

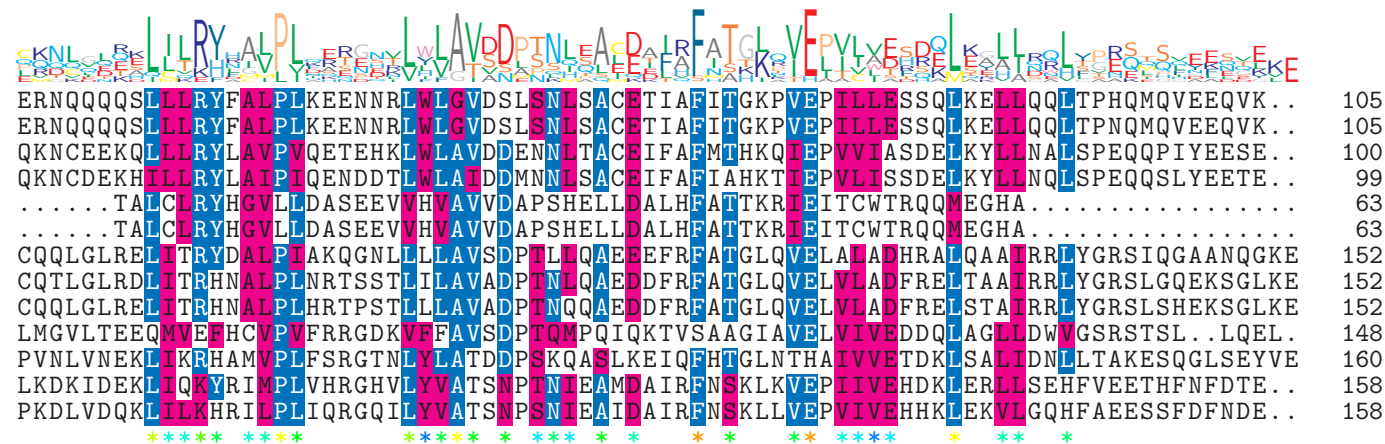
NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 63663 AABJ53 RS11030 WP 338381017.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus



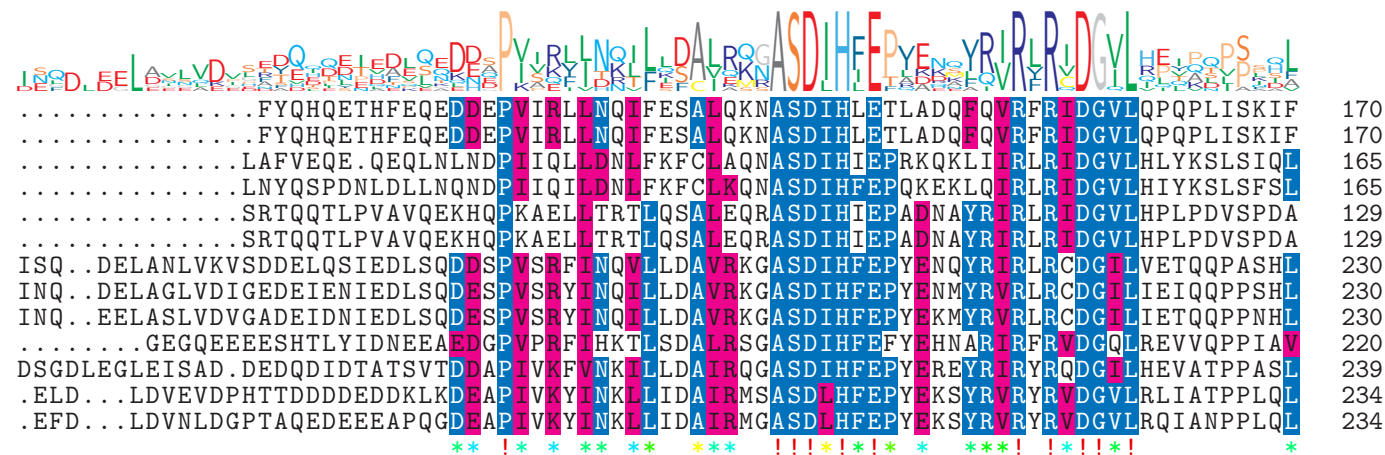
```

NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 63663 AABJ53 RS11030 WP 338381017.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```



NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 63663 AABJ53 RS11030 WP 338381017.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus



NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 63663 AABJ53 RS11030 WP 338381017.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```

NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 63663 AABJ53 RS11030 WP 338381017.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

```

NTDB id 1366 NTHI RS01950 WP 011271972.1
NTDB id 1355 HI 0298 AAC21962.1
NTDB id 1384 A4U84 RS08525 WP 010787006.1
NTDB id 1468 ASU2 RS05090 WP 014991734.1
NTDB id 63663 AABJ53 RS11030 WP 338381017.1
NTDB id 1436 BW25113 RS00530 WP 001025145.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
NTDB id 1401 DSB67 RS12665 WP 010643259.1
NTDB id 1293 VP RS12240 WP 005479695.1
NTDB id 1110 NGFG RS09235 WP 003689817.1
NTDB id 1251 GC085 RS07725 WP 011946523.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

NTDB	id	1366	NTHI	RS01950	WP	011271972.1	L	INSC	DCH	QGYRGRIGVYQFLHWQQN	GY		Q	T	D	F	E	N	L	R	S		441																																																									
NTDB	id	1355	HI	0298	AAC21962.1		L	ANSC	DCH	QGYRGRIGVYQFLHWQQN	DY		Q	T	D	F	E	N	L	R	S		441																																																									
NTDB	id	1384	A4U84	RS08525	WP	010787006.1	G	C	..D	ECY	QGYRGRIGVYQCLSR	TAK		K	F	D	K	T	A	Y	L	D	F	S	S	L	R	S		439																																																		
NTDB	id	1468	ASU2	RS05090	WP	014991734.1	G	C	..D	NCY	HGYKGRIGVYQLLAKQ	GK		F	F	E	K	S	T	A	Y	L	D	F	S	S	L	R	S		439																																																	
NTDB	id	63663	AABJ53	RS11030	WP	338381017.1	I.....	P	D	N	V	W	P	S	P	L	P	H	W	Q	A	P	G	..V	H	C	Y	H	G	F	Y	G	R	T	A	L	F	E	V	L	P	I	T	P	V	I	R	Q	L	I	S	A	N	T	D	V	E	S	L	E	T	H	A	R	Q	A	G	M	R	T	L	F	E	N		436				
NTDB	id	1436	BW25113	RS00530	WP	001025145.1	I.....	P	D	N	V	W	P	S	P	L	P	H	W	Q	A	P	G	..V	H	C	Y	H	G	F	Y	G	R	T	A	L	F	E	V	L	P	I	T	P	V	I	R	Q	L	I	S	A	N	T	D	V	E	S	L	E	T	H	A	R	Q	A	G	M	R	T	L	F	E	N		436				
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	LLQSQFA	F	Q	P	N	E	I	...	Y	E	A	N	A					G	..N	E	C	T	G	G	Y	S	G	R	V	G	I	Y	E	V	M	A	F	N	T	E	L	A	E	A	I	M	Q	R	A	S	I	H	E	R	L	A	K	A	N	G	M	Q	T	L	Q	E	S		541					
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	QLQH	.	I	G	I	A	N	T	E	I	...	F	Q	A	N	P	D	G	..N	E	C	T	H	G	Y	S	G	R	T	G	I	Y	E	V	M	K	F	D	E	S	L	S	E	A	L	I	K	A	S	V	H	E	L	E	K	L	A	I	A	N	G	M	Q	T	L	Q	M	S		540				
NTDB	id	1293	VP	RS12240	WP	005479695.1	QLQH	.	L	G	I	Q	T	T	D	N	I	...	F	R	A	N	P	D	G	..N	E	C	T	H	G	Y	S	G	R	T	G	I	Y	E	V	M	R	F	D	E	S	L	S	E	A	L	I	K	A	S	V	H	E	L	E	K	L	A	I	A	N	G	M	Q	T	L	Q	M	S		540			
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	SALKEV	G	F	T	D	E	D	L	A	K	.	D	W	K	L	Y	R	A	V	G	..D	R	C	R	G	Q	G	Y	K	G	R	A	G	V	Y	E	V	M	P	I	S	E	E	M	Q	R	V	I	M	N	N	G	T	E	V	G	I	L	D	V	A	Y	K	E	G	M	V	D	L	R	R	A		537
NTDB	id	1251	GC085	RS07725	WP	011946523.1	QGLIEL	G	F	K	E	A	D	L	V	.	N	L	K	L	Y	K	A	V	G	..E	Q	C	T	S	G	Y	R	G	R	V	G	L	F	E	V	L	P	M	T	K	E	L	G	Q	L	I	M	S	G	G	N	S	L	D	I	L	K	L	A	Q	S	E	G	M	L	T	I	F	Q	S		553		
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	RSLL	E	M	G	F	T	P	E	D	L	A	Q	P	E	F	Q	I	F	E	P	V	G	..H	D	C	R	E	G	Y	K	G	R	V	G	I	Y	E	V	M																																			

NTDB	id	1366	NTHI	RS01950	WP	011271972.1	GLEKVSQGITDEKEIERVLGKNS..	464
NTDB	id	1355	HI	0298	AAC21962.1		GLEKVSQGITDEKEIERVLGKNL..	464
NTDB	id	1384	A4U84	RS08525	WP	010787006.1	AKQKIEQGITTNETEVDRLVGYE...	461
NTDB	id	1468	ASU2	RS05090	WP	014991734.1	AEQKLAANITTVDEVKRVLDG...	461
NTDB	id	63663	AABJ53	RS11030	WP	338381017.1	GCLAVEQGLTTFEELIRVLGMPHGE	461
NTDB	id	1436	BW25113	RS00530	WP	001025145.1	GCLAVEQGLTTFEELIRVLGMPHGE	461
NTDB	id	1168	A1552VC	RS11070	WP	000957200.1	GLEKLRGGITSFALQRVLYF....	562
NTDB	id	1401	DSB67	RS12665	WP	010643259.1	GIEKLKQGITSFRELQRVLYF....	561
NTDB	id	1293	VP	RS12240	WP	005479695.1	GIEKLKQGITSFSELQRVLYF....	561
NTDB	id	1110	NGFG	RS09235	WP	003689817.1	GILKIMQGITSLEEVNTANTND....	558
NTDB	id	1251	GC085	RS07725	WP	011946523.1	GIEKVKEGITITIEEVNRVTVD....	574
NTDB	id	1018	ACIAD	RS01685	WP	004920473.1	GLKKVMQGVTSLQEINRVTSE....	570
NTDB	id	1058	ABD1	RS01615	WP	001274986.1	GLKKVMQGVTSLQEVNRVTSE....	570
consensus							*****!*****!*****	

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