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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 26503 B21 RS00555 WP 001025145.1
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

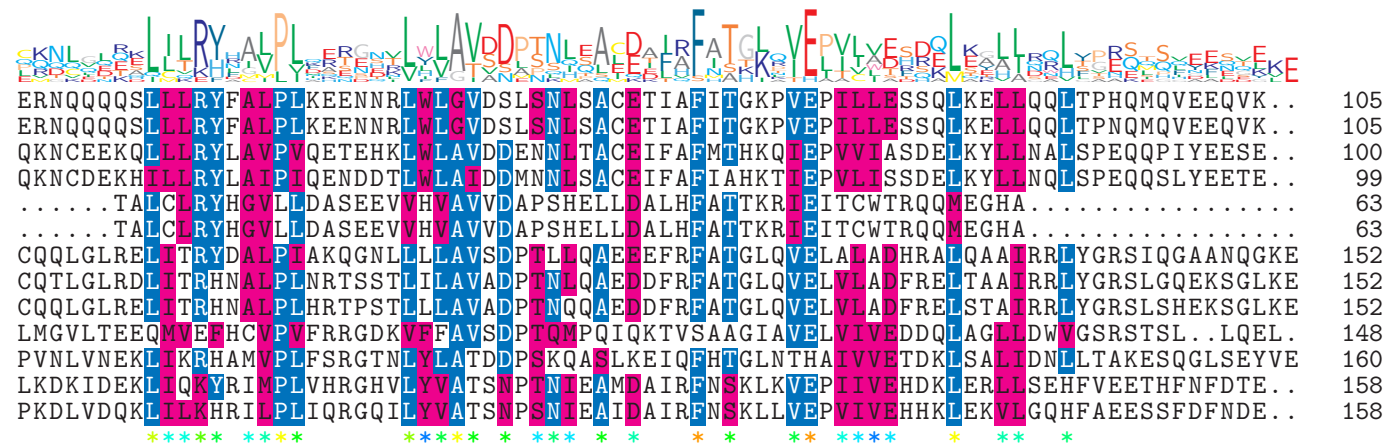
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

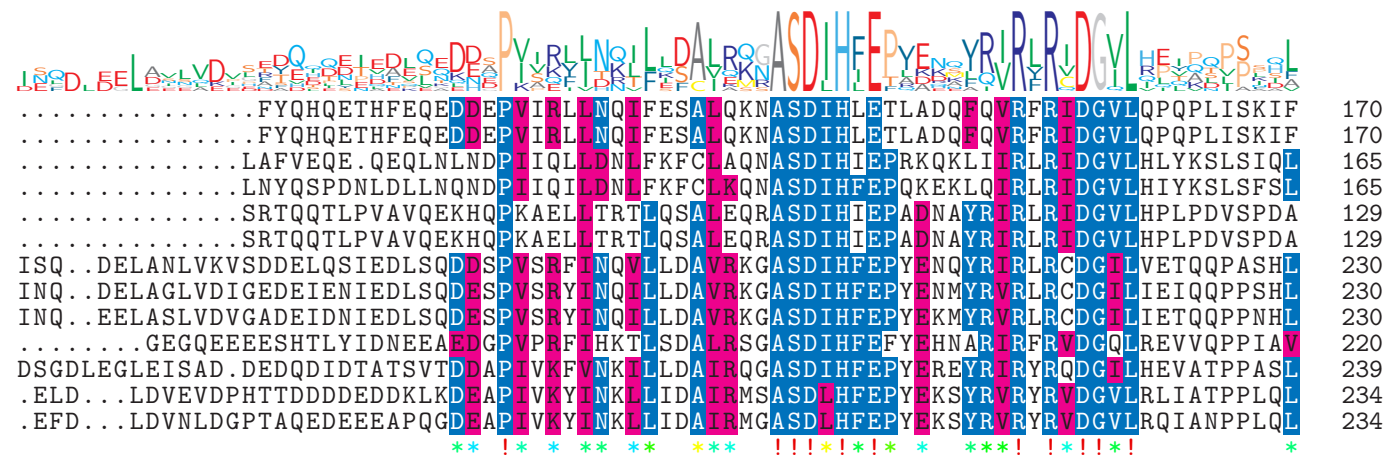
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NTDB id 1468 ASU2 RS05090 WP 014991734.1
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NTDB id 1018 ACIAD RS01685 WP 004920473.1
NTDB id 1058 ABD1 RS01615 WP 001274986.1
consensus

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logo

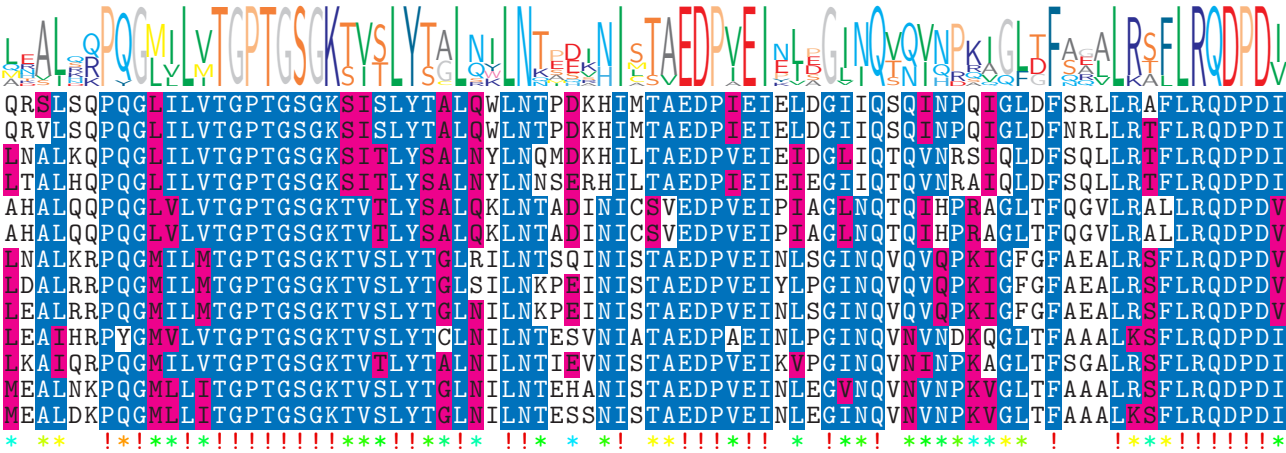
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| NTDB      | id | 1436  | BW25113 | RS00530 | WP         | 001025145.1 |
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| NTDB      | id | 1110  | NGFG    | RS09235 | WP         | 003689817.1 |
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| NTDB      | id | 1058  | ABD1    | RS01615 | WP         | 001274986.1 |
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|-----------|----|-------|---------|---------|------------|-------------|
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| consensus |    |       |         |         |            |             |



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|------|----|-------|---------|---------|------------|-------------|---------|------|-----|--------------------|------------------|-------|-------|-----|---|---|---|-----|---|---|---|-----|-----|-----|---|-----|-----|---|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|-----|---|-----|-----|-----|
| 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 | 26503 | B21     | RS00555 | 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 | 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 | 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 | Q | 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |     |   |     |     |     |

|           |    |       |         |         |            |             |                            |     |
|-----------|----|-------|---------|---------|------------|-------------|----------------------------|-----|
| NTDB      | id | 1366  | NTHI    | RS01950 | WP         | 011271972.1 | GLEKVSQGITDEKEIERVLGKNS..  | 464 |
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| NTDB      | id | 26503 | B21     | RS00555 | WP         | 001025145.1 | GCLAVEQGLTTFEELIRVLGMPHGE  | 461 |
| NTDB      | id | 1436  | BW25113 | RS00530 | WP         | 001025145.1 | GCLAVEQGLTTFEELIRVLGMPHGE  | 461 |
| NTDB      | id | 1168  | A1552VC | RS11070 | WP         | 000957200.1 | GLEKLREGITSFAELQRVLYF....  | 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 |
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| consensus |    |       |         |         |            |             | *****!*****!*****          |     |

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