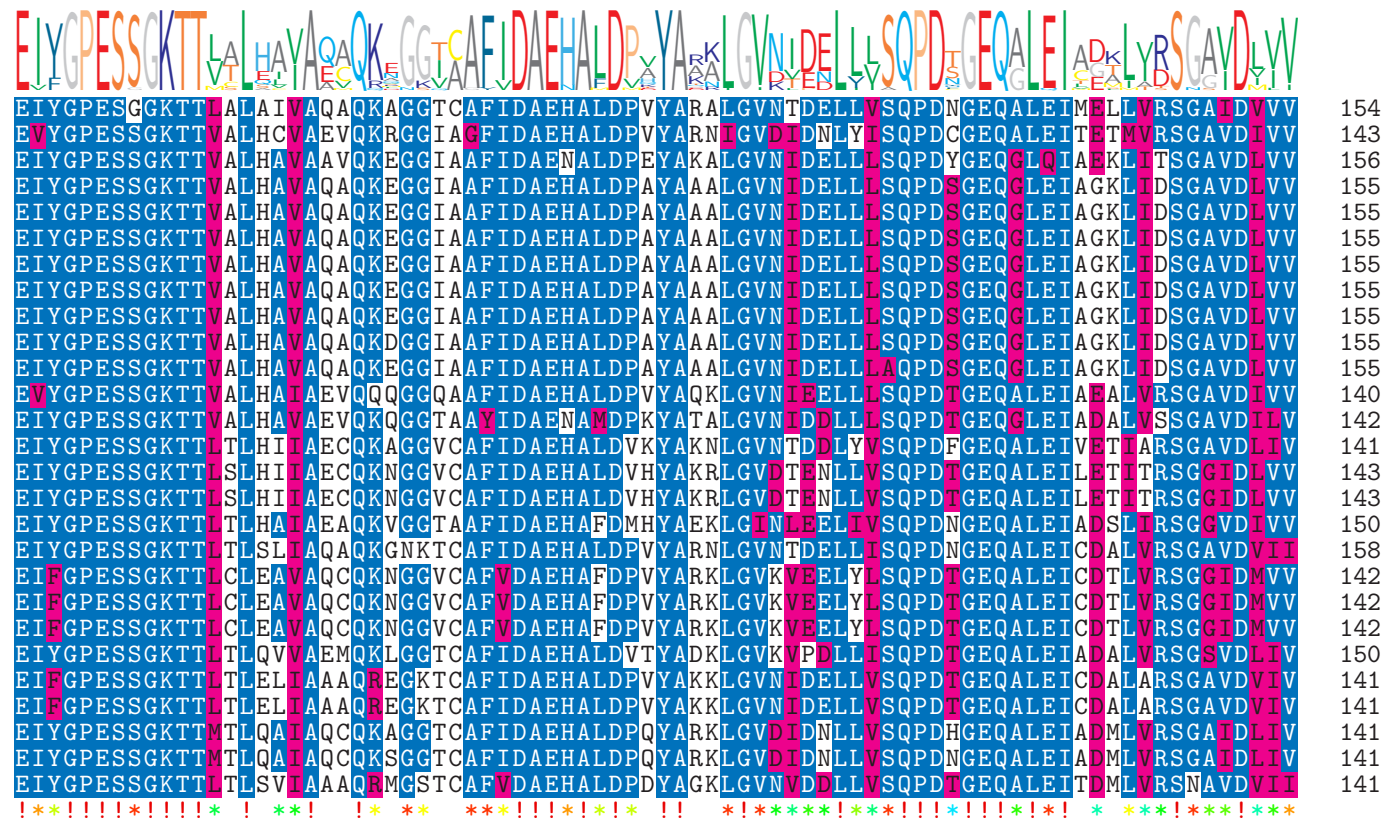


logo

NTDB id 1313 DR RS12030 WP 010888966.1	.MSKD...ATKEISAPTDAKERSKATETAMSQIEKAFGKGSIMKLGAE.S.KLDVQVVSTGSLSLDLALGVGGIPRGRIT	74
NTDB id 26447 EUBREC RS10050 WP 012743062.1	MAKEDKALKALDAATIAQIEKQYKGSVMKLGDNANMNVETVPTGSLSLDLALGLGGLPKGRIT	63
NTDB id 600 KW2 RS01765 WP 011675413.1	MATKK...KTNFDDITKKYGAERDKALADALALIEKDFGKGSIMRLGEAA.NQKVSVVSSGSLALDLALGAGGYPKGRIV	76
NTDB id 269 KZH43 RS08665 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDLALGSGGYPKGRIT	75
NTDB id 228 SPD RS09265 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDLALGSGGYPKGRIT	75
NTDB id 194 SPR RS08825 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDLALGSGGYPKGRIT	75
NTDB id 159 SP RS09750 WP 001085462.1	.MAKK...PKKLEEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDLALGSGGYPKGRIT	75
NTDB id 499 SM12261 RS08315 WP 078228268.1	.MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDLALGSGGYPKGRIT	75
NTDB id 527 SMSK321 RS11065 WP 001085454.1	.MAKK...PKKLDEISKKFGAEREKALNDALKLIEKDFGKGSIMRLGERA.EQKVQVMSSGSLALDLALGSGGYPKGRIT	75
NTDB id 408 SMU RS09530 WP 002262392.1	.MAKR...IKKTEEITKKFGDERKKALDDALKNIEKDFGKGAVMRLGERA.EQKVQVMSSGSLALDLALGAGGYPKGRIV	75
NTDB id 453 Spy49 1753c ACI62003.1	.MAKK...LKKNEEITKKFGDERRKALDDALKNIEKDFGKGAVMRLGERA.EQKVQVMSSGSLALDLALGAGGYPKGRIT	75
NTDB id 115 BSU 16940 NP 389576.2	MSDRQAALDMALKQIEKQFGKGSIMKLGEKT.DTRIISTVPSGSLALDTALGIGGYPRGRIT	60
NTDB id 625 LCA RS02525 WP 011374196.1	MAKDERQAALDAALKKIEKNFGKGSIMRMGEKV.DTQVSTVSSGSLALDEALGVGGYPRGRIV	62
NTDB id 1245 Cj1673c YP 002345041.1	MDNKRKSLDAALKSLDKTFGKGTILRLGDK.EVEQIDSIGTGSVGLDLALGIGGVPKGRIT	61
NTDB id 1211 C694 RS00795 WP 000963128.1	MAIDEDKQKATISLAIKQIDKVFVGKGAIVRLGDK.QVEKIDSISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1214 NCTC11637 00359 SQJ03206.1	MAIDEDKQKATISLAIKQIDKVFVGKGAIVRLGDK.QVEKIDAISTGSLGLDLALGIGGVPKGRIT	63
NTDB id 1334 RAOC RS04870 WP 004918236.1	MAKTETTSPNDDKKKALAAVLEKLDKT.YGKGTVMKLGDTVDHNIIEVIPSGLGLDLALGVGGYPKGRIV	70
NTDB id 1389 A4U84 RS07560 WP 021112712.1	.MAENKKSSKNNTVVVKQVEPEQKKQALEAALAQIEKQFGKGSIMKLQGT.EQLDIESVSTGSLGLDLALGIGGLPMGRIV	78
NTDB id 1130 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1124 NGFG RS03960 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1123 OK783 RS03845 WP 003688695.1	MSDDKSKALAAALAQIEKSFGKGAIMKMDGSQQUEENLEVISTGSLGLDLALGVGGLPRGRIV	62
NTDB id 1427 RS RS02760 WP 011000510.1	.MEDG.....KKAASMSAEKQKALAAALAQIEKQFGKGSIMKMGDA.EVEPVQVVSTGSLGLDVALGVGGLPRGRVV	70
NTDB id 1165 A1552VC RS01565 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDLALGAGGLPMGRIV	61
NTDB id 1142 GTF74 RS11550 WP 000344154.1	MDENKQKALAAALGQIEKQFGKGSIMRLGDN.RAMDVETISTGSLSLDLALGAGGLPMGRIV	61
NTDB id 1022 ACIAD RS06390 WP 004925639.1	MDNKSALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIV	61
NTDB id 1074 ABD1 RS10195 WP 000344167.1	MDENKSKALQAALSQIEKQFGKNTVMRLGDN.TVQAVEAVSTGSLTLDIALGIGGLPKGRIT	61
NTDB id 1205 PSJM300 05545 AFN77183.1	MDENKKRALAAALGQIEKQFGKGAVMRMGDH.DRQAIPSIISTGSLGLDLALGIGGLPKGRIV	61
consensus	*** **	

NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 26447 EUBREC RS10050 WP 012743062.1
NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SP2 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 1245 Cj1673c YP 002345041.1
NTDB id 1211 C694 RS00795 WP 000963128.1
NTDB id 1214 NCTC11637 00359 SQJ03206.1
NTDB id 1334 RA0C RS04870 WP 004918236.1
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 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



```

NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 26447 EUBREC RS10050 WP 012743062.1
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 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 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 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 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1

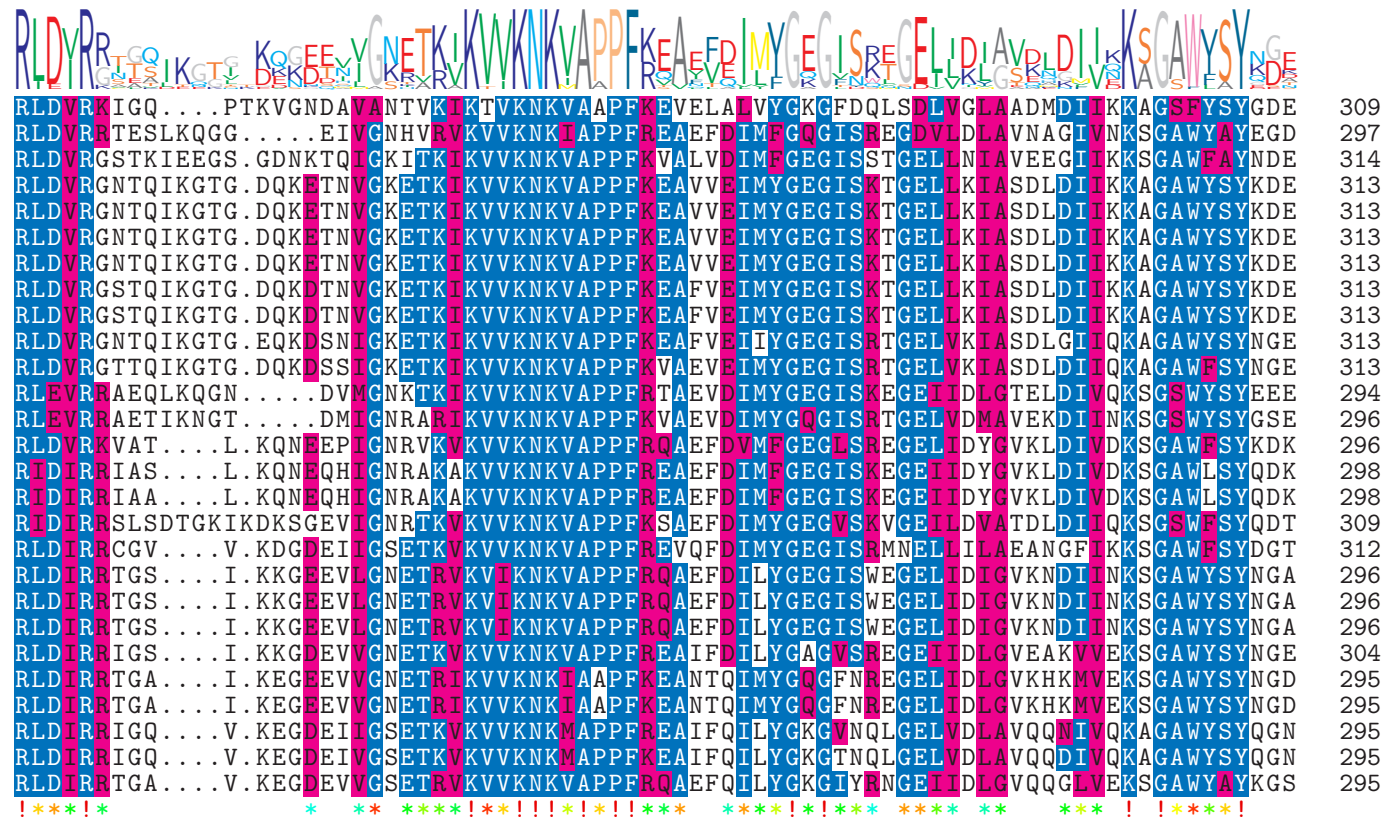
```

VDSVAAL	TPKAEI	EGDMG	DSLH	GLQAR	MSQAL	RKLT	IG	IN	KT	NT	LA	FINQ	RM	KIGM	EGN	PETT	TGGN	AL	KFY	ASV																												
VDSVAALT	TPRAEI	EGDMG	DSL	GLQAR	MSQAL	RKLT	TAI	L	S	K	T	G	T	A	I	F	I	N	Q	V	R	E	K	I	G	V	M	.	Y	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	233
VDSVAALVP	PKAEI	EGDMG	DSLH	GLQAR	MSQAL	RKLT	TA	V	I	S	K	N	C	I	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	S	V	232	
IDSVAALVP	PKAEI	DGEI	GDS	SVGLQAR	MSQAMR	KLAG	H	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	S	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	235	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V	M	.	F	G	N	P	E	T	T	T	G	G	R	A	L	K	F	Y	A	S	V	234	
VDSVAALVP	RAEI	DGDI	GDSH	VGLQAR	MSQAMR	KLAG	S	I	N	K	T	KT	TA	I	F	I	N	Q	L	R	E	K	V	G	V																							

```

NTDB id 1313 DR RS12030 WP 010888966.1
NTDB id 26447 EUBREC RS10050 WP 012743062.1
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 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 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 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 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

```



logo

NTDB id 1313 DR RS12030 WP 010888966.1	RIGQGKEKTIAYIAERP	MEQEIRDRVMAAIRAGNAGEAPALAPAPA.....APEAAEA.....	363																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
NTDB id 26447 EUBREC RS10050 WP 012743062.1	KIGQGRENAKTYIHENPAFFDMLEAKVRDFYFTQPEDEDAAVQEDSEK.....PEAEE.....	350																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 600 KW2 RS01765 WP 011675413.1	KIGQGAEKAKNYLKEHQDVDFEIDHKVRAAHGLDDSEVAETEEETTASKTKAKAKKEEKAVETEEIELELED.....	387																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 269 KZH43 RS08665 WP 001085462.1	KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 228 SPD RS09265 WP 001085462.1	KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 194 SPR RS08825 WP 001085462.1	KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 159 SP RS09750 WP 001085462.1	KIGQGSSENAKKYLAEHPEIFDEIDKQVRSKFGLIDGEEVSEQDTENKKDE....PKKEEA..VNEEVPLDLGDELEIEIE	387																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 499 SM12261 RS08315 WP 078228268.1	KIGQGSSENAKKYLADNPEIFDEIDHQVRVQFGLIDGEEIAES....KKDE....AAQVDS..VNEEVTLDLGDELEIEIE	383																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	KIGQGSSENAKKYLADNPEVFAEIDHQVRVQFGLIDGEEAAES....KKDE....VAQVDS..VNEEVTLDLGDELEIEIE	383																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 408 SMU RS09530 WP 002262392.1	KIGQGSSENAKKFLADNPEIFDDIDHKVRVQYGLIEEDNTEEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELED.	383																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 453 Spy49 1753c ACI62003.1	KIGQGSSENAKRYLADHPQLFDEIDRKVRVKFGLLEESEESAMAVASE.....E.....TDDLALDLNGIEIED.	378																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 115 BSU 16940 NP 389576.2	RLGQGRENAKQFLKENKDIMLMIQEIQREHYGLDNNGVVQQAEETQEEL.EFE.E.....	348																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 625 LCA RS02525 WP 011374196.1	RIGQGRENAKNYLADHEDVEDEVRLKVRAAYGISDVPEEDLPTTEDE.QI.NILPDDST.....EE.....	355																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1245 Cj1673c YP 002345041.1	KLGGGRENSKAFLENPEIADEITKAIQNSMGIEGMISGSEDD..EGEE.....	343																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1211 C694 RS00795 WP 000963128.1	KLGGGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..PLEEM.E.....	347																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	KLGGGRENAKALLKEDKALADEITLKIKESIGSNEEIMPLPDE..PLEEM.E.....	347																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1334 RAOC RS04870 WP 004918236.1	KLGGGRDITVKELTKDNPELAEELEAKIREKLQAK.....	343																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	KIGQGGKNNAVKWLKENPEIADKLEQEIRNTLASNPNSVLKATASDSNDES.DVEEFSE.....EEL.....	372																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1130 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGDGER.....PE.....E.....	348																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1124 NGFG RS03960 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGDGER.....PE.....E.....	348																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1123 OK783 RS03845 WP 003688695.1	KIGQGGKDNVRVWLKENPEISDEIDAKIRALNGVEMHITEGTQDETGDGER.....PE.....E.....	348																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1427 RS RS02760 WP 011000510.1	RIGQGRDNCREFLRENAELAREIENKVREHLGVTPMGAVTLA.EEVEED.....	352																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADV.EFGAVPE.....EF.....	354																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	KIGQGGKANACKYLLKENPEIAKTLDDKLLREMLLNPENMQLIAETSSAADV.EFGAVPE.....EF.....	354																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	KIGQGGKNNVIRYLEENPQISTEIEAVIREQLLTKASDQTA..HDETEEEP.DLL..ES.....	349																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	KIGQGGKNNVIRYFEENNQIAEEIERNIREQLLTTGTNGAVQ..I.EDEEEP.DLL..LE.....S.....	349																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
NTDB id 1205 PSJM300 05545 AFN77183.1	KIGQGGKANAAKYLLLENPEIGQEIEQQIRAKLLVTSANTKATPVAEDLADA.DI.....	347																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
consensus	***!!!!**	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

logo

NTDB id	id	DR	RS	WP	010888966.1	.	363
NTDB id	26447	EUBREC	RS10050	WP	012743062.1	.	350
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	408	SMU	RS09530	WP	002262392.1	.	383
NTDB id	453	Spy49	1753c	ACI62003.1	.	378	
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	RA0C	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							

- ☐ non conserved
- ☒ similar
- ☒ $\geq 50\%$ conserved