

```

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 312279 D1095 RS01040 WP 005613635.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
consensus

```

ELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKGKYLEVVISK.LKADEKPKPKSVLEK155
 ELLKTDVADDKLYLLDVKDFSTPVESVEVFRKEPSTQLVVTVDGEFQHDYTLKGKYLEVVISK.LKADEKPKPKSVLEK155
 DLLNTSVKDDQLYLLDVKDFSTPVESVEVFRDTSSTRLVAYIDEDYSHDYRLTGRYLEVKGVK.LKANEKAPDKSILDKE156
MKKYFLKCGYFLVCFCLPLIVFANP.....KTD28
MKKYFLKCGYFLVCFCLPLIVFANP.....KTD28
MRKM.....IWL LFFILTP.....VMA17
MRV.....LFL LFFATFP.....VLA16
 * * * * * ! * *

```
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 312279 D1095 RS01040 WP 005613635.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
consensus
```

[illegible]

```
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 312279 D1095 RS01040 WP 005613635.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
consensus
```

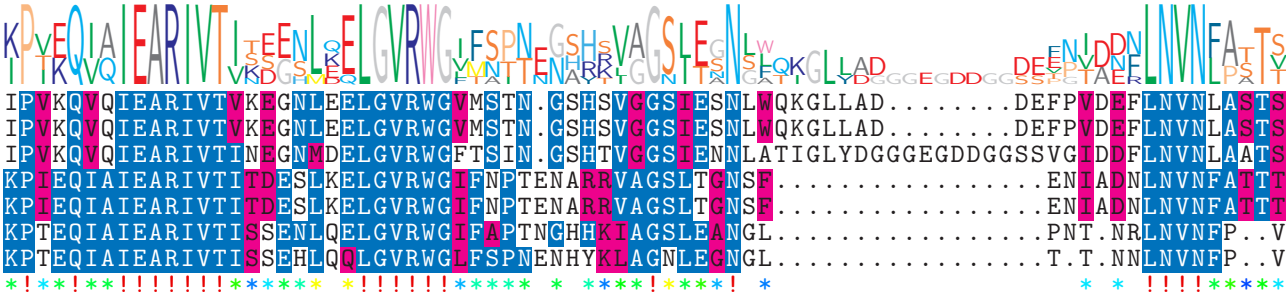
The sequence logo displays the conservation of amino acids at each position of the protein. The y-axis represents the information content in bits, ranging from 0 to 1.6. The x-axis shows the positions from 1 to 170. Amino acids are color-coded: red for aromatic/hydrophobic, green for aliphatic, blue for basic/polar, orange for acidic, purple for sulfur-containing, yellow for amide, cyan for hydroxyl, pink for glycine/proline, and grey for unknown.

Species	Position	Amino Acid
Human	1-170	EKQALEKARLAEEELGDLKSEIKINFAKASDIAAMIGGECNVNMLSERGSISIDERTNSLLIRELPDNIAVIREIIIESLD
Rat	1-170	EKQALEKARLAEEELGDLKSEIKINFAKASDIAAMIGGECNVNMLSERGSISIDERTNSLLIRELPDNIAVIREIIIESLD
Mouse	1-170	EKQALEKARLAEEELGDLKSEIKINFAKASDIAAMIGGECNVNMLSERGSISIDERTNSLLIRELPDNIAVIREIIIESLD
Dog	1-170	VAGNLT...TNEPHLVSHTVKLHFPAKASELMKSLT.TGSGSLLSPAGSITFDDRSNLLVIQDEPRSVQNKKLIAEMD
Pig	1-170	VAGNLT...TNEPHLVSHTVKLHFPAKASELMKSLT.TGSGSLLSSAGSITFDDRSNLLVIQDEPRFVQNKKLIAEMD
Cow	1-170	TAIGNV...SDLLKPKLITKTIKLDYAKAAEVIEESLT.KGSGHFLSENGYLHFDDRSNSLIHKDSPEMKNIVQLIRNLND
Horse	1-170	TTAQLV...NALPKLITKTIKLHYSKASEVIEESLT.KCGCNLSESGYLHFDDRSNSIIVKD SAASVKNFQTQLIESLD

* * * * *

logo

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 312279 D1095 RS01040 WP 005613635.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
consensus



386
386
395
245
245
232
229

logo

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 312279 D1095 RS01040 WP 005613635.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
consensus



465
465
474
324
324
311
308

logo

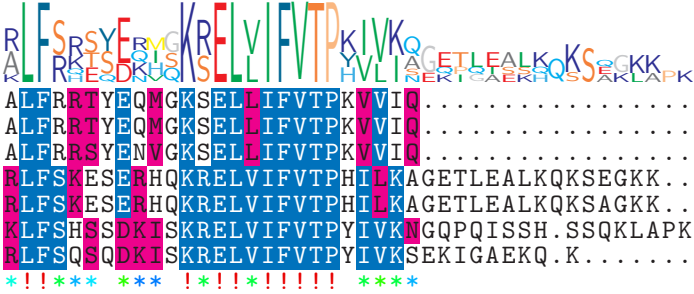
NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 312279 D1095 RS01040 WP 005613635.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
consensus



545
545
554
404
404
390
385

logo

NTDB id 1186 GTF74 RS01320 WP 000788426.1
NTDB id 1175 A1552VC RS12105 WP 000788426.1
NTDB id 1408 DSB67 RS13980 WP 010643500.1
NTDB id 1347 HI 0435 AAC22094.1
NTDB id 1373 NTHI RS02645 WP 011272046.1
NTDB id 312279 D1095 RS01040 WP 005613635.1
NTDB id 1381 A4U84 RS02010 WP 021113424.1
consensus



571
571
580
445
445
432
420

☒ non conserved
☒ similar
☒ ≥ 50% conserved