

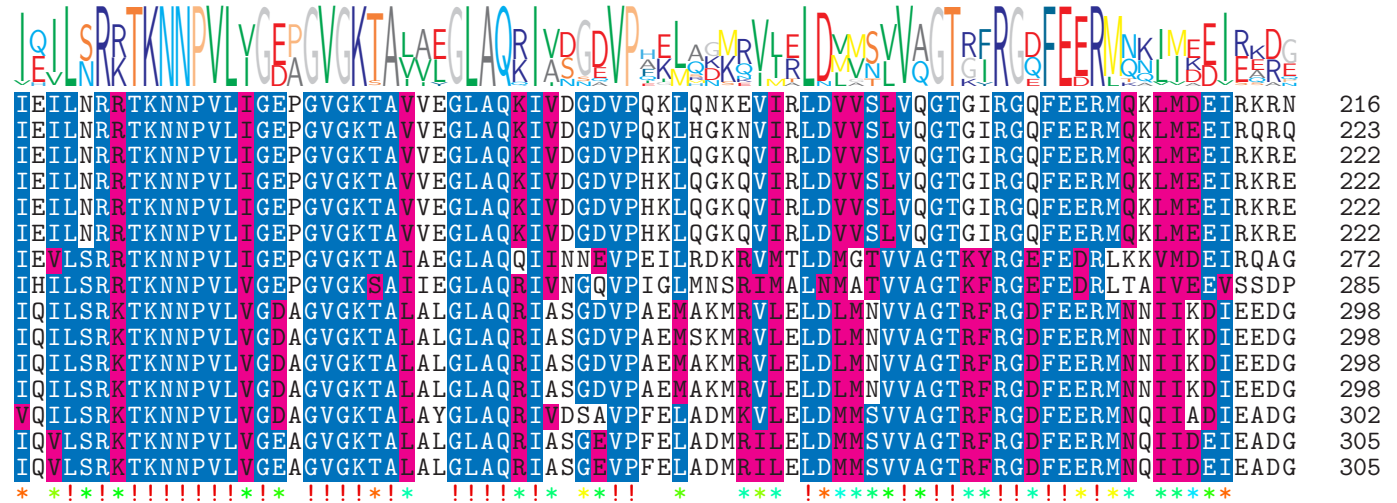
NTDB id	601	KW2	RS02615	WP	021036805.1	MLCQNCNINEA.....	11
NTDB id	378	SMU	RS02690	WP	002263569.1	MLCQNCKINEA.....	11
NTDB id	281	KZH43	RS03550	WP	000882517.1	MLCQNCKINDS.....	11
NTDB id	245	SPD	RS03860	WP	000882517.1	MLCQNCKINDS.....	11
NTDB id	243	SPR	RS03635	WP	000882517.1	MLCQNCKINDS.....	11
NTDB id	241	SP	RS04015	WP	000882523.1	MLCQNCKINDS.....	11
NTDB id	85	BSU	O0860	NP	387967.1	..MMFGRFT ERAQKVLALAQEEALRLGHNNIGTEHLLGLVREGEGIAAKALQALGLGSEKIQKEVESLI.....GR	70
NTDB id	610	V4T04	RS10165	WP	012897346.1	MKFENIKYPTLDRILEKAEEYAHQYQYGTTESAHLLAAMATTSGSTAYSLLAGMNVDSDDLII.....DLEDLSSH	72
NTDB id	287	SP	RS11210	WP	001109712.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id	1120579	EL096	RS08465	WP	050079620.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id	290	KZH43	RS10025	WP	001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id	289	SPD	RS10700	WP	001109677.1	MNYSKALNECIESAYMVAGHFGARYLESWHLLIAMSNHSYSVAGATLNDYPYEMDRLE....EVALELTETDYS	70
NTDB id	377	SMU	RS09275	WP	002262344.1	MTDYSLKMQEVRFLAQFEAAERFESSYLESWHVILLAMVEIDSSVAGLSFAEFEADVRFEDYQAAAAILAIGKKPKSSS	76
NTDB id	297	STER	RS00545	WP	011680614.1	MTIYSRKMQAIFHRAQLEAERFESPFILETWHVILLAMVEVTGSVAYLTFDTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
NTDB id	329	STU	RS10020	WP	011225298.1	MTIYSRKMQAIFHRAQLEAERFESPFILETWHVILLAMVEVPGSVAYLTFDTDFEDRIHSEEIETA AVLAMEKRPKDLS	76
consensus						*** * * * **	

Accession	Source	Length	Sequence	Score
NTDB id 601	KW2 RS02615 WP 021036805.1	141	...TIHLYTSVNGQKKQIDLCQNCYQI...MKS GG REALFGAGNASNGNSDE.....PFNP.FNDIFSALQGG	72
NTDB id 378	SMU RS02690 WP 002263569.1	70	...TIHLYANVNGQKKQIDLCQNCYQI...MKTD PP ENGPLNHLSQQNSSS.....INPFFD DF FGDLN NF	70
NTDB id 281	KZH43 RS03550 WP 000882517.1	69	...TIHLYTNLNGQKKQIDLCQNCYKI...IKTD PP NNSLFGKMTDLN NRDFDP.FG DF FNDL NNF	69
NTDB id 245	SPD RS03860 WP 000882517.1	69	...TIHLYTNLNGQKKQIDLCQNCYKI...IKTD PP NNSLFGKMTDLN NRDFDP.FG DF FNDL NNF	69
NTDB id 243	SPR RS03635 WP 000882517.1	69	...TIHLYTNLNGQKKQIDLCQNCYKI...IKTD PP NNSLFGKMTDLN NRDFDP.FG DF FNDL NNF	69
NTDB id 241	SP RS04015 WP 000882523.1	69	...TIHLYTNLNGQKKQIDLCQNCYKI...IKTD PP NNSLFGKMTDLN NRDFDP.FG DF FNDL NNF	69
NTDB id 85	BSU 00860 NP 387967.1	141	GQEMSQTIHYTPRAKKVIELSMDEARKLGHSYV CTE HL LL GLIREGEGVAARVLNNLGVSLNKARQQVLQL.....	141
NTDB id 610	V4T04 RS10165 WP 012897346.1	143	VKVKRSTLRFSPRAFEVMTAASFLAIHNNSEAV CTE HL LY ALLQVEDGFG LQ LKL.....QKINIVSRKET EKR	143
NTDB id 287	SP RS11210 WP 001109712.1	150	QDETFT EL PF SRR LQVL FDE A EY VASV VHAK VL CTE HL LY AILH HD GNALATRI LER AGFSYEDKKDQVKIAA LRN LEER	150
NTDB id 1120579	EL096 RS08465 WP 050079620.1	150	QDETFT EL PF SRR LQVL FDE A EY VASV VHAK VL CTE HL LY AILH HD GNALATRI LER AGFSYEDKKDQVKIAA LRN LEER	150
NTDB id 290	KZH43 RS10025 WP 001109677.1	150	QDETFT EL PF SRR LQVL FDE A EY VASV VHAK VL CTE HL LY AILH HD GNALATRI LER AGFSYEDKKDQVKIAA LRN LEER	150
NTDB id 289	SPD RS10700 WP 001109677.1	150	QDETFT EL PF SRR LQVL FDE A EY VASV VHAK VL CTE HL LY AILH HD GNALATRI LER AGFSYEDKKDQVKIAA LRN LEER	150
NTDB id 377	SMU RS09275 WP 002262344.1	154	N...D IM LEQSHALKRTLA AAAA ISQVTHAKEV CTE HL VL FAMLN PN LLATRI LE LVGFHAKDDGESIRLL DRK V TER Y	154
NTDB id 297	STER RS00545 WP 011680614.1	156	ESDI IDL RAQSPALEAM QEA QEIASVTGAVEV GS EHVLM AF LLHK DL LMVCR LE VAGFQYKDDSDKPRI IDL RRSLERN	156
NTDB id 329	STU RS10020 WP 011225298.1	156	ESDI IDL RAQSPALEAM QEA QGIASVTGAVEV GS EHVLM AF LLHK DL LMVCR LE VAGFQYKDDSDKPRI IDL RRSLERN	156
consensus			*** ** * * * * *	

```

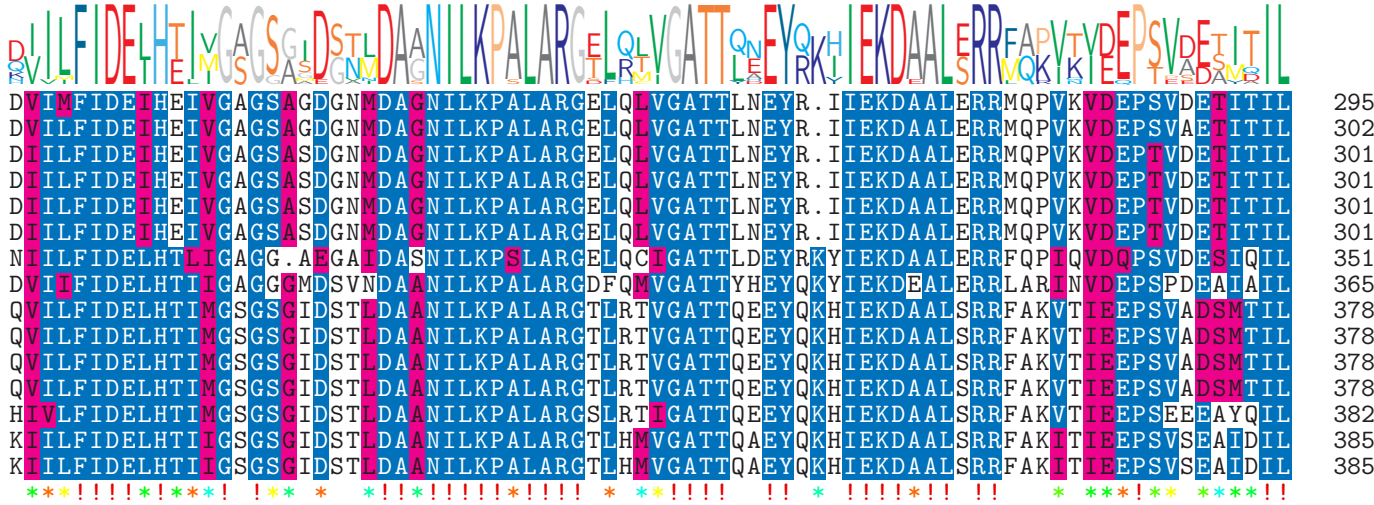
NTDB id 601 KW2 RS02615 WP 021036805.1
NTDB id 378 SMU RS02690 WP 002263569.1
NTDB id 281 KZH43 RS03550 WP 000882517.1
NTDB id 245 SPD RS03860 WP 000882517.1
NTDB id 243 SPR RS03635 WP 000882517.1
NTDB id 241 SP RS04015 WP 000882523.1
NTDB id 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 1120579 EL096 RS08465 WP 050079620.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
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

```



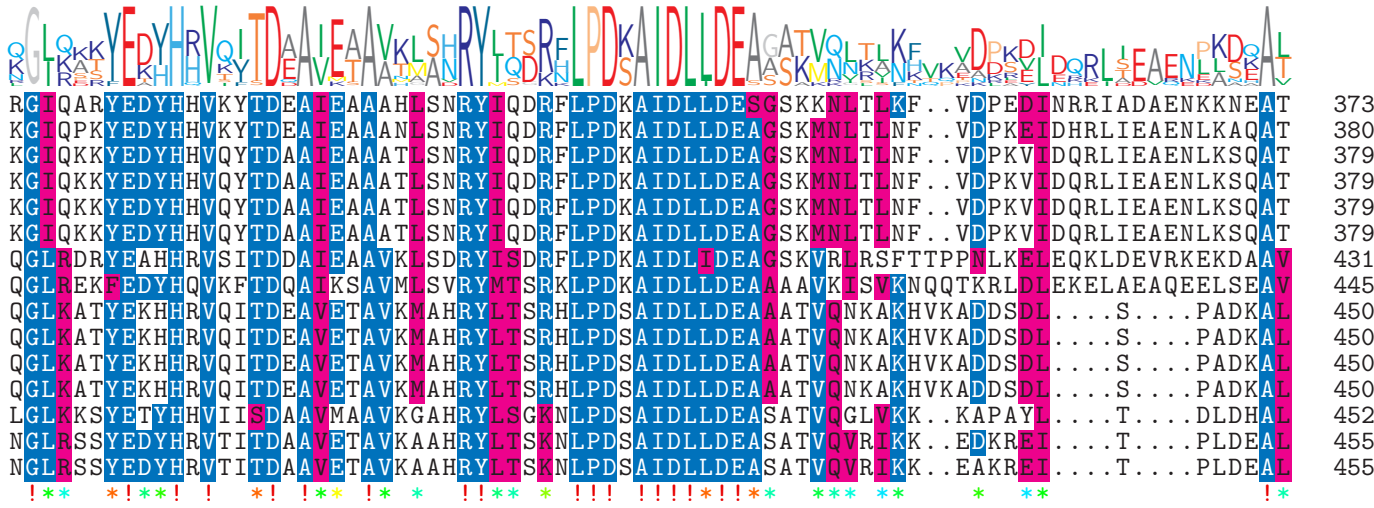
logo

NTDB	id	601	KW2	RS02615	WP	021036805.1
NTDB	id	378	SMU	RS02690	WP	002263569.1
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	85	BSU	00860	NP	387967.1
NTDB	id	610	V4T04	RS10165	WP	012897346.1
NTDB	id	287	SP	RS11210	WP	001109712.1
NTDB	id	1120579	EL096	RS08465	WP	050079620.1
NTDB	id	290	KZH43	RS10025	WP	001109677.1
NTDB	id	289	SPD	RS10700	WP	001109677.1
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	378	SMU	RS02690	WP	002263569.1
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	85	BSU	00860	NP	387967.1
NTDB	id	610	V4T04	RS10165	WP	012897346.1
NTDB	id	287	SP	RS11210	WP	001109712.1
NTDB	id	1120579	EL096	RS08465	WP	050079620.1
NTDB	id	290	KZH43	RS10025	WP	001109677.1
NTDB	id	289	SPD	RS10700	WP	001109677.1
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 378 SMU RS02690 WP 002263569.1
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 85 BSU 00860 NP 387967.1
NTDB id 610 V4T04 RS10165 WP 012897346.1
NTDB id 287 SP RS11210 WP 001109712.1
NTDB id 1120579 EL096 RS08465 WP 050079620.1
NTDB id 290 KZH43 RS10025 WP 001109677.1
NTDB id 289 SPD RS10700 WP 001109677.1
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	VDLGYNPAMGARPLRRTIQENTEDSADFYIEHPEYKQ.LVADLIDDKIVISNQTQETAETTDDEEVP	748
NTDB id 378 SMU RS02690 WP 002263569.1	VDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKE.LKAIMTSNCKIVIKASNK.VETVTKATSD.	753
NTDB id 281 KZH43 RS03550 WP 000882517.1	VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKCNIQIKSAKK.AEVKSSEKEK.	752
NTDB id 245 SPD RS03860 WP 000882517.1	VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKCNIQIKSAKK.AEVKSSEKEK.	752
NTDB id 243 SPR RS03635 WP 000882517.1	VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKCNIQIKSAKK.AEVKSSEKEK.	752
NTDB id 241 SP RS04015 WP 000882523.1	VDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKD.LKAVMTSKCNIQIKSAKK.AEVKSSEKEK.	752
NTDB id 85 BSU 00860 NP 387967.1	AEEGVLDLEYGARPLRRAIQKHVEDRLSEELRLGNTHKQQHIVLDVEDGEFVVVKTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	AEVGFDPYEGARPLRKALQKEVEDLLSEQLLSGEIKACNHVSTGASNKKIKIAQIV.....	816
NTDB id 287 SP RS11210 WP 001109712.1	ANQGYDPEMGARPLRRTIQTEVEDKLAELLLKCDIVAGSTLKI GVKACQLKFDIA.....	810
NTDB id 1120579 EL096 RS08465 WP 050079620.1	ANQGYDPEMGARPLRRTIQTEVEDKLAELLLKCDIVAGSTLKI GVKACQLKFDIA.....	810
NTDB id 290 KZH43 RS10025 WP 001109677.1	ANQGYDPEMGARPLRRTIQTEVEDKLAELLLKCDIVAGSTLKI GVKACQLKFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	ANQGYDPEMGARPLRRTIQTEVEDKLAELLLKCDIVAGSTLKI GVKACQLKFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	ALAGYDAEMGARPLRRTIQTEVEDKLAELLLSCKLASGQTLKIGIQKEKIKFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	AKDGYDIEMGARPLRRTIQTEVEDKLAELLLGQGVVSGQTLKIGCSKDKITFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	AKDGYDIEMGARPLRRTIQTEVEDKLAELLLGQGVVSGQTLKIGCSKDKITFTVV.....	816
consensus	* !*****!!!!!!*!! *!! *** * * * * * * * * *	

- non conserved
- similar
- ≥ 50% conserved