

logo

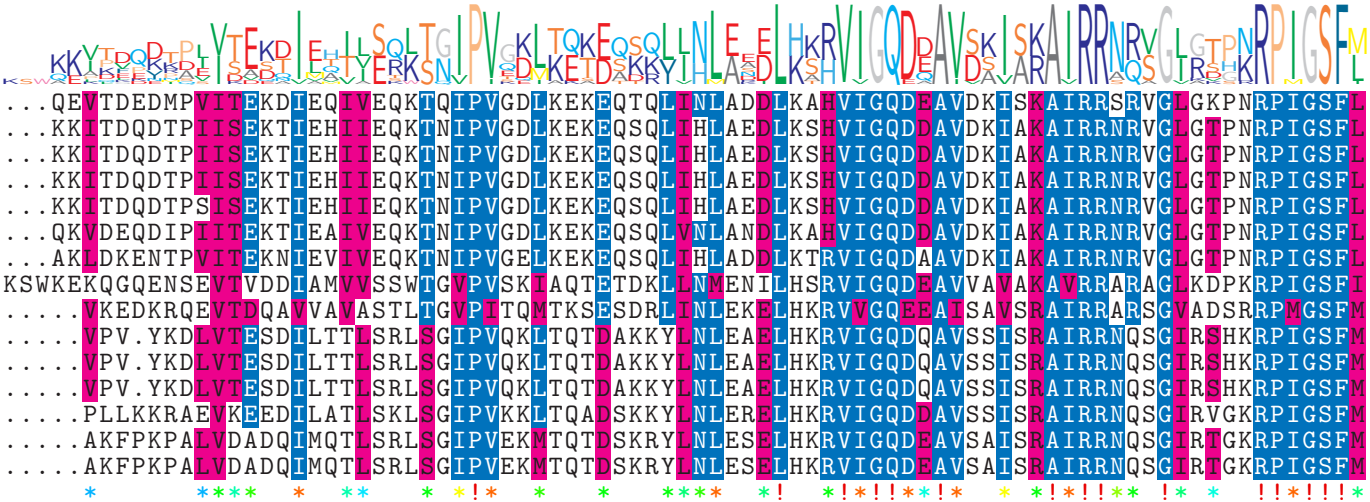
NTDB id 601 KW2 RS02615 WP 021036805.1	M.CQNCNINEAT.....I	13
NTDB id 281 KZH43 RS03550 WP 000882517.1	M.CQNCKINDST.....I	13
NTDB id 245 SPD RS03860 WP 000882517.1	M.CQNCKINDST.....I	13
NTDB id 243 SPR RS03635 WP 000882517.1	M.CQNCKINDST.....I	13
NTDB id 241 SP RS04015 WP 000882523.1	M.CQNCKINDST.....I	13
NTDB id 87330 VU19 RS06130 WP 002983882.1	M.CQNCNINEST.....I	13
NTDB id 378 SMU RS02690 WP 002263569.1	M.CQNCKINEAT.....I	13
NTDB id 85 BSU 00860 NP 387967.1	..MMFGRFTEAQQKVLALAQEEALRLGHNNIGTEHILLGLVREGEGLAAKALQALGLGSEKIQKEVESLIG.....RGQEMS	75
NTDB id 610 V4T04 RS10165 WP 012897346.1	MKFENIKYPTTLDRILEKAEYYAHQYQYGTIESAHLLEAMATTSGSLAYSLLAGMNVDSDDLIDL.....EDLSSHVKVKR	77
NTDB id 290 KZH43 RS10025 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 289 SPD RS10700 WP 001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 287 SP RS11210 WP 001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE.....EVALELTETDYSQDET	75
NTDB id 377 SMU RS09275 WP 002262344.1	...MTDYSLKMQEVFRLAQFEAARFESSYLESWHVLLAMVEIDSSVAGLSFAEFADVRVFEDYQAAAILAIGKKPKSSSN..DI	79
NTDB id 297 STER RS00545 WP 011680614.1	...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVTGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
NTDB id 329 STU RS10020 WP 011225298.1	...MTIYSRKMQAIFHRAQLEAERFESPFLFETWHVLLAMVEVPGSVAYLTFTDFEDRIHSEEIETA AVLAMEKRPKDLSESDI	81
consensus	**.....*	*

logo

NTDB id 601 KW2 RS02615 WP 021036805.1	HLTYTSVNGKQKQIDLCQNCYQI...MKS...TEALFGAGNASNGNS.....DEPFN.PFNDIFSALQGGQ.DFNGAASNQ	81
NTDB id 281 KZH43 RS03550 WP 000882517.1	HLTYTNLNGKQKQIDLCQNCYKI...KTDPNNSLFGKMTDLN.....NRDF.DPFGDFFNDLNNFRPSSN..TPP	77
NTDB id 245 SPD RS03860 WP 000882517.1	HLTYTNLNGKQKQIDLCQNCYKI...KTDPNNSLFGKMTDLN.....NRDF.DPFGDFFNDLNNFRPSSN..TPP	77
NTDB id 243 SPR RS03635 WP 000882517.1	HLTYTNLNGKQKQIDLCQNCYKI...KTDPNNSLFGKMTDLN.....NRDF.DPFGDFFNDLNNFRPSSN..TPP	77
NTDB id 241 SP RS04015 WP 000882523.1	HLTYTNLNGKQKQIDLCQNCYKI...KTDPNNSLFGKMTDLN.....NRDF.DPFGDFFNDLNNFRPSSN..TPP	77
NTDB id 87330 VU19 RS06130 WP 002983882.1	HLTYTSVNGKQKQIDLCQNCYQI...MKSDPANSTLNGLTPGYRAQ.....DRSTSPFFDDFFFGDLNNFRAFGN..LPN	81
NTDB id 378 SMU RS02690 WP 002263569.1	HLTYANVNGKQKQIDLCQNCYQI...MKTDPENGPLNHLSSQ...N.....SSSINPFFDDFFFGDLNNFRAFGNQDLPN	80
NTDB id 85 BSU 00860 NP 387967.1	QTIHYTPRAKKVIELSMDEARKLGHSYVCTEHLILGLIREGEGVAARVLNNLGVSLNKARQQVLQL.....LCSNET....	147
NTDB id 610 V4T04 RS10165 WP 012897346.1	STLRFSPRAHEVMTAASFLAIHNNSEAVCTEHLIYALIQVEDGFGLQLLKL.....QKINIVSLRKELEKRTGLKVPESKK	153
NTDB id 290 KZH43 RS10025 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVAHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 289 SPD RS10700 WP 001109677.1	TELPFSRRLQILFDEAEYVASVVAHAKVLGTEHVLYAILHDGNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 287 SP RS11210 WP 001109712.1	TELPFSRRLQVLFDDEAEYVASVVAHAKVLGTEHVLYAILHDSNALATRILERAGFSYEDKKDQVKIAALRRNLEERAGWTREDLKA	160
NTDB id 377 SMU RS09275 WP 002262344.1	MLEQSHALKITLAEAAAISQVTHAKEVCTEHLVLFAMLLNPNLLATRILELVGFHAKDDGESIRLLDLRKVIERYAGFSKEDIKA	164
NTDB id 297 STER RS00545 WP 011680614.1	DIRAQSPALEAMIQEAQEIASVTGAVEVGEHVLMFLLHKDLMVCRLLLEVAGFYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
NTDB id 329 STU RS10020 WP 011225298.1	DIRAQSPALEAMIQEAQGIASVTGAVEVGEHVLMFLLHKDLMVCRLLLEVAGFYKDDSDKPRIIDLRRSLERNAGLSKQDLKA	166
consensus	* * * * *	* * * *

logo

NTDB id	601	KW2	RS02615	WP	021036805.1
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	87330	VU19	RS06130	WP	002983882.1
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					



478
484
484
484
484
491
485
542
551
546
546
546
549
552
552

logo

NTDB id	601	KW2	RS02615	WP	021036805.1
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	87330	VU19	RS06130	WP	002983882.1
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					

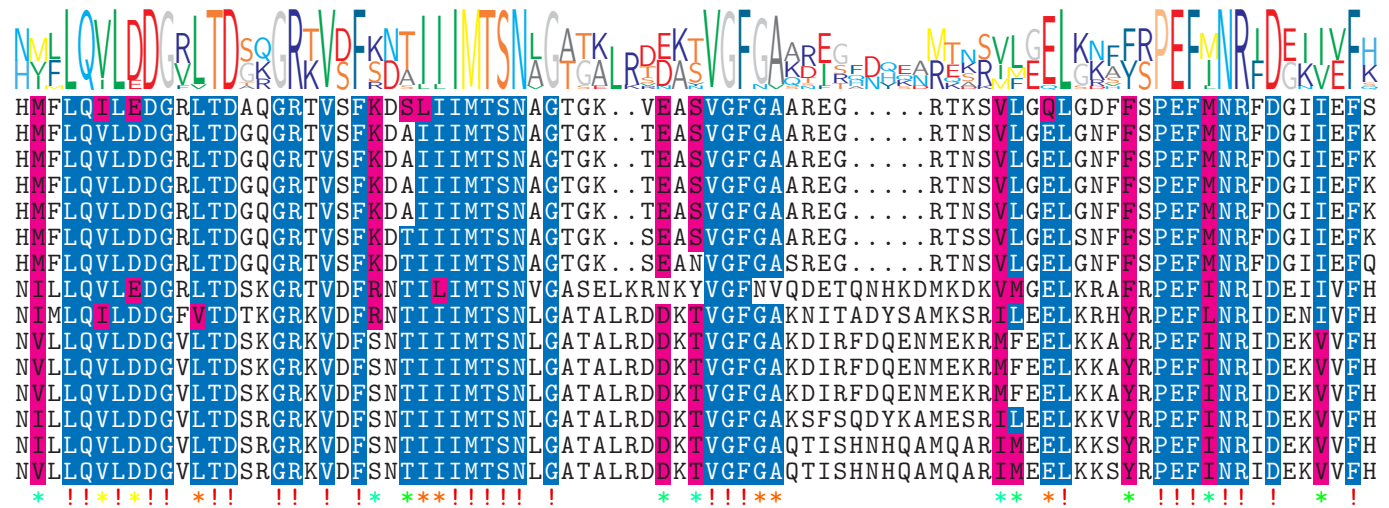


563
569
569
569
569
576
570
627
636
631
631
631
634
637
637

```

NTDB id 601 KW2 RS02615 WP 021036805.1
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 87330 VU19 RS06130 WP 002983882.1
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 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 87330 VU19 RS06130 WP 002983882.1
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	DKI	V	I	S	N	Q	T	Q	E	T	T	D	E	E	V	P	A	E	748
NTDB id 281 KZH43 RS03550 WP 000882517.1	K	C	N	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	752
NTDB id 245 SPD RS03860 WP 000882517.1	K	C	N	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	752
NTDB id 243 SPR RS03635 WP 000882517.1	K	C	N	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	752
NTDB id 241 SP RS04015 WP 000882523.1	K	C	N	I	Q	I	K	S	A	K	K	A	E	V	K	S	S	E	752
NTDB id 87330 VU19 RS06130 WP 002983882.1	S	E	N	I	T	I	K	A	V	K	E	G	D	S	F	L	N	E	760
NTDB id 378 SMU RS02690 WP 002263569.1	N	C	K	I	V	I	K	A	S	N	K	V	E	T	V	T	K	A	753
NTDB id 85 BSU 00860 NP 387967.1	D	C	E	F	V	V	K	T	T	A	K	T	N	.	.	.	.	.	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	N	K	K	I	K	I	A	Q	I	V	.	.	.	.	.	.	.	.	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	A	C	Q	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	810
NTDB id 289 SPD RS10700 WP 001109677.1	A	C	Q	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	810
NTDB id 287 SP RS11210 WP 001109712.1	A	C	Q	L	K	F	D	I	A	.	.	.	.	.	.	.	.	.	810
NTDB id 377 SMU RS09275 WP 002262344.1	K	E	K	L	K	F	D	I	V	.	.	.	.	.	.	.	.	.	813
NTDB id 297 STER RS00545 WP 011680614.1	K	D	K	L	T	F	T	V	V	.	.	.	.	.	.	.	.	.	816
NTDB id 329 STU RS10020 WP 011225298.1	K	D	K	L	T	F	T	V	V	.	.	.	.	.	.	.	.	.	816
consensus	*	*																	

-  non conserved
-  similar
-  ≥ 50% conserved