	71
NTDB id 200216 BG580 RS11720 WP 006249587.1	..MAEKKSQKNTPVKQIDPEQKEKALAAALAQIEKQFGKGSIMKLGDT.QALDIEAVSTGSLGLDSALGIGGLPMGRIVE	77
NTDB id 1389 A4U84 RS07560 WP 021112712.1	MAENKKSSKNNTTVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLGQT.EQLDIESVSTGSLGLDLALGIGGLPMGRIVE	79
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE	63
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE	63
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQEENLEVISTGSLGLDLALGVGGLPRGRIVE	63
NTDB id 1427 RS RS02760 WP 011000510.1	MEDGKKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVVE	71
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE	62
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDIALGAGGLPMGRIVE	62
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDIALGIGGLPKGRIVE	62
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDDNKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE	62
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIVE	62
consensus	*** ** *	

```

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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 200216 BG580 RS11720 WP 006249587.1
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

```



```

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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 200216 BG580 RS11720 WP 006249587.1
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

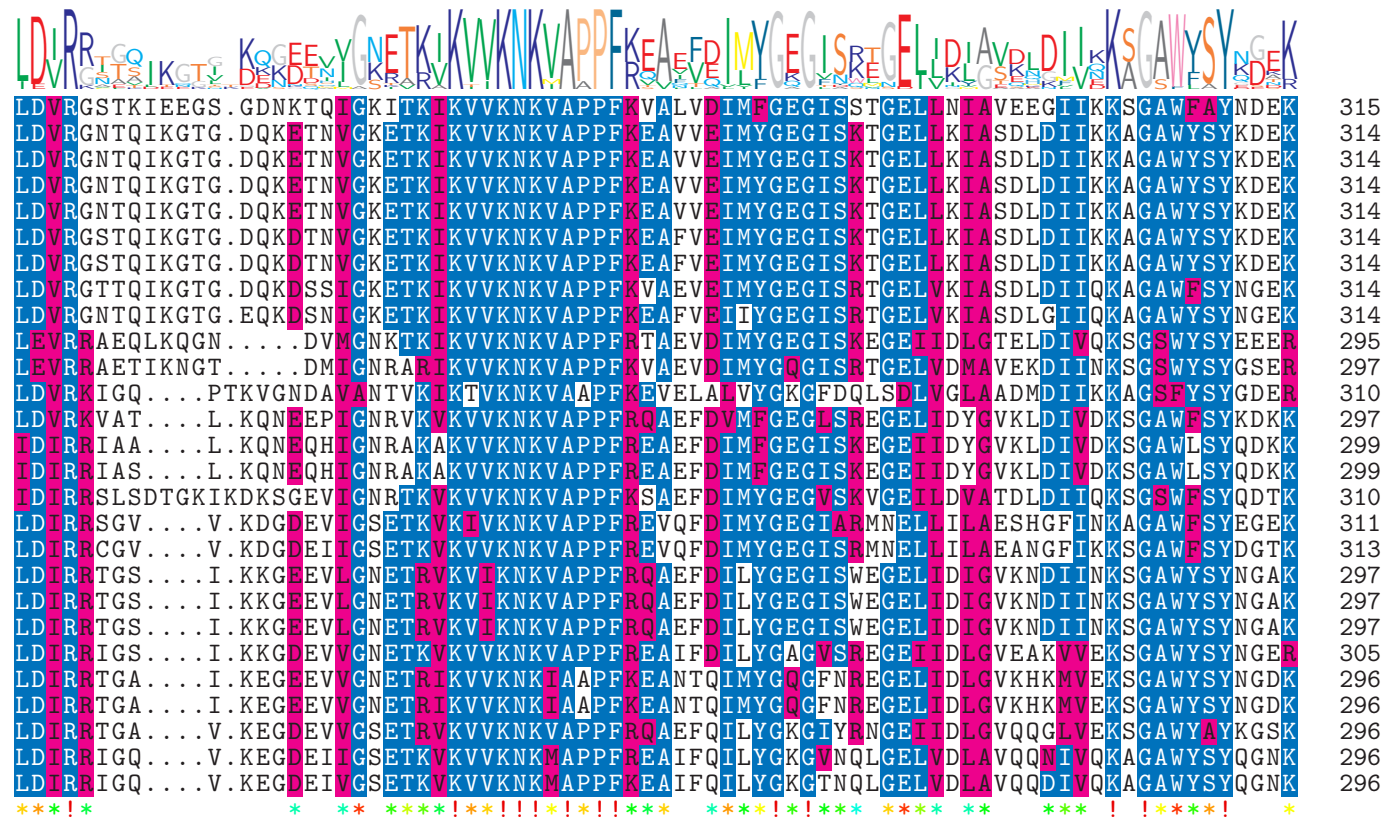
```

DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGASINKTKTIAIFINQIREKVGVM.FGSPETTGGNALKFYASVR	236
DSVAALVPRAEIDGDI GDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYASVR	235
DSVAALVPRAEIDGDI GDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYASVR	235
DSVAALVPRAEIDGDI GDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYASVR	235
DSVAALVPRAEIDGDI GDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYASVR	235
DSVAALVPRAEIDGDI GDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYASVR	235
DSVAALVPRAEIDGDI GDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYASVR	235
DSVAALVPRAEIDGDI GDSHVGLQARLMSQAMRKLGASINKTKTIAIFINQIREKVGIM.FGNPETTPGGRALKFYSSVR	235
DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGASINKSKTIAIFINQIREKVGVM.FGNPETTPGGRALKFYSSVR	220
DSVAALVPRAEIEGEMGDAHVGLQARLMSQALRKLTGINKTKTIAIFINQIREKVGVM.FGNPEVTPGGRALKFYSTVR	222
DSVAALTTPRAEIEGDMGDSLPLQARLMSQALRKLTALISKGTAAIFINQIREKVGVM.YGNPETTTGGRALKFYASVR	234
DSVAALTTPKAEIEGDMGDQHVGLQARLMSQALRKLTGIVHKMNTTVIFINQIRMKIGAMGYGTPETTGGNALKFYASVR	222
DSVAALTTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTGGNALKFYASVR	224
DSVAALTTPKAEIDGDMGDQHVGLQARLMSHALRKITGVLHKMNTTLIFINQIRMKIGMMGYGSPETTGGNALKFYASVR	224
DSVAALTTPKAEIDGDMGDSKMGLHARLMSQALRKLTSSISKTKCTVIFINQIRDKIGVM.FGSPETTGGNALKFYASVR	230
DSVAALTTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKATNCLVIFINQIRMKIGVM.FGNPETTTGGNALKFYASVR	236
DSVAALTTPKAEIEGDMGDSHMGLQARLMSQALRKLTANIKNTNCLVIFINQIRMKIGVM.FGNPETTTGGNALKFYASVR	238
DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVIFINQIRMKIGVM.FGSPETTGGNALKFYSSVR	222
DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVIFINQIRMKIGVM.FGSPETTGGNALKFYSSVR	222
DSVAALVPKAEIEGDMGDSHVGLQARLMSQALRKLTGHIKKTNTLVIFINQIRMKIGVM.FGSPETTGGNALKFYSSVR	222
DSVAALVPKAEIEGEMGDAALPGLQARLMSQALRKLTGTIKRTNCLVIFINQIRMKIGVM.FGSPETTGGNALKFYASVR	230
DSVAALTTPKAEIEGEMGDSHMGLQARLMSQAMRKLTGNLQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASVR	221
DSVAALTTPKAEIEGEMGDSHMGLQARLMSQAMRKLTGNLQSNCMCIFINQIRMKIGVM.FGNPETTTGGNALKFYASVR	221
DSVAALVPKAEIEGEMGDAHVGLQARLMSQALRKITGNIKNANCLVIFINQIRMKIGVM.FGSPETTGGNALKFYASVR	221
DSVAALTTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTGGNALKFYASVR	221
DSVAALTTPKAEIEGEMGDSHMGLQARLMSQALRKITGNAKRSNCMVIFINQIRMKIGVM.FGSPETTGGNALKFYASVR	221

```

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 527 SMSK321 RS11065 WP 001085454.1
NTDB id 499 SM12261 RS08315 WP 078228268.1
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 1313 DR RS12030 WP 010888966.1
NTDB id 1245 Cj1673c YP 002345041.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1334 RAOC RS04870 WP 004918236.1
NTDB id 200216 BG580 RS11720 WP 006249587.1
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

```



logo

NTDB id 600 KW2 RS01765 WP 011675413.1	IGQGA	E	K	A	K	N	Y	L	K	E	H	Q	D	V	F	D	E	I	D	H	K	V	R	A	A	H	G	L	D	D	S	E	V	A	E	T	E	E	T	T	A	S	K	T	K	A	K	A	K	K	E	E	K	A	V	E	T	E	E	I	E	L	E	D		387																																																																																																																																																																																																																																																																																																																	
NTDB id 269 KZH43 RS08665 WP 001085462.1	IGQGS	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	V	P	L	D	L	G	D	E	L	E	I	E	I	E	E		388																																																																																																																																																																																																																																																																																																									
NTDB id 228 SPD RS09265 WP 001085462.1	IGQGS	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	V	P	L	D	L	G	D	E	L	E	I	E	I	E	E		388																																																																																																																																																																																																																																																																																																									
NTDB id 194 SPR RS08825 WP 001085462.1	IGQGS	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	V	P	L	D	L	G	D	E	L	E	I	E	I	E	E		388																																																																																																																																																																																																																																																																																																									
NTDB id 159 SP RS09750 WP 001085462.1	IGQGS	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	V	P	L	D	L	G	D	E	L	E	I	E	I	E	E		388																																																																																																																																																																																																																																																																																																									
NTDB id 527 SMSK321 RS11065 WP 001085454.1	IGQGS	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	V	T	L	D	L	G	D	E	L	E	I	E	I	E	E		384																																																																																																																																																																																																																																																																																																												
NTDB id 499 SM12261 RS08315 WP 078228268.1	IGQGS	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	V	T	L	D	L	G	D	E	L	E	I	E	I	E	E		384																																																																																																																																																																																																																																																																																																												
NTDB id 453 Spy49 1753c ACI62003.1	IGQGS	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		E		T	D	D	L	A	L	D	L	N	G	I	E	I	E	D	..	378																																																																																																																																																																																																																																																																																																																			
NTDB id 408 SMU RS09530 WP 002262392.1	IGQGS	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	L	V	L	E	L	D	D	T	I	E	L	E	D	..	383																																																																																																																																																																																																																																																																																																														
NTDB id 115 BSU 16940 NP 389576.2	LGQGR	E	N	A	K	Q	F	L	K	E	N	K	D	I	M	L	M	I	Q	E	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		E		E		E		E		E		E		E		348																																																																																																																																																																																																																																																																																																																		
NTDB id 625 LCA RS02525 WP 011374196.1	IGQGR	E	N	A	K	N	Y	L	A	D	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		E		E		E		E		E		E		355																																																																																																																																																																																																																																																																																																												
NTDB id 1313 DR RS12030 WP 010888966.1	IGQGK	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	E	A	E	A		E		E		E		E		E		E		E		E		E		363																																																																																																																																																																																																																																																																																																																
NTDB id 1245 Cj1673c YP 002345041.1	LGQGR	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		E		E		E		E		E		E		E		E		E		343																																																																																																																																																																																																																																																																																																																			
NTDB id 1214 NCTC11637 00359 SQJ03206.1	LGQGR	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		E		E		E		E		E		E		E		E		347																																																																																																																																																																																																																																																																																																																			
NTDB id 1211 C694 RS00795 WP 000963128.1	LGQGR	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		E		E		E		E		E		E		E		E		347																																																																																																																																																																																																																																																																																																																			
NTDB id 1334 RAOC RS04870 WP 004918236.1	LGQGR	D	T	V	K	E	L	I	K	D	N	P	E	L	A	E	E	L	A	K	I	R	E	K	L	Q	A	K		E		E		E		E		E		E		E		E		E		E		E		E		E		E		E		E		E		343																																																																																																																																																																																																																																																																																																																			
NTDB id 200216 BG580 RS11720 WP 006249587.1	IGQGK	N	N	A	I	K	W	L	K	E	H	P	E	V	A	S	K	I	E	Q	D	I	R	N	L	L	I	S	N	P	T		F	T	A	T	P	..	D	S	E	N	A	D	N	A	D	..	E	F	S	E	E	E	L		E		E		E		E		E		E		E		E		368																																																																																																																																																																																																																																																																																																										
NTDB id 1389 A4U84 RS07560 WP 021112712.1	IGQGK	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	E	L		E		E		E		E		E		E		E		E		372																																																																																																																																																																																																																																																																																																								
NTDB id 1130 NGFG RS03960 WP 003688695.1	IGQGK	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		E		E		E		E		E		E		E		E		348																																																																																																																																																																																																																																																																																																															
NTDB id 1124 NGFG RS03960 WP 003688695.1	IGQGK	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		E		E		E		E		E		E		E		E		348																																																																																																																																																																																																																																																																																																															
NTDB id 1123 OK783 RS03845 WP 003688695.1	IGQGK	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		E		E		E		E		E		E		E		E		348																																																																																																																																																																																																																																																																																																															
NTDB id 1427 RS RS02760 WP 011000510.1	IGQGR	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		E		E		E		E		E		E		E		E		E		352																																																																																																																																																																																																																																																																																																																		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	IGQGK	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		E		E		E		E		E		E		E		E		354																																																																																																																																																																																																																																																																																																									
NTDB id 1142 GTF74 RS11550 WP 000344154.1	IGQGK	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		E		E		E		E		E		E		E		E		354																																																																																																																																																																																																																																																																																																									
NTDB id 1205 PSJM300 05545 AFN77183.1	IGQGK	A	N	A	A	K	Y	L	E	E	N	P	E	I	G	E	I	E	Q	I	R	A	K	L	L	V	T	S	A		N	T	K	A	T	P	V	A	E	D	L	A	D	I		E		E		E		E		E		E		E		E		E		347																																																																																																																																																																																																																																																																																																																			
NTDB id 1022 ACIAD RS06390 WP 004925639.1	IGQGK	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		E		E		E		E		E		E		E		349																																																																																																																																																																																																																																																																																																																
NTDB id 1074 ABD1 RS10195 WP 000344167.1	IGQGK	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		E		E		E		E		E		E		E		E		349																																																																																																																																																																																																																																																																																																													
consensus	***	!!!	*****	***	*	***	*****	***	*	*																																																																																																																																																																																																																																																																																																																																																																									

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved