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|---------------|-----------------------------|
| Email         | l.a.kelley@imperial.ac.uk   |
| Description   | P43674                      |
| Date          | Thu Jan 5 12:02:29 GMT 2012 |
| Unique Job ID | befdc98c827df089            |

|                     | 1                           | 10 | 20 | 30 | 40 | 50 | 60 |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|-----------------------------|----|----|----|----|----|----|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequence            | M                           | K  | N  | T  | K  | L  | L  | L | A | I | A             | T | S | A | A | L | L | T | G | C | Q             | N | T | H | G | I | D | T | N | M | A | I | S | S | G | L | N | A | Y | K | A | A | T | L | S | D | A | D | A | K | A | I | A | N | Q | G | C | A | E | M |
| Secondary structure | [Alpha Helix]               |    |    |    |    |    |    |   |   |   | [Alpha Helix] |   |   |   |   |   |   |   |   |   | [Alpha Helix] |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| SS confidence       | [Confidence Scale]          |    |    |    |    |    |    |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder            | [Disorder Prediction]       |    |    |    |    |    |    |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder confidence | [Disorder Confidence Scale] |    |    |    |    |    |    |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                     | 70                          | 80 | 90 | 100 | 110 | 120 |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|-----------------------------|----|----|-----|-----|-----|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequence            | D                           | S  | G  | N   | Q   | V   | A | S | K | S | S             | K | Y | G | K | R | L | A | K | I | A             | K | A | L | G | N | N | I | N | G | T | P | V | N | Y | K | V | Y | M | T | S | D | V | N | A | W | A | M | A | N | G | C | V | R | V | Y | S | G | L | M |
| Secondary structure | [Alpha Helix]               |    |    |     |     |     |   |   |   |   | [Alpha Helix] |   |   |   |   |   |   |   |   |   | [Alpha Helix] |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| SS confidence       | [Confidence Scale]          |    |    |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder            | [Disorder Prediction]       |    |    |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder confidence | [Disorder Confidence Scale] |    |    |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                     | 130                         | 140 | 150 | 160 | 170 | 180 |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|-----------------------------|-----|-----|-----|-----|-----|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequence            | D                           | M   | M   | N   | D   | N   | E | I | E | G | V             | L | G | H | E | L | G | H | V | A | L             | G | H | S | L | A | E | M | K | A | S | Y | A | I | V | A | A | R | D | A | I | S | A | T | S | G | V | A | S | Q | L | S | R | S | Q | L | G | D | I | A |
| Secondary structure | [Alpha Helix]               |     |     |     |     |     |   |   |   |   | [Alpha Helix] |   |   |   |   |   |   |   |   |   | [Alpha Helix] |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| SS confidence       | [Confidence Scale]          |     |     |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder            | [Disorder Prediction]       |     |     |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder confidence | [Disorder Confidence Scale] |     |     |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |


  

|                     | 190                         | 200 | 210 | 220 | 230 | 240 |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|-----------------------------|-----|-----|-----|-----|-----|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequence            | E                           | G   | A   | I   | N   | A   | K | Y | S | R | D             | K | E | S | E | A | D | D | F | S | F             | D | L | L | K | K | R | G | I | S | T | Q | G | L | V | G | S | F | E | T | L | A | S | L | D | G | G | R | T | Q | S | M | F | D | S | H | P | P | S | T |
| Secondary structure | [Alpha Helix]               |     |     |     |     |     |   |   |   |   | [Alpha Helix] |   |   |   |   |   |   |   |   |   | [Alpha Helix] |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| SS confidence       | [Confidence Scale]          |     |     |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder            | [Disorder Prediction]       |     |     |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder confidence | [Disorder Confidence Scale] |     |     |     |     |     |   |   |   |   |               |   |   |   |   |   |   |   |   |   |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |


  


|                     | 250                         |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequence            | E                           | R | A | Q | H | I | R | D | R | I | A | S | G | K |
| Secondary structure | [Alpha Helix]               |   |   |   |   |   |   |   |   |   |   |   |   |   |
| SS confidence       | [Confidence Scale]          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder            | [Disorder Prediction]       |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Disorder confidence | [Disorder Confidence Scale] |   |   |   |   |   |   |   |   |   |   |   |   |   |

Confidence Key

High(9)  Low (0)

? Disordered

 Alpha helix

 Beta strand