

logo

|                                             |                                                                                    |    |
|---------------------------------------------|------------------------------------------------------------------------------------|----|
| NTDB id 1306 DR RS10060 WP 027479822.1      | MALSI GDRRLGAILLDQGYLGDN DLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALR | 80 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                                                              | 0  |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                                                              | 0  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                                                              | 0  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                                                              | 0  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                              | 0  |
| NTDB id 322349 EBA19 RS08530 WP 011408072.1 | .....                                                                              | 0  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                              | 0  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                              | 0  |
| consensus                                   |                                                                                    |    |

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|---------------------------------------------|------------------------------------------------------------------------------------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1      | SIRPQTALNLQAFPPFALEGDRRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLEIVVPSGASDA | 160 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                                                              | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                                                              | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                                                              | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                                                              | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                              | 0   |
| NTDB id 322349 EBA19 RS08530 WP 011408072.1 | .....                                                                              | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                              | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                              | 0   |
| consensus                                   |                                                                                    |     |

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|---------------------------------------------|-----------------------------------------------------------------------------------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1      | GRTGGKLGGERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVLGSM | 240 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....                                                                             | 0   |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....                                                                             | 0   |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....                                                                             | 0   |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....                                                                             | 0   |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....                                                                             | 0   |
| NTDB id 322349 EBA19 RS08530 WP 011408072.1 | .....                                                                             | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....                                                                             | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....                                                                             | 0   |
| consensus                                   |                                                                                   |     |

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|                                             |                                                                                      |     |
|---------------------------------------------|--------------------------------------------------------------------------------------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1      | LRADALRLLAVPVDETEQGVTVLTS DPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPPQRGR LGEQLVQEGT LSRDQL | 320 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | .....MLTNLVA I LRQAELISATQ.                                                          | 19  |
| NTDB id 1293 VP RS12240 WP 005479695.1      | .....MHSNLSTILRQKGLLTFSQ.                                                            | 19  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | .....MLTNLSTVLRQAGILTFSSQ.                                                           | 19  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | .....MSVGLLRILVQNQVVTVEQ.                                                            | 19  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | .....MALATEEYRLQGTGQLLVLEKLLDKTK.                                                    | 27  |
| NTDB id 322349 EBA19 RS08530 WP 011408072.1 | .....MNSVSTTNLVGITGIARRLVQDGALEETA.                                                  | 29  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | .....MS..ALHTSPKFTGFFRRLVEEKHVSAAAT.                                                 | 27  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | .....MS..AFTTPPKFSGFIRRLVEEGYVNAQN.                                                  | 27  |
| consensus                                   | *** *!***** **                                                                       |     |

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|---------------------------------------------|-------------------------------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1      | REALQVQAREGKVKPLGEVITELGFASPD | 400 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | REALQVQAREGKVKPLGEVITELGFASPD | 69  |
| NTDB id 1293 VP RS12240 WP 005479695.1      | REALQVQAREGKVKPLGEVITELGFASPD | 69  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | REALQVQAREGKVKPLGEVITELGFASPD | 69  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | REALQVQAREGKVKPLGEVITELGFASPD | 68  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | REALQVQAREGKVKPLGEVITELGFASPD | 77  |
| NTDB id 322349 EBA19 RS08530 WP 011408072.1 | REALQVQAREGKVKPLGEVITELGFASPD | 79  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | REALQVQAREGKVKPLGEVITELGFASPD | 77  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | REALQVQAREGKVKPLGEVITELGFASPD | 77  |
| consensus                                   | REALQVQAREGKVKPLGEVITELGFASPD |     |

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|                                             |           |     |
|---------------------------------------------|-----------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1      | DPKVALMIP | 480 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | DPKVALMIP | 149 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | DPKVALMIP | 149 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | DPKVALMIP | 149 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | DPKVALMIP | 148 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | DPKVALMIP | 157 |
| NTDB id 322349 EBA19 RS08530 WP 011408072.1 | DPKVALMIP | 159 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | DPKVALMIP | 157 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | DPKVALMIP | 157 |
| consensus                                   | DPKVALMIP |     |

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|                                             |     |     |
|---------------------------------------------|-----|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1      | ELA | 547 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | ELA | 225 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | ELA | 225 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | ELA | 225 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | ELA | 215 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | ELA | 234 |
| NTDB id 322349 EBA19 RS08530 WP 011408072.1 | ELA | 238 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | ELA | 229 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | ELA | 229 |
| consensus                                   | ELA |     |

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|                                             |       |     |
|---------------------------------------------|-------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1      | FPKGA | 625 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1 | FPKGA | 304 |
| NTDB id 1293 VP RS12240 WP 005479695.1      | FPKGA | 304 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1   | FPKGA | 304 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1    | FPKGA | 295 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1   | FPKGA | 313 |
| NTDB id 322349 EBA19 RS08530 WP 011408072.1 | FPKGA | 317 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1    | FPKGA | 308 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1   | FPKGA | 308 |
| consensus                                   | FPKGA |     |

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NTDB id 1306 DR RS10060 WP 027479822.1
NTDB id 1168 A1552VC RS11070 WP 000957200.1
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consensus

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consensus

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NTDB id 1251 GC085 RS07725 WP 011946523.1
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NTDB id 1058 ABD1 RS01615 WP 001274986.1
NTDB id 1018 ACIAD RS01685 WP 004920473.1
consensus

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 non conserved  
 similar  
  $\geq 50\%$  conserved