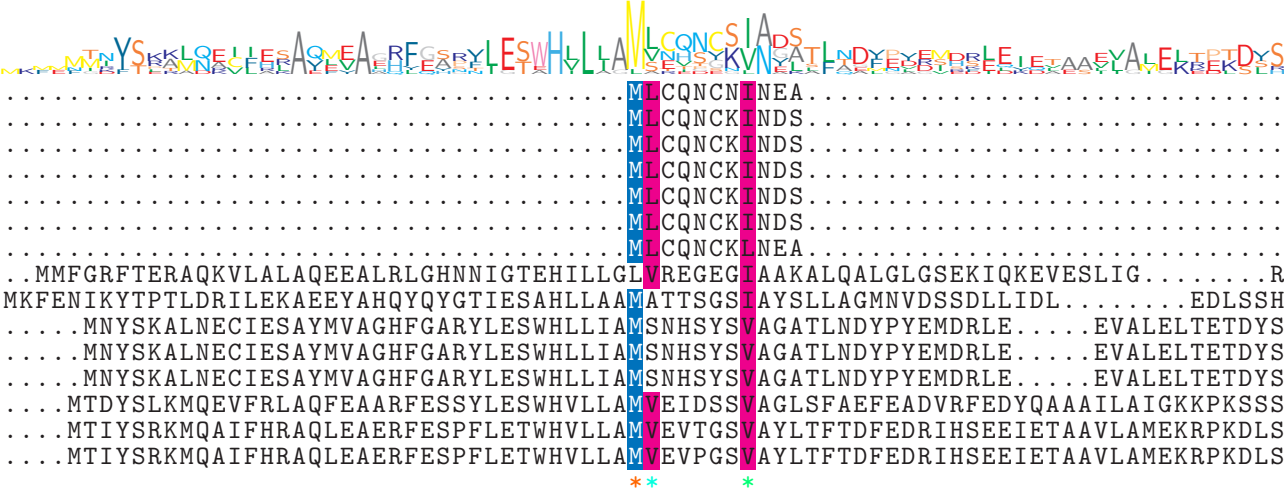


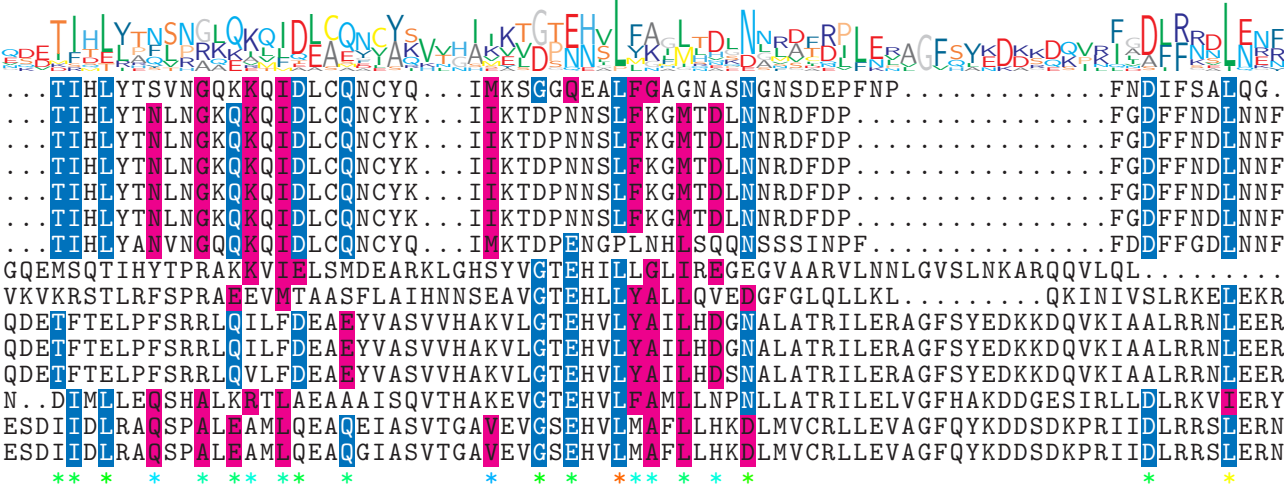
logo

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 997277 ABC799 RS07220 WP 000882520.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



logo

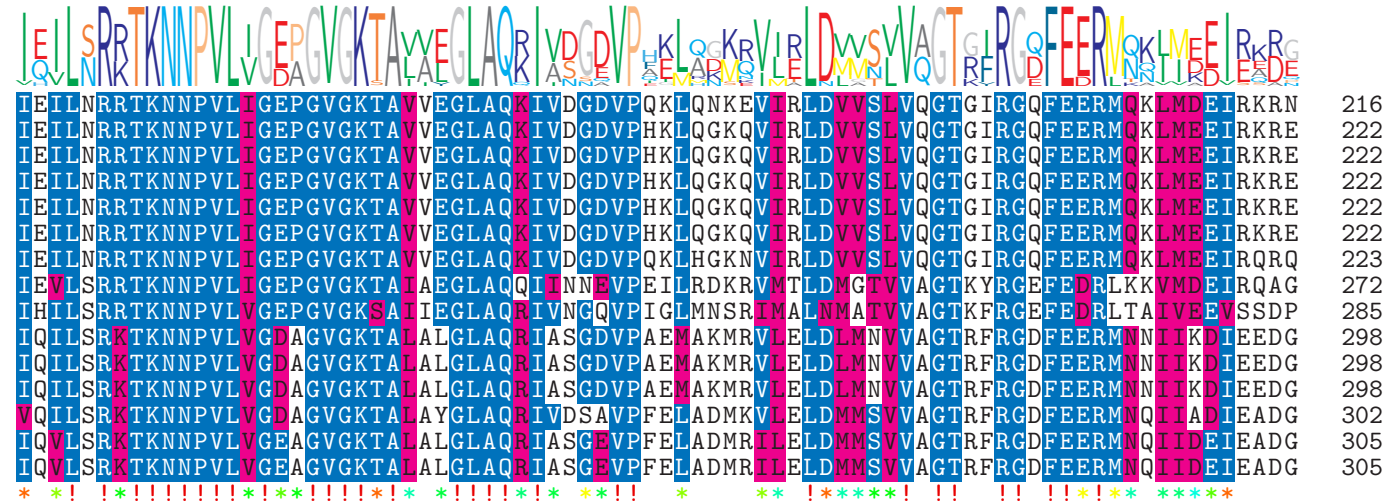
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 997277 ABC799 RS07220 WP 000882520.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



```

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 997277 ABC799 RS07220 WP 000882520.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 VT404 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```



logo

NTDB id 601 KW2 RS02615 WP 021036805.1	DVIMFIDEIHEIVGAGSAGDGNMDAGNILKPALARGE	LQIVGATTLNEYR	IEKDAALERRMQPVK	VDEPSVDEITITIL	295	
NTDB id 997277 ABC799 RS07220 WP 000882520.1	DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGE	LQIVGATTLNEYR	IEKDAALERRMQPVK	VDEPTVDEITITIL	301	
NTDB id 281 KZH43 RS03550 WP 000882517.1	DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGE	LQIVGATTLNEYR	IEKDAALERRMQPVK	VDEPTVDEITITIL	301	
NTDB id 245 SPD RS03860 WP 000882517.1	DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGE	LQIVGATTLNEYR	IEKDAALERRMQPVK	VDEPTVDEITITIL	301	
NTDB id 243 SPR RS03635 WP 000882517.1	DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGE	LQIVGATTLNEYR	IEKDAALERRMQPVK	VDEPTVDEITITIL	301	
NTDB id 241 SP RS04015 WP 000882523.1	DIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGE	LQIVGATTLNEYR	IEKDAALERRMQPVK	VDEPTVDEITITIL	301	
NTDB id 378 SMU RS02690 WP 002263569.1	DVILFIDEIHEIVGAGSAGDGNMDAGNILKPALARGE	LQIVGATTLNEYR	IEKDAALERRMQPVK	VDEPSVAETITIL	302	
NTDB id 85 BSU 00860 NP 387967.1	NIILFIDEIHTLIGAGG	AFGATDASNILKPS	LARGE	LQIVGATTLDEYRKYIEKDAALERRFQPIQV	QPSVDESIIQIL	351
NTDB id 610 V4T04 RS10165 WP 012897346.1	DVILFIDEIHTIIGAGG	MDSVMDAANILKPALARGE	LQIVGATTYHEYQKYIEKD	EALEERRLARIN	VDEPSVDEIAITIL	365
NTDB id 290 KZH43 RS10025 WP 001109677.1	QVILFIDEIHTIMSGSGIDSTL	DAANILKPALARGT	LRTVGATTQEYQKHIEKDAAL	SRRFAKVTIEEPSVADSM	TIL	378
NTDB id 289 SPD RS10700 WP 001109677.1	QVILFIDEIHTIMSGSGIDSTL	DAANILKPALARGT	LRTVGATTQEYQKHIEKDAAL	SRRFAKVTIEEPSVADSM	TIL	378
NTDB id 287 SP RS11210 WP 001109712.1	QVILFIDEIHTIMSGSGIDSTL	DAANILKPALARGT	LRTVGATTQEYQKHIEKDAAL	SRRFAKVTIEEPSVADSM	TIL	378
NTDB id 377 SMU RS09275 WP 002262344.1	HTVLFIDEIHTIMSGSGIDSTL	DAANILKPALARGSLRT	IGATTQEYQKHIEKDAAL	SRRFAKVTIEEPSE	EAYQIL	382
NTDB id 297 STER RS00545 WP 011680614.1	KIILFIDEIHTIIGSGSGIDSTL	DAANILKPALARGT	LHMVGATTQAEYQKHIEKDAAL	SRRFAKVTIEEPSVSE	ATDIL	385
NTDB id 329 STU RS10020 WP 011225298.1	KIILFIDEIHTIIGSGSGIDSTL	DAANILKPALARGT	LHMVGATTQAEYQKHIEKDAAL	SRRFAKITIEEPSVSE	ATDIL	385
consensus	***!!!!*!*!*!*** *	*!***!!!!*!!!!*	*****!!!!	!!	!!!!*!!*!! *	***!*****!!

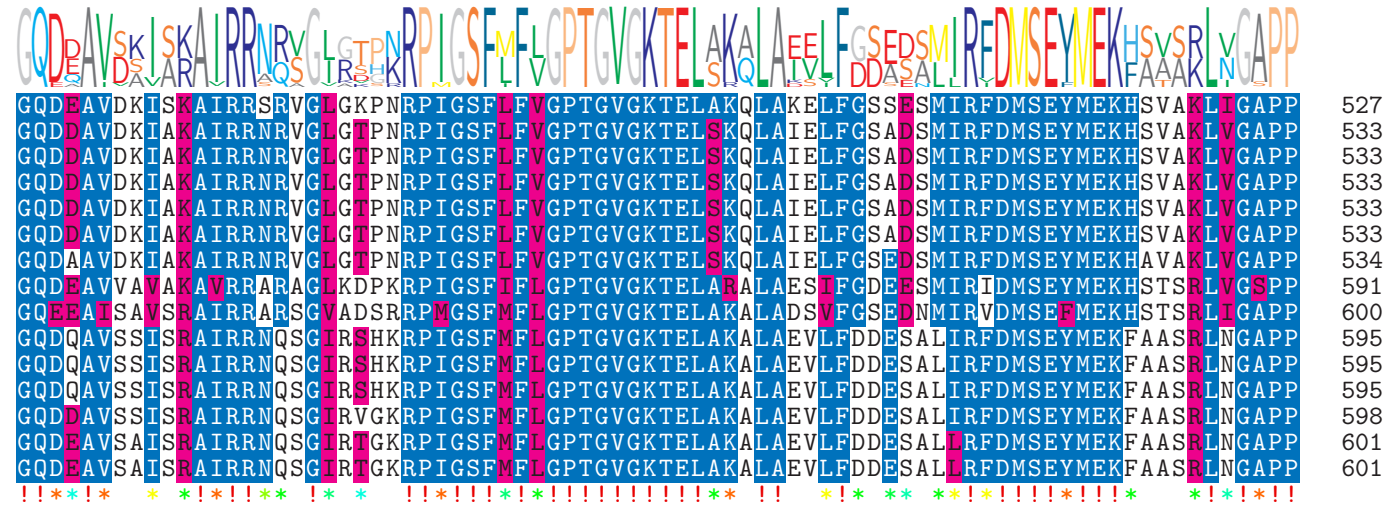
logo

NTDB id 601 KW2 RS02615 WP 021036805.1	RGIQARYEDYHHVQYTDAAIEAAAHLSNRYIQDRFLPDKAIDLLDE	SGSKNLTLKF..VDPEDINRRITADAENKKNEAT	373			
NTDB id 997277 ABC799 RS07220 WP 000882520.1	KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDE	AGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT	379			
NTDB id 281 KZH43 RS03550 WP 000882517.1	KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDE	AGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT	379			
NTDB id 245 SPD RS03860 WP 000882517.1	KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDE	AGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT	379			
NTDB id 243 SPR RS03635 WP 000882517.1	KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDE	AGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT	379			
NTDB id 241 SP RS04015 WP 000882523.1	KGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDE	AGSKMNLTLNF..VDPKVIDQRLIEAENLKSQAT	379			
NTDB id 378 SMU RS02690 WP 002263569.1	KGIQPKYEDYHHVQYTDAAIEAAANLSNRYIQDRFLPDKAIDLLDE	AGSKMNLTLNF..VDPKEIDHRLIEAENLKAQAT	380			
NTDB id 85 BSU 00860 NP 387967.1	QGLRDRIEAAHHRVSI	TDAAIEAAVKS	DRYISDRFLPDKAIDLLDE	AGSKVRLRSFTTPPNLKELEQKLDVVRKEKDAAV	431	
NTDB id 610 V4T04 RS10165 WP 012897346.1	QGLREKFEDYHQVKFTDQA	IKSAVMLSVRYMTSRK	LPDKAIDLLDEAAAVKISVKNQQT	KRLDIEKETAAEAQEELSEAV	445	
NTDB id 290 KZH43 RS10025 WP 001109677.1	QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHL	PDSAIDLLDEAAATVQNKAKHVKA	DDSDL....S....PADKAL	450		
NTDB id 289 SPD RS10700 WP 001109677.1	QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHL	PDSAIDLLDEAAATVQNKAKHVKA	DDSDL....S....PADKAL	450		
NTDB id 287 SP RS11210 WP 001109712.1	QGLKATYEKHHRVQITDEAVETAVKMAHRYLTSRHL	PDSAIDLLDEAAATVQNKAKHVKA	DDSDL....S....PADKAL	450		
NTDB id 377 SMU RS09275 WP 002262344.1	LGLKKSSETYHHVITSDAAVMAAVKGAHRYLSG	KNLPDSAIDLLDEASATVQGLVKK..KAPAYL....T....DL	DHAL	452		
NTDB id 297 STER RS00545 WP 011680614.1	NGLRSSYEDYHRVTITDAAVETAVKAAHRYLTS	KNLPDSAIDLLDEASATVQVR	IKK..EDKREI....T....PL	DEAL	455	
NTDB id 329 STU RS10020 WP 011225298.1	NGLRSSYEDYHRVTITDAAVETAVKAAHRYLTS	KNLPDSAIDLLDEASATVQVR	IKK..EAKREI....T....PL	DEAL	455	
consensus	!* **!*!!! *	*! !***! ** !!* *	!!!!*!!!!*!!*	*** *	* *** *	! *

```

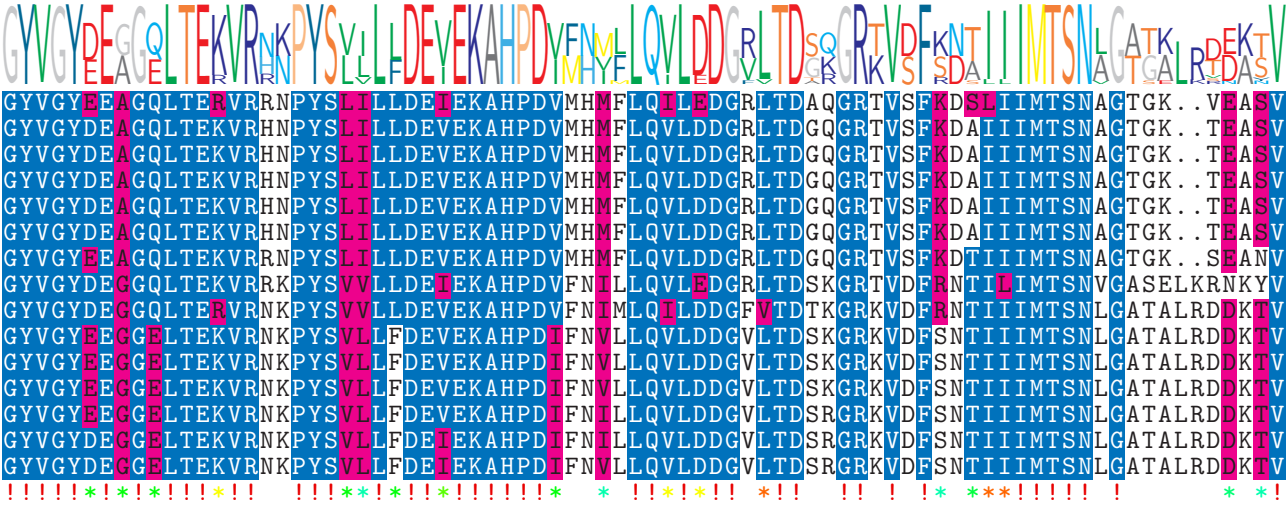
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 997277 ABC799 RS07220 WP 000882520.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 VT404 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```



logo

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 997277 ABC799 RS07220 WP 000882520.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus



605
611
611
611
611
611
612
671
680
675
675
675
678
681
681

logo

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 997277 ABC799 RS07220 WP 000882520.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

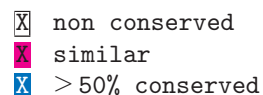


680
686
686
686
686
686
687
751
760
755
755
755
758
761
761

```

NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 997277 ABC799 RS07220 WP 000882520.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 377 SMU RS09275 WP 002262344.1
NTDB id 297 STER RS00545 WP 011680614.1
NTDB id 329 STU RS10020 WP 011225298.1
consensus

```



- X non conserved
- X similar
- X > 50% conserved