

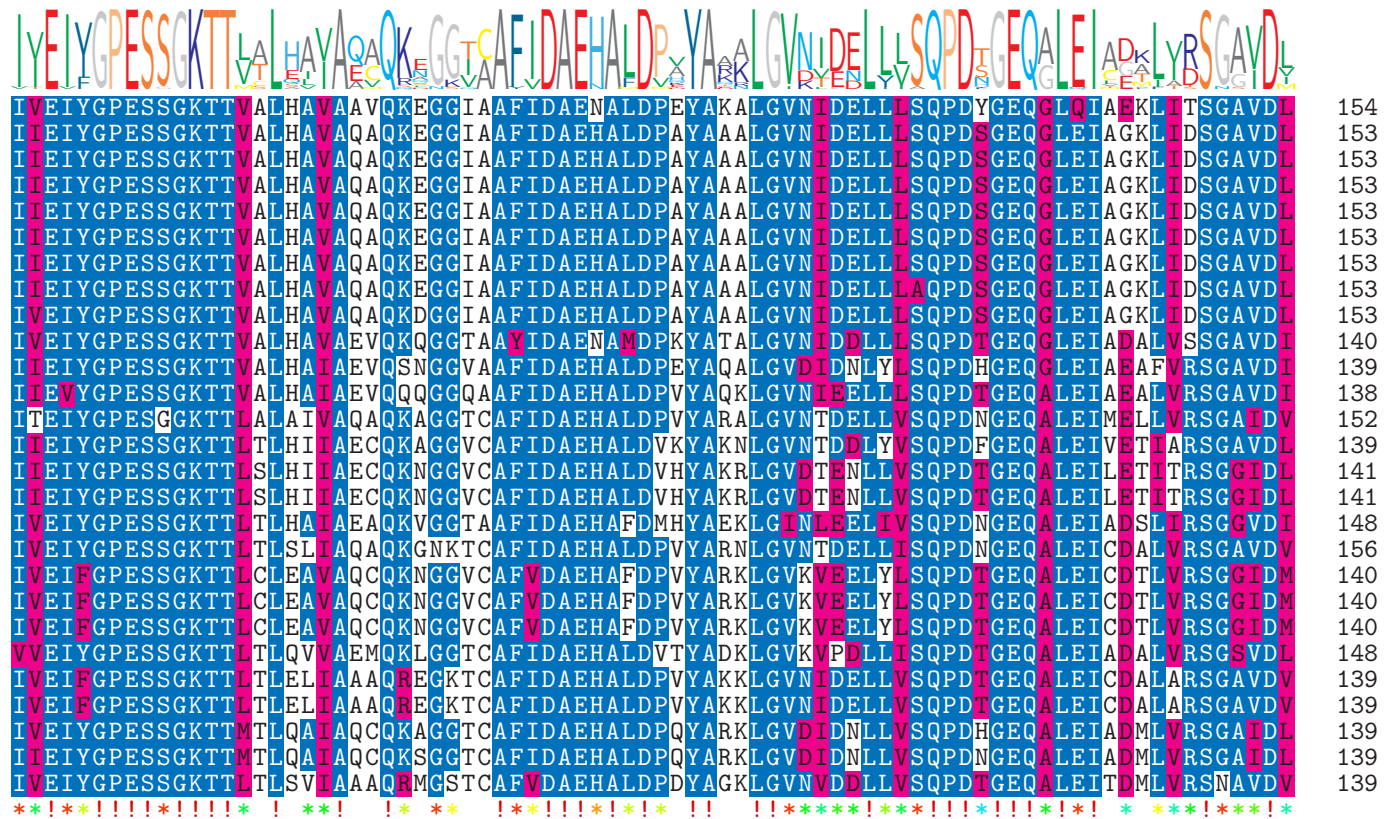
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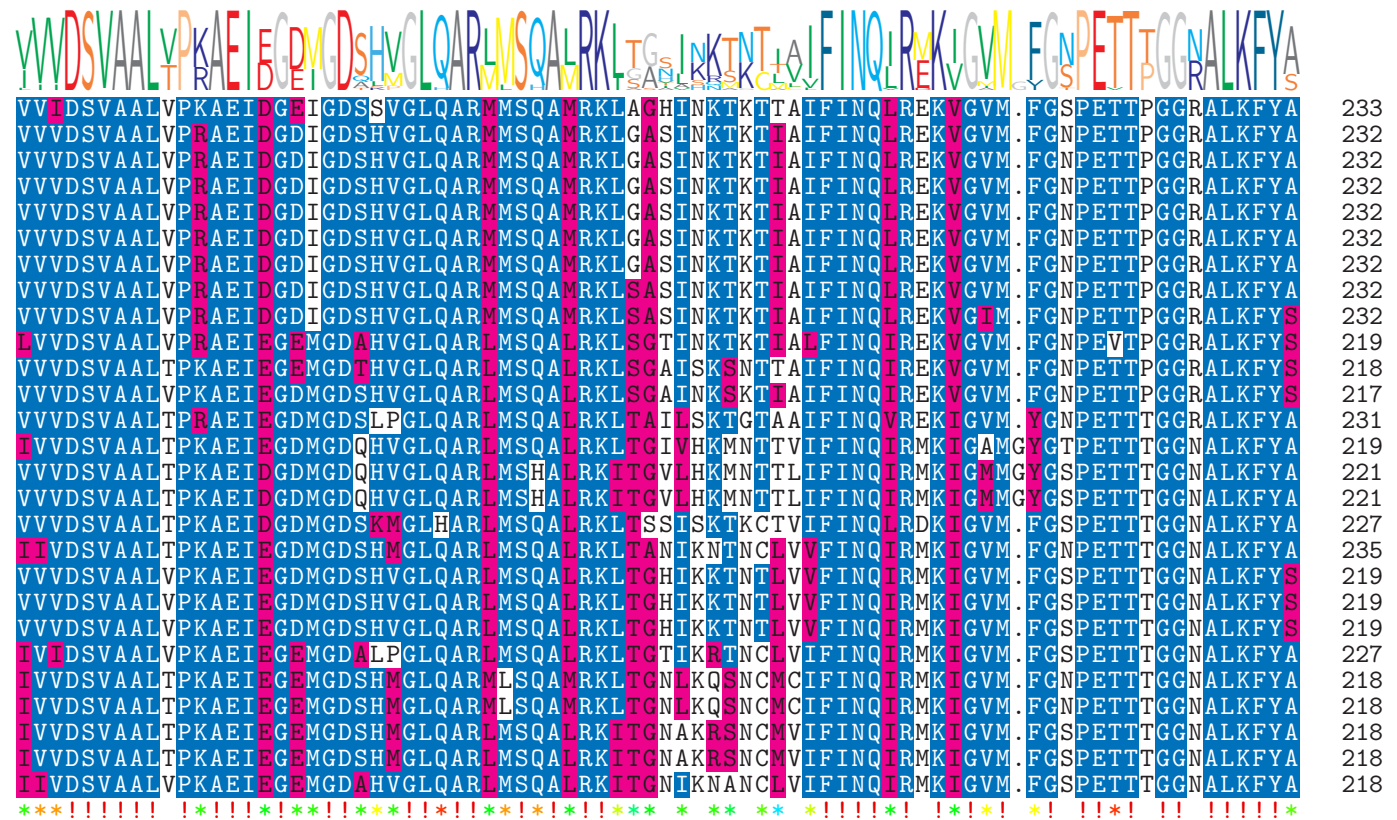
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|-------|-----|---|----|----|-----|----|----|---|-----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|---|----|---|----|---|---|---|---|---|---|---|---|---|---|----|----|----|
| MATK  | ... | K | K  | T  | F   | D  | D  | I | T   | K  | K  | Y  | G  | A  | E | R | D | K | A | L | A | D | A | L | A | L | I | E | K | D | F | G | K | S | I | M | R | L | G | E | A | . | A | N | Q | K | V | S | V | S | S  | G | S | L | A | L  | D | I  | A | L | G | A | G | G | Y | P | K | R | 74 |    |    |
| .MAK  | ... | K | P  | K  | K   | L  | E  | E | I   | S  | K  | K  | F  | G  | A | E | R | E | K | A | L | N | D | A | L | K | L | I | E | K | D | F | G | K | S | I | M | R | L | G | E | R | . | A | E | Q | K | V | Q | V | M  | S | S | G | S | L  | A | L  | D | I | A | L | G | S | G | G | Y | P | K  | R  | 73 |
| .MAK  | ... | K | P  | K  | K   | L  | E  | E | I   | S  | K  | K  | F  | G  | A | E | R | E | K | A | L | N | D | A | L | K | L | I | E | K | D | F | G | K | S | I | M | R | L | G | E | R | . | A | E | Q | K | V | Q | V | M  | S | S | G | S | L  | A | L  | D | I | A | L | G | S | G | G | Y | P | K  | R  | 73 |
| .MAK  | ... | K | P  | K  | K   | L  | E  | E | I   | S  | K  | K  | F  | G  | A | E | R | E | K | A | L | N | D | A | L | K | L | I | E | K | D | F | G | K | S | I | M | R | L | G | E | R | . | A | E | Q | K | V | Q | V | M  | S | S | G | S | L  | A | L  | D | I | A | L | G | S | G | G | Y | P | K  | R  | 73 |
| .MAK  | ... | K | P  | K  | K   | L  | E  | E | I   | S  | K  | K  | F  | G  | A | E | R | E | K | A | L | N | D | A | L | K | L | I | E | K | D | F | G | K | S | I | M | R | L | G | E | R | . | A | E | Q | K | V | Q | V | M  | S | S | G | S | L  | A | L  | D | I | A | L | G | S | G | G | Y | P | K  | R  | 73 |
| .MAK  | ... | K | P  | K  | K   | L  | E  | E | I   | S  | K  | K  | F  | G  | A | E | R | E | K | A | L | N | D | A | L | K | L | I | E | K | D | F | G | K | S | I | M | R | L | G | E | R | . | A | E | Q | K | V | Q | V | M  | S | S | G | S | L  | A | L  | D | I | A | L | G | S | G | G | Y | P | K  | R  | 73 |
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| ..... | MSK | D | A  | T  |     |    |    |   |     |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |   |   |    |   |    |   |   |   |   |   |   |   |   |   |   |    |    |    |

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consensus



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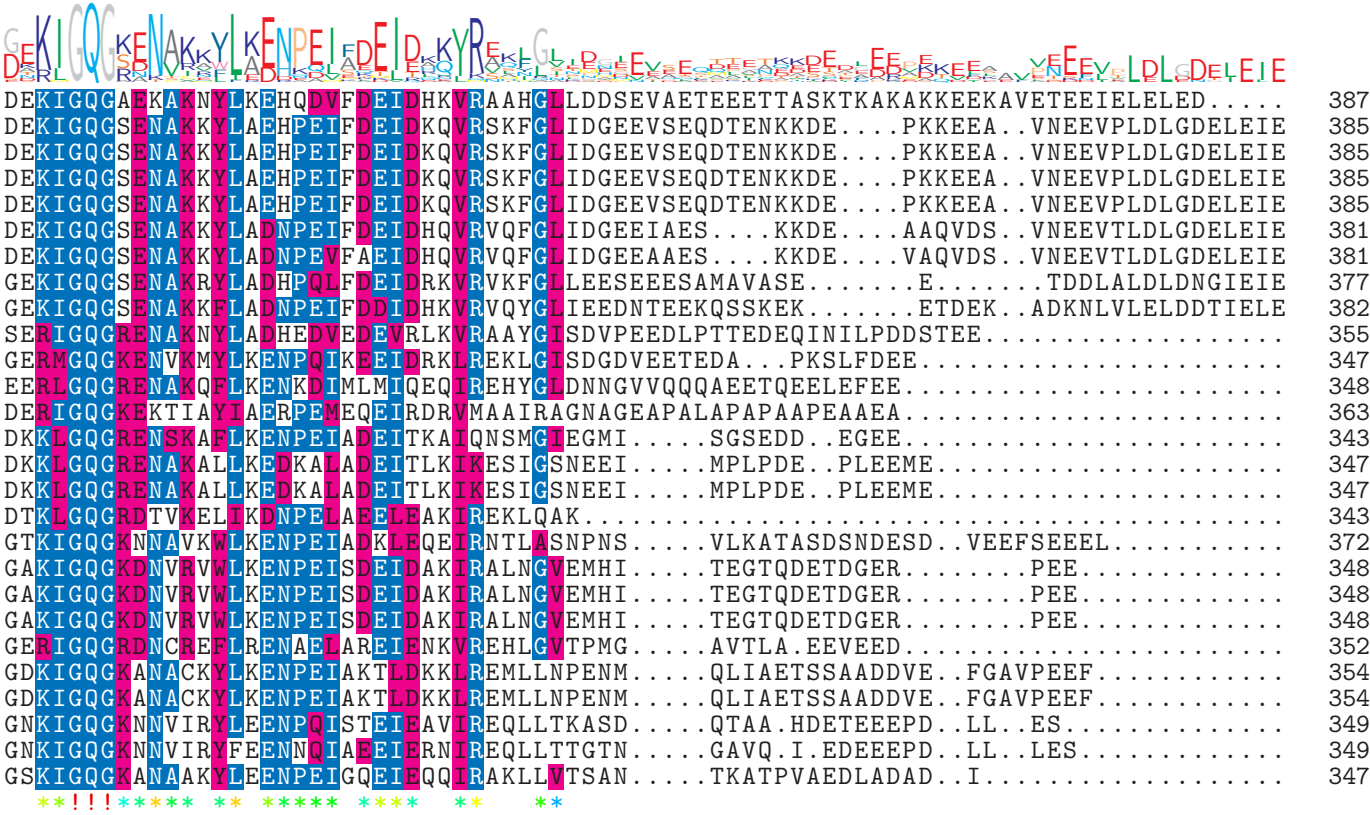
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| NTDB id 499 SM12261 RS08315 WP 078228268.1  | SVRLDVRGSTQIKGTG.DQKDTNKGKETKIKVVKNKVAPPFKEAFVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK    | 311 |
| NTDB id 527 SMSK321 RS11065 WP 001085454.1  | SVRLDVRGSTQIKGTG.DQKDTNKGKETKIKVVKNKVAPPFKEAFVEIMYGGEGISKTGELLKIASDLDIKKAGAWYSYK    | 311 |
| NTDB id 453 Spy49 1753c ACI62003.1          | SVRLDVRGTTQIKGTG.DQKDSIGKETKIKVVKNKVAPPFKEAEVEIMYGGEGISRTGELVKIASDLDIQKAGAWFSYN     | 311 |
| NTDB id 408 SMU RS09530 WP 002262392.1      | SVRLDVRGNTQIKGTG.EQKDSNIGKETKIKVVKNKVAPPFKEAFVEIIMYGGEGISRTGELVKIASDLGIQKAGAWYSYN   | 311 |
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| NTDB id 45713 FPG46 RS07125 WP 000368166.1  | SVRLEVRRAEQLKQGQ.....EIVGNRTKIKVVKNKVAPPFRVAEVDIMYGGGISKEGELIDLGVENDIVDKSGAWYSYN    | 293 |
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| consensus                                   | *!!**!* * ** *****!*****!!*!!*!!* * *****!*!*** ***** ** *** ! !*****!              |     |



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|                                             |     |     |     |
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| consensus                                   |     |     |     |

- X non conserved
- X similar
- X ≥ 50% conserved