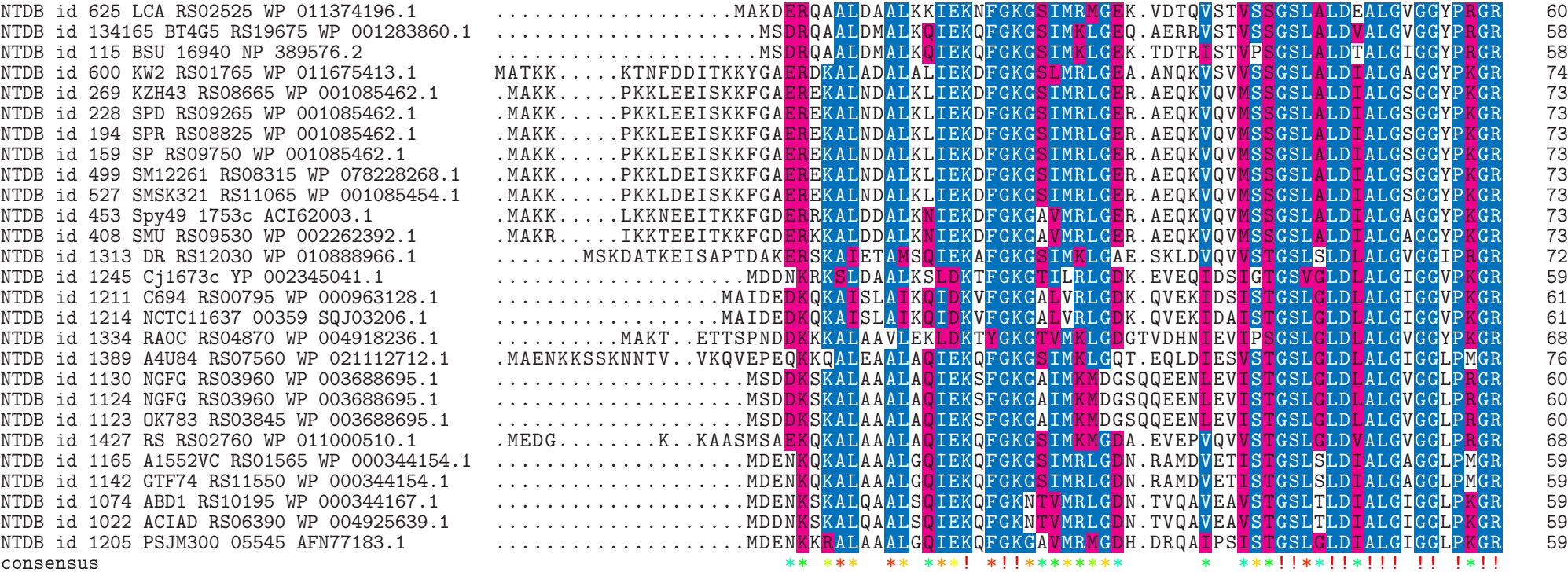


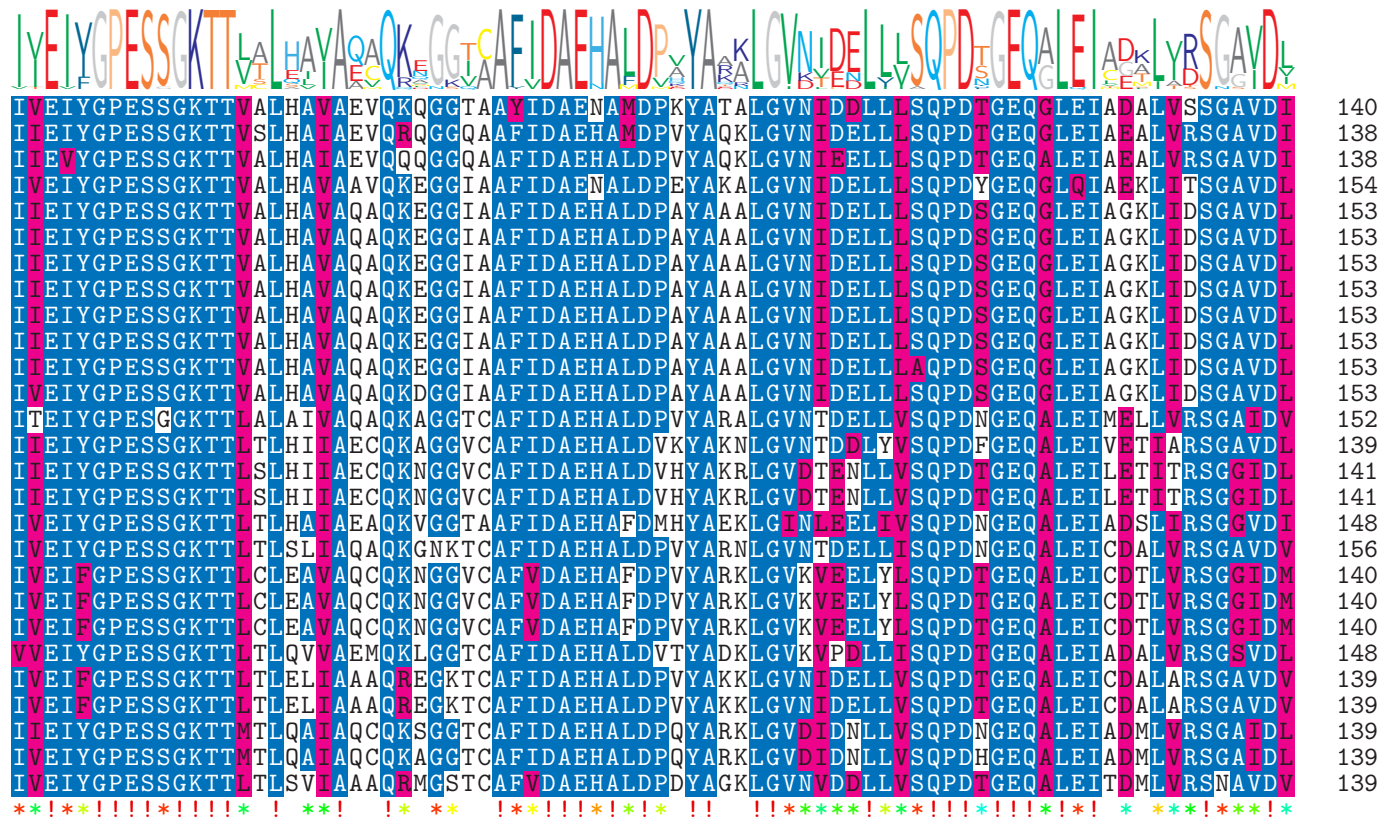
logo



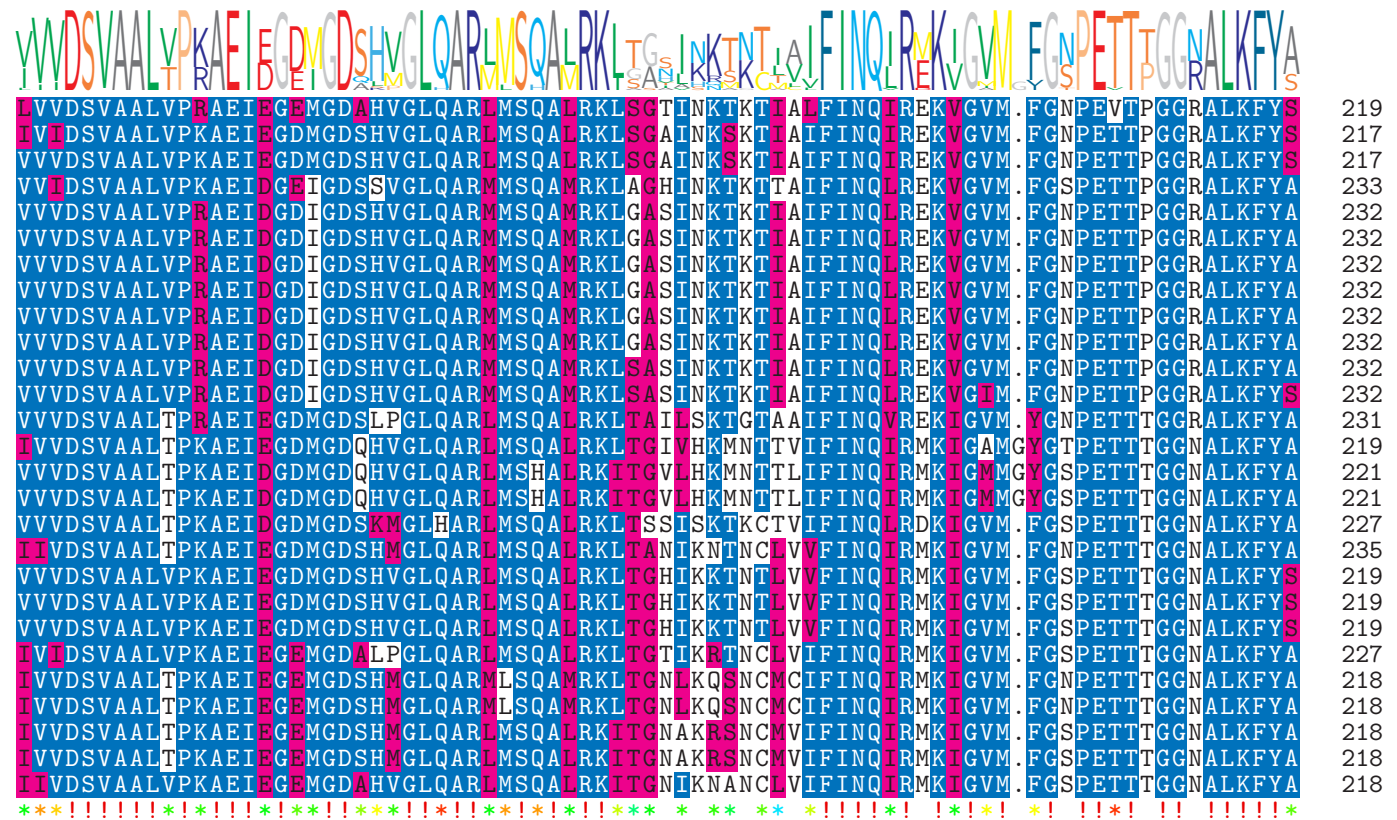
```

NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 134165 BT4G5 RS19675 WP 001283860.1
NTDB id 115 BSU 16940 NP 389576.2
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 1313 DR RS12030 WP 010888966.1
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 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

```



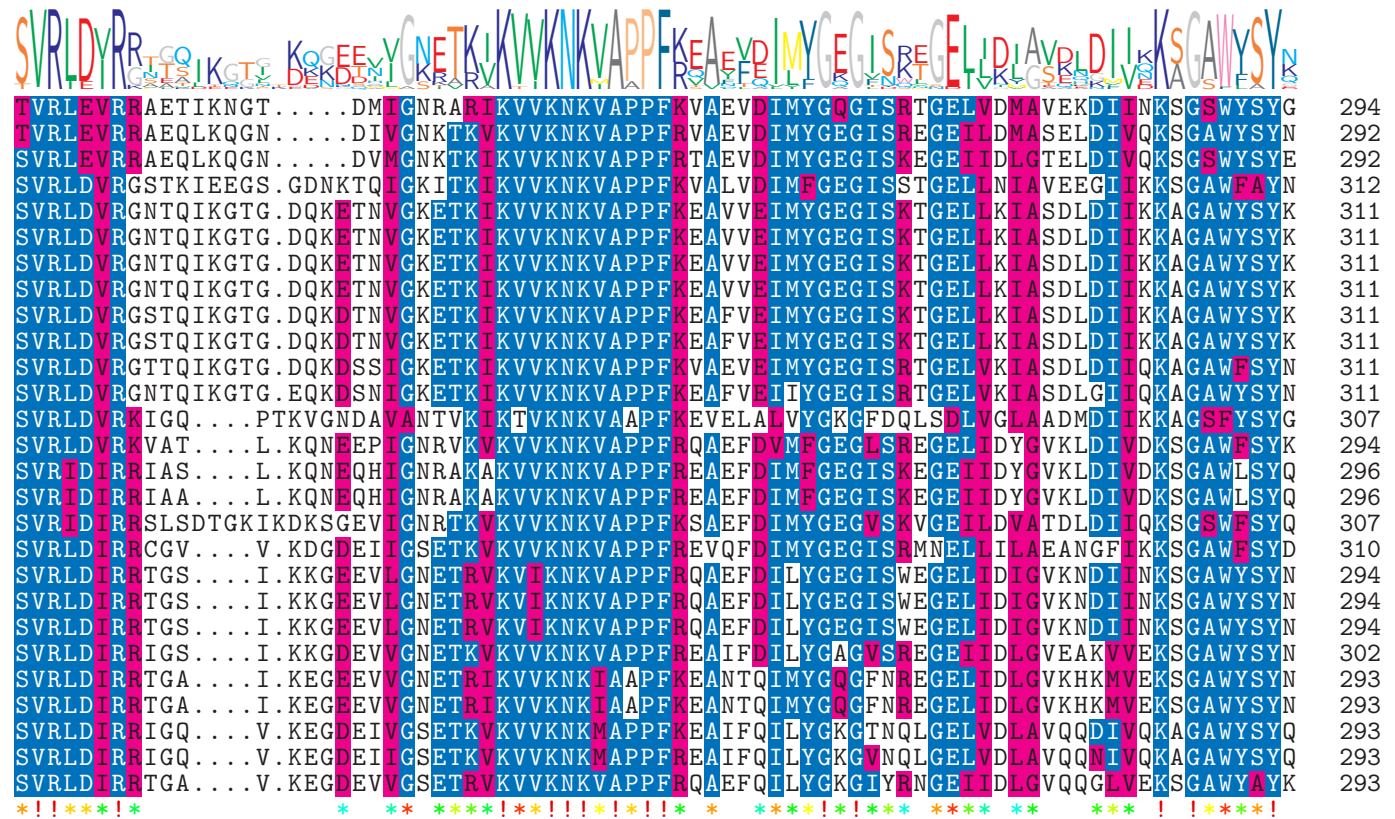
NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 134165 BT4G5 RS19675 WP 001283860.1
NTDB id 115 BSU 16940 NP 389576.2
NTDB id 600 KW2 RS01765 WP 011675413.1
NTDB id 269 KZH43 RS08665 WP 001085462.1
NTDB id 228 SPD RS09265 WP 001085462.1
NTDB id 194 SPR RS08825 WP 001085462.1
NTDB id 159 SP RS09750 WP 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 1313 DR RS12030 WP 010888966.1
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 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus



```

NTDB id 625 LCA RS02525 WP 011374196.1
NTDB id 134165 BT4G5 RS19675 WP 001283860.1
NTDB id 115 BSU 16940 NP 389576.2
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 1313 DR RS12030 WP 010888966.1
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 1074 ABD1 RS10195 WP 000344167.1
NTDB id 1022 ACIAD RS06390 WP 004925639.1
NTDB id 1205 PSJM300 05545 AFN77183.1
consensus

```



logo

NTDB id 625 LCA RS02525 WP 011374196.1	SERIGQGREN	AKNYLADHEDVEDEVRLKVR	AAYGISDVPEEDLPTTEDEQINILPDDSTEE	355		
NTDB id 134165 BT4G5 RS19675 WP 001283860.1	EERLGQGGREN	SKQFLKENTDLREEIAFFIREHHG	ISEDGAEGAEDST.LLD	343		
NTDB id 115 BSU 16940 NP 389576.2	EERLGQGGREN	AKQFLKENKDIMLMIQEQIREHYGL	DNNGVVVQQAEET.QEELEF	348		
NTDB id 600 KW2 RS01765 WP 011675413.1	DEKIGQGA	EKAKNYLKEHQDVFDEIDHKVRAAHGL	LDDSEVAETEEETTASHTKAKAKKEEKAVETEEIELELED	387		
NTDB id 269 KZH43 RS08665 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGL	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385		
NTDB id 228 SPD RS09265 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGL	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385		
NTDB id 194 SPR RS08825 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGL	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385		
NTDB id 159 SP RS09750 WP 001085462.1	DEKIGQGS	ENAKKYLAEHPEIFDEIDKQVRSKFGL	LIDGEEVSEQDTENKKDE...PKKEEA..VNEEVPLDLGDELEIE	385		
NTDB id 499 SM12261 RS08315 WP 078228268.1	DEKIGQGS	ENAKKYLADNPEIFDEIDHQVRVQFGL	LIDGEEIAES...KKDE...AAQVDS..VNEEVTLDLGDELEIE	381		
NTDB id 527 SMSK321 RS11065 WP 001085454.1	DEKIGQGS	ENAKKYLADNPEVFAEIDHQVRVQFGL	LIDGEEAAES...KKDE...VAQVDS..VNEEVTLDLGDELEIE	381		
NTDB id 453 Spy49 1753c ACI62003.1	GEKIGQGS	ENAKRYLADHPQLFDEIDRKVRVKFGL	LEESEEEESAMAVASE.....E.....TDDLALDLNGIEIE	377		
NTDB id 408 SMU RS09530 WP 002262392.1	GEKIGQGS	ENAKKFLADNPEIFDDIDHKVVRVQYGL	IEEDNTEEKQSSKEK.....ETDEK..ADKNLVLELDDTIELE	382		
NTDB id 1313 DR RS12030 WP 010888966.1	DERIGQGG	KEKTIAYIAERPMEQEIRDRVMAAIRAGNAGEAPALAPAPAAPEAAEA		363		
NTDB id 1245 Cj1673c YP 002345041.1	DKKLGQGGREN	SKAFLKENPEIADEITKAIQNSMG	IEGMI....SGSEDDE..GEE	343		
NTDB id 1211 C694 RS00795 WP 000963128.1	DKKLGQGGREN	AKALLKEDKALADEITLKIKESIGSNEEI	MPLPDEP..LEEME	347		
NTDB id 1214 NCTC11637 00359 SQJ03206.1	DKKLGQGGREN	AKALLKEDKALADEITLKIKESIGSNEEI	MPLPDEP..LEEME	347		
NTDB id 1334 RAOC RS04870 WP 004918236.1	DTKLGQGRD	TVKELIKDNPELAELEAKIREKLQAK		343		
NTDB id 1389 A4U84 RS07560 WP 021112712.1	GTKIGQGGKNN	AVKWLKENPEIADKLEQEIRNTLASNPNS	VLKATASDSNDES DV..EEFSEEEL	372		
NTDB id 1130 NGFG RS03960 WP 003688695.1	GAKIGQGGKDN	VRVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD.....GERPEE	348		
NTDB id 1124 NGFG RS03960 WP 003688695.1	GAKIGQGGKDN	VRVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD.....GERPEE	348		
NTDB id 1123 OK783 RS03845 WP 003688695.1	GAKIGQGGKDN	VRVWLKENPEISDEIDAKIRALNGVEMHI	TEGTQDETD.....GERPEE	348		
NTDB id 1427 RS RS02760 WP 011000510.1	GERIGQGRDNC	REFLRENAELAREIENKVREHLGVTPMG	AV.TLAEVEED	352		
NTDB id 1165 A1552VC RS01565 WP 000344154.1	GDKIGQGGKAN	ACKYLLKENPEIAKTLDDKKLREMLLNPENM	QLIAETSSAADDVEF..GAVPEEF	354		
NTDB id 1142 GTF74 RS11550 WP 000344154.1	GDKIGQGGKAN	ACKYLLKENPEIAKTLDDKKLREMLLNPENM	QLIAETSSAADDVEF..GAVPEEF	354		
NTDB id 1074 ABD1 RS10195 WP 000344167.1	GNKIGQGGKNN	VIRYFEENNQIAEEIERNIREQLLTGTN	GAVQ.I.EDEEEPD...LLES	349		
NTDB id 1022 ACIAD RS06390 WP 004925639.1	GNKIGQGGKNN	VIRYLEENPQISTEIEAVIREQLLTKASD	QTAA.HDETEEEPD...LLES	349		
NTDB id 1205 PSJM300 05545 AFN77183.1	GSKIGQGGKAN	AAKYLEENPEIGQEIEQQIRAKLLVTSAN	TKATPVAEDLADAD....I	347		
consensus	***!!!*****	**	*****	*****	**	**

logo

		IEE	
NTDB id 625 LCA RS02525 WP 011374196.1	...	355	
NTDB id 134165 BT4G5 RS19675 WP 001283860.1	...	343	
NTDB id 115 BSU 16940 NP 389576.2	...	348	
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 453 Spy49 1753c ACI62003.1	D..	378	
NTDB id 408 SMU RS09530 WP 002262392.1	D..	383	
NTDB id 1313 DR RS12030 WP 010888966.1	...	363	
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 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 1074 ABD1 RS10195 WP 000344167.1	...	349	
NTDB id 1022 ACIAD RS06390 WP 004925639.1	...	349	
NTDB id 1205 PSJM300 05545 AFN77183.1	...	347	
consensus			

- X non conserved
- X similar
- X ≥ 50% conserved