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|                                              |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |   |    |
|----------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|----|
| NTDB id 1306 DR RS10060 WP 027479822.1       | MALSI  | CDRR  | LGAT  | LLDQ  | CYLG  | DNDL  | QRAL  | ERHSE | VGGRL | ADVL  | IDSC  | MG    | GEKRI | ARAI  | EEAL  | GIP   | LVNLL | AVQP  | DP    | PAAL  | R | 80 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | MALSIG | DRRL  | GAIL  | LDQGY | LGDND | LQRAL | ERHSE | VGGRL | ADVL  | IDSC  | MG    | GEKRI | ARAI  | EEAL  | GIP   | LVNLL | AVQP  | DP    | PAAL  | R     | 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 GCO85 RS07725 WP 011946523.1    | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0 |    |
| NTDB id 1102041 Q9284 RS07750 WP 011408072.1 | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0 |    |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0 |    |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0 |    |
| consensus                                    | .....  | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0 |    |

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|----------------------------------------------|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1       | SIRPQTALNLQAFPF | FALE  | GDR   | LR    | VALV  | DPLSS | SFSI  | ETLE  | DDSG  | FDIE  | PYQA  | LR    | EEV   | MWAI  | ATHY  | PELG  | LEIV  | VP    | SGAS  | DA    | 160 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | SIRPQTALNLQAFPF | FALE  | GDR   | LR    | VALV  | DPLSS | SFSI  | ETLE  | DDSG  | FDIE  | PYQA  | LR    | EEV   | MWAI  | ATHY  | PELG  | LEIV  | VP    | SGAS  | DA    | 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 GCO85 RS07725 WP 011946523.1    | .....           | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0   |
| NTDB id 1102041 Q9284 RS07750 WP 011408072.1 | .....           | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0   |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....           | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0   |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....           | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0   |
| consensus                                    | .....           | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0   |

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|----------------------------------------------|----------|-------|--------|----------|----------|-----------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1       | CRTGGKLG | ERLI  | THCY   | ITDAQLQV | ALDAQQQT | GEALGATLI | SQRA   | ITEDQLY | EVLA  | AEQEG | TTF   | LPNP  | SGFHP | PGEEV | L     | GSM   | 240 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | GRTGGKLG | ERLI  | THGYIT | DAQLQV   | ALDAQQQT | GEALGATLI | SQRAIT | EDQLY   | EVLA  | AEQEG | TTF   | LPNP  | SGFHP | PGEEV | L     | GSM   | 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 GCO85 RS07725 WP 011946523.1    | .....    | ..... | .....  | .....    | .....    | .....     | .....  | .....   | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0   |
| NTDB id 1102041 Q9284 RS07750 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       | LRADALRLLLAVPVDETEQGVTVLTSDPRKRPFIDALIGRPVQLMLTRPRDIERLIEQFYPQGRGLGEQLVQEGTLSRDQL | 320 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....MLTNLVAITLRQAE LISATQ.                                                       | 19  |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....MHSNLSTILRQKGLTFSQ.                                                          | 19  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....MLTNLSTVLRQAGILTFSQ.                                                         | 19  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....MSVGLLRILVQNQVVTVEQ.                                                         | 19  |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | .....MALATEEYRLQGTIGQLLVLEKLLDKTK.                                                | 27  |
| NTDB id 1102041 Q9284 RS07750 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       | REALQVQARECKVKPLGCEVITELGCFASPD       | 400 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | REALQVQAREGKVKPLGEVITELGFASPD         | 69  |
| NTDB id 1293 VP RS12240 WP 005479695.1       | EQAVVTQVSASGTSVPEALLSIFHAQELTEQLSHIFG | 69  |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | EESSLHQQVKASCISMPEALLSSGFFQSHLTHSSVFC | 69  |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | AEHYYNESQA.CKEVLPMLFSDGVI.SPKSLAALIA  | 68  |
| NTDB id 1251 GC085 RS07725 WP 011946523.1    | AIELHKLAAAEKISLLQYIVKNKILSAEQIALTAAQ  | 77  |
| NTDB id 1102041 Q9284 RS07750 WP 011408072.1 | ARTAMEQAAA.AKVPLPQWFAENRLVSASQLAAANA  | 79  |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | MQTALDAAKRAKQDVTAYLIEEVHLSPSLAEETIS   | 77  |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | MQQALEKAKKFQKD.VPPLYLDNFS.SPLTTABETIS | 77  |
| consensus                                    | * ** * * *                            |     |

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|----------------------------------------------|----------------------------------------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1       | DPKVALMIPATARRVYVVPVRLQGNLSLVAMKDPRN   | 480 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | ANLCQQQLGLRELITRYDALPIAKQCNLLLLAVSDPT  | 149 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | ASLCQQQLGLRELITRHNALPLHRTPTSTLLLAVADPT | 149 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | ASLCQTLGLRDLITRHNALPLNRTSSTLLIIVADPTNI | 149 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | HRVLMGVLTETEQMVEFHCVPVFRRGDKVFFAVSDPT  | 148 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1    | GTIPVNLVNEKLIKRRHAMVPLFSRGNTNLYLATDDP  | 157 |
| NTDB id 1102041 Q9284 RS07750 WP 011408072.1 | NQNAVKLIVSEELIQKYHVLPLFKRCNRLFVGVSNPT  | 159 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | SQIPKDLVDCKLILKHRTLPLIQRGQILYVATSNPSN  | 157 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | ALFLKDKIDKELIQKYRIMPLVHRGHVLYVATSNPTNI | 157 |
| consensus                                    | * * * * *                              |     |

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|----------------------------------------------|--------------------------------------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1       | ELA.....ERNKTQQSQEADLSVADESALVQVVD   | 547 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | GKELISQDELANLVK...VSDDELQSIEDLSQDDSP | 225 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | LKEINQEELASLVD...VGADEINIEDLSQDES    | 225 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | LKEINQDELAGLVD...IGDEIENIEDLSQDES    | 225 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | GEGQ.E.....EESHTLYIDNEEAEDGPVPRFI    | 215 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1    | YVEDSGDLEGLETSADD...EDQDIDTATSVTD    | 234 |
| NTDB id 1102041 Q9284 RS07750 WP 011408072.1 | GNDD.EEMGDLDVSTGDEDMGAGGDSGVDAKGDDT  | 238 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....EE.FDLVDN..LDGPTAQEDDEEAPQGD    | 229 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....EE.LDLDVD..VDPHTTDDDEDKCLKD     | 229 |
| consensus                                    | * * * * *                            |     |

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|----------------------------------------------|-------------------------------------|-----|
| NTDB id 1306 DR RS10060 WP 027479822.1       | FPKGAAQQIMARLIKIMGHLDIAERRVPQDGRVRF | 625 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | PASHLSRRRLAARIKILSKLDIAERRLPQDGRIKL | 304 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | PPNHLSRRLSARIKILSKLDIAERRLPQDGRIKL  | 304 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | PPSHLSRRLSARIKILSKLDIAERRLPQDGRIKL  | 304 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | PPIAVRGQLASRIKIVMSRLDISEKRIPQDGRMQL | 295 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1    | PPASLSSRITARIKIVMSNLDISERRIPQDGGFKM | 313 |
| NTDB id 1102041 Q9284 RS07750 WP 011408072.1 | APVKLSQRITARIKIVMSQLDIAEKRVPPQDGRIK | 317 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | PPLQLANRLASRIKIVMSQMDISEKRVPPQDGRIK | 308 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | PPLQLATRLASRIKIVMSQMDISEKRVPPQDGRIK | 308 |
| consensus                                    | * * * * *                           |     |

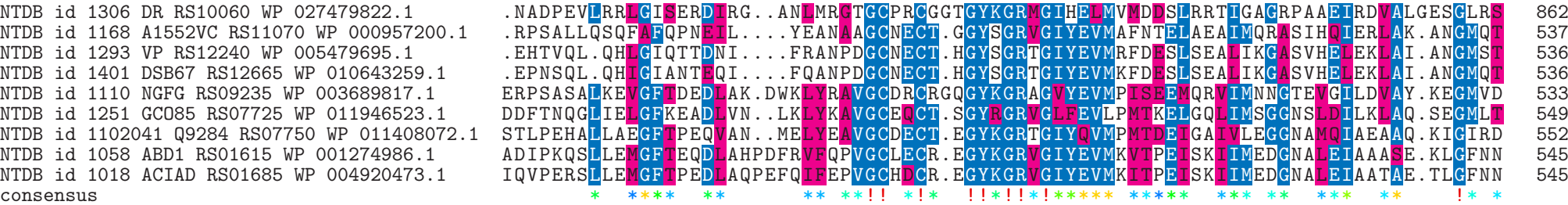
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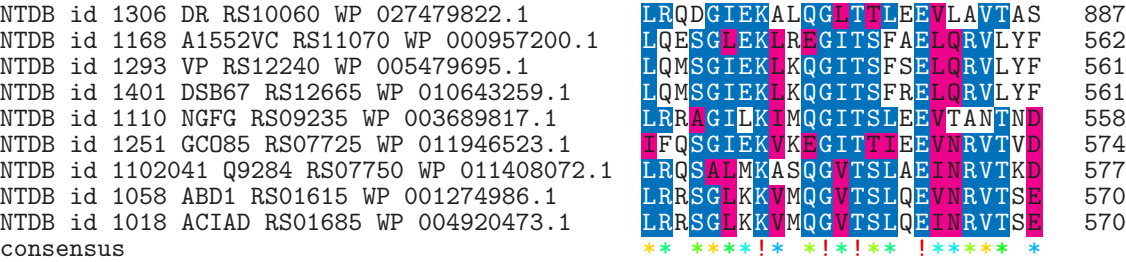
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 non conserved  
 similar  
  $\geq 50\%$  conserved