

logo

|               |                                 |  |    |
|---------------|---------------------------------|--|----|
|               |                                 | MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGS LAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVK  | 80 |
| NTDB id 1028  | TT RS08215 WP 011173991.1       |  |    |
| NTDB id 1306  | DR RS10060 WP 027479822.1       | .MALSIGDRRLGAILLDQGYLGDNLDLQRALERHSEVGGRLADVLDIDSGMVGEKRIARAIEEALGIPLVNLAVQPDPAAAL | 79 |
| NTDB id 1227  | CJJ81176 RS07050 WP 011812800.1 | .....  | 0  |
| NTDB id 1410  | SGL RS13950 WP 010873519.1      | .....  | 0  |
| NTDB id 1355  | HI 0298 AAC21962.1              | .....  | 0  |
| NTDB id 1366  | NTHI RS01950 WP 011271972.1     | .....  | 0  |
| NTDB id 1384  | A4U84 RS08525 WP 010787006.1    | .....  | 0  |
| NTDB id 1468  | ASU2 RS05090 WP 014991734.1     | .....  | 0  |
| NTDB id 55983 | L6440 RS21660 WP 004145935.1    | .....  | 0  |
| NTDB id 1436  | BW25113 RS00530 WP 001025145.1  | .....  | 0  |
| NTDB id 1168  | A1552VC RS11070 WP 000957200.1  | .....  | 0  |
| NTDB id 1401  | DSB67 RS12665 WP 010643259.1    | .....  | 0  |
| NTDB id 1293  | VP RS12240 WP 005479695.1       | .....  | 0  |
| NTDB id 1110  | NGFG RS09235 WP 003689817.1     | .....  | 0  |
| NTDB id 1251  | GCO85 RS07725 WP 011946523.1    | .....  | 0  |
| NTDB id 1018  | ACIAD RS01685 WP 004920473.1    | .....  | 0  |
| NTDB id 1058  | ABD1 RS01615 WP 001274986.1     | .....  | 0  |
| consensus     |                                 |  |    |

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|---------------|---------------------------------|--|-----|
|               |                                 | ALLPAEKAKELKAIPFALDEEAGVVRVAFNLPLDLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPP..P  | 158 |
| NTDB id 1028  | TT RS08215 WP 011173991.1       |  |     |
| NTDB id 1306  | DR RS10060 WP 027479822.1       | RSIRPQTALNLQAFPFALE..GDRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLIIVVPSGA | 157 |
| NTDB id 1227  | CJJ81176 RS07050 WP 011812800.1 | .....  | 0   |
| NTDB id 1410  | SGL RS13950 WP 010873519.1      | .....  | 0   |
| NTDB id 1355  | HI 0298 AAC21962.1              | .....  | 0   |
| NTDB id 1366  | NTHI RS01950 WP 011271972.1     | .....  | 0   |
| NTDB id 1384  | A4U84 RS08525 WP 010787006.1    | .....  | 0   |
| NTDB id 1468  | ASU2 RS05090 WP 014991734.1     | .....  | 0   |
| NTDB id 55983 | L6440 RS21660 WP 004145935.1    | .....  | 0   |
| NTDB id 1436  | BW25113 RS00530 WP 001025145.1  | .....  | 0   |
| NTDB id 1168  | A1552VC RS11070 WP 000957200.1  | .....  | 0   |
| NTDB id 1401  | DSB67 RS12665 WP 010643259.1    | .....  | 0   |
| NTDB id 1293  | VP RS12240 WP 005479695.1       | .....  | 0   |
| NTDB id 1110  | NGFG RS09235 WP 003689817.1     | .....  | 0   |
| NTDB id 1251  | GCO85 RS07725 WP 011946523.1    | .....  | 0   |
| NTDB id 1018  | ACIAD RS01685 WP 004920473.1    | .....  | 0   |
| NTDB id 1058  | ABD1 RS01615 WP 001274986.1     | .....  | 0   |
| consensus     |                                 |  |     |

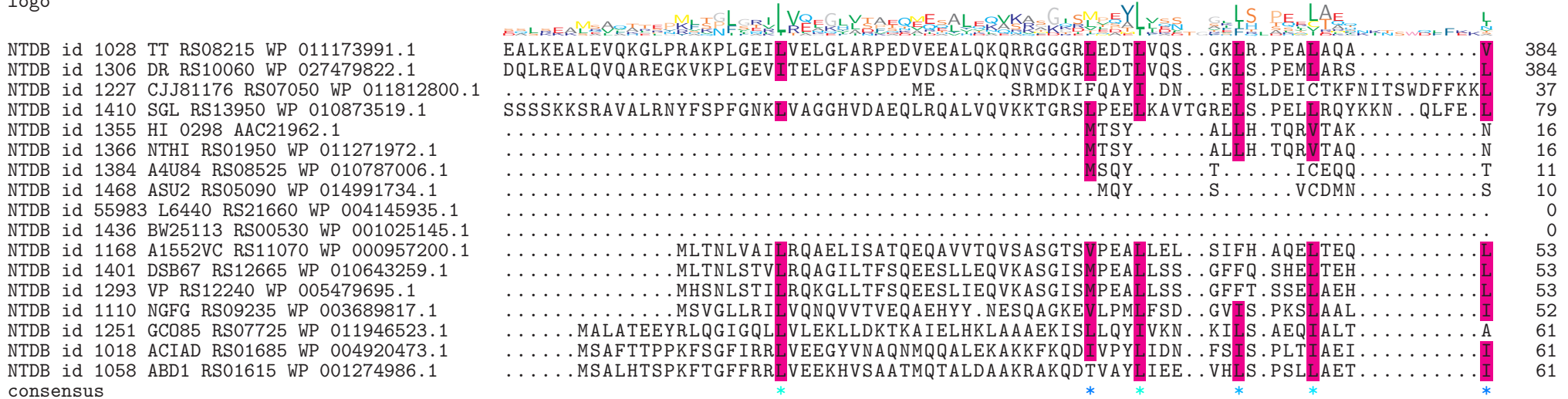
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| NTDB id 1028  | TT RS08215      | WP 011173991.1         | SsRQStsHKLCEeLrghGXIzBRxLpALBRQzrTGSxLGRtLYsBRxvEeXLYeXLAEQeGGrFLestEGvMPsEEeXx    | 237 |
| NTDB id 1306  | DR RS10060      | WP 027479822.1         | SGEGQKDKLKLGEllLQKQGWISREALEEALVEQEKTGDLLGRILV.RKGLPEEALYRALAEQKGLEFLESTEGIVPDPSAA | 237 |
| NTDB id 1227  | CJJ81176        | RS07050 WP 011812800.1 | .....  | 0   |
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| NTDB id 1355  | HI 0298         | AAC21962.1             | .....  | 0   |
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| NTDB id 1384  | A4U84 RS08525   | WP 010787006.1         | .....  | 0   |
| NTDB id 1468  | ASU2 RS05090    | WP 014991734.1         | .....  | 0   |
| NTDB id 55983 | L6440 RS21660   | WP 004145935.1         | .....  | 0   |
| NTDB id 1436  | BW25113 RS00530 | WP 001025145.1         | .....  | 0   |
| NTDB id 1168  | A1552VC RS11070 | WP 000957200.1         | .....  | 0   |
| NTDB id 1401  | DSB67 RS12665   | WP 010643259.1         | .....  | 0   |
| NTDB id 1293  | VP RS12240      | WP 005479695.1         | .....  | 0   |
| NTDB id 1110  | NGFG RS09235    | WP 003689817.1         | .....  | 0   |
| NTDB id 1251  | GCO85 RS07725   | WP 011946523.1         | .....  | 0   |
| NTDB id 1018  | ACIAD RS01685   | WP 004920473.1         | .....  | 0   |
| NTDB id 1058  | ABD1 RS01615    | WP 001274986.1         | .....  | 0   |
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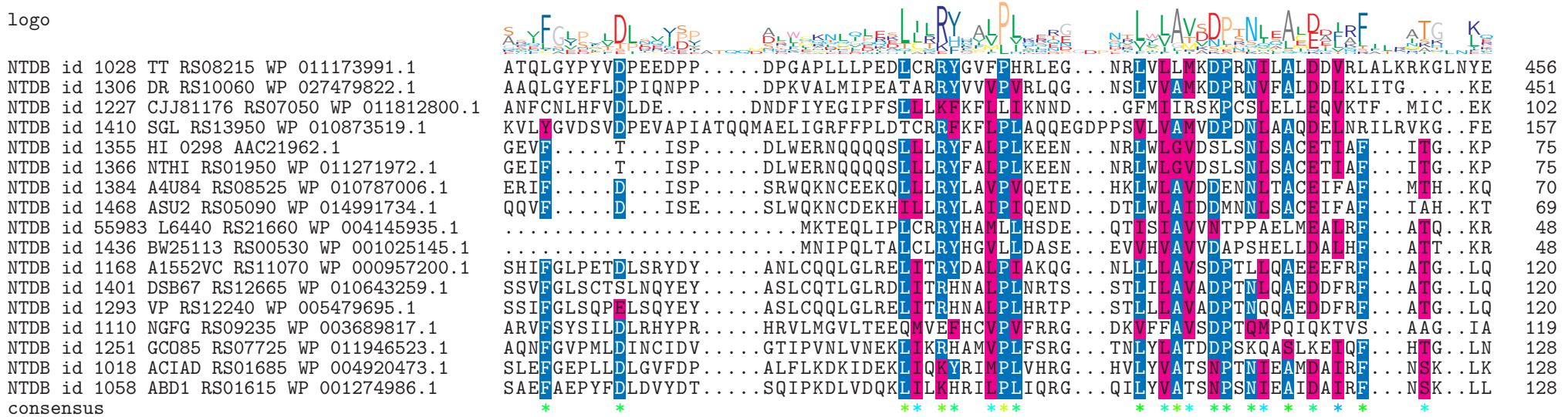
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|               |                 |                        |   |     |
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| NTDB id 1306  | DR RS10060      | WP 027479822.1         | GSMLRADALRLLAVPVDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRRLGEQLVQEGTLSR | 317 |
| NTDB id 1227  | CJJ81176        | RS07050 WP 011812800.1 | .....   | 0   |
| NTDB id 1410  | SGL RS13950     | WP 010873519.1         | .....   | 0   |
| NTDB id 1355  | HI 0298         | AAC21962.1             | .....   | 0   |
| NTDB id 1366  | NTHI RS01950    | WP 011271972.1         | .....   | 0   |
| NTDB id 1384  | A4U84 RS08525   | WP 010787006.1         | .....   | 0   |
| NTDB id 1468  | ASU2 RS05090    | WP 014991734.1         | .....   | 0   |
| NTDB id 55983 | L6440 RS21660   | WP 004145935.1         | .....   | 0   |
| NTDB id 1436  | BW25113 RS00530 | WP 001025145.1         | .....   | 0   |
| NTDB id 1168  | A1552VC RS11070 | WP 000957200.1         | .....   | 0   |
| NTDB id 1401  | DSB67 RS12665   | WP 010643259.1         | .....   | 0   |
| NTDB id 1293  | VP RS12240      | WP 005479695.1         | .....   | 0   |
| NTDB id 1110  | NGFG RS09235    | WP 003689817.1         | .....   | 0   |
| NTDB id 1251  | GCO85 RS07725   | WP 011946523.1         | .....   | 0   |
| NTDB id 1018  | ACIAD RS01685   | WP 004920473.1         | .....   | 0   |
| NTDB id 1058  | ABD1 RS01615    | WP 001274986.1         | .....   | 0   |
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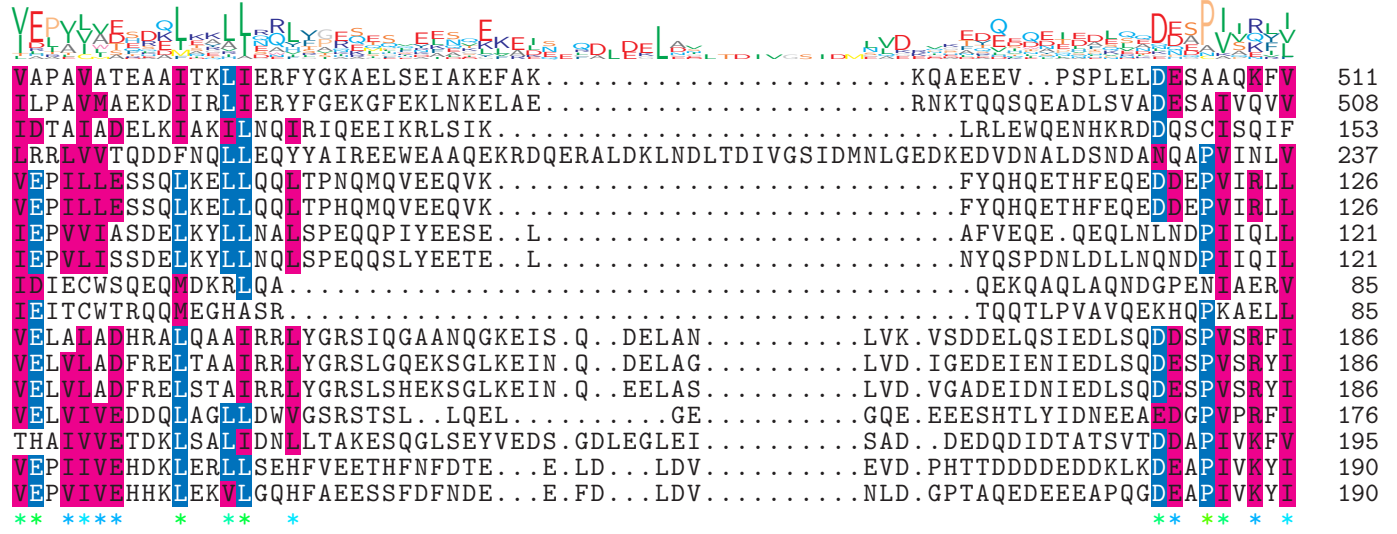


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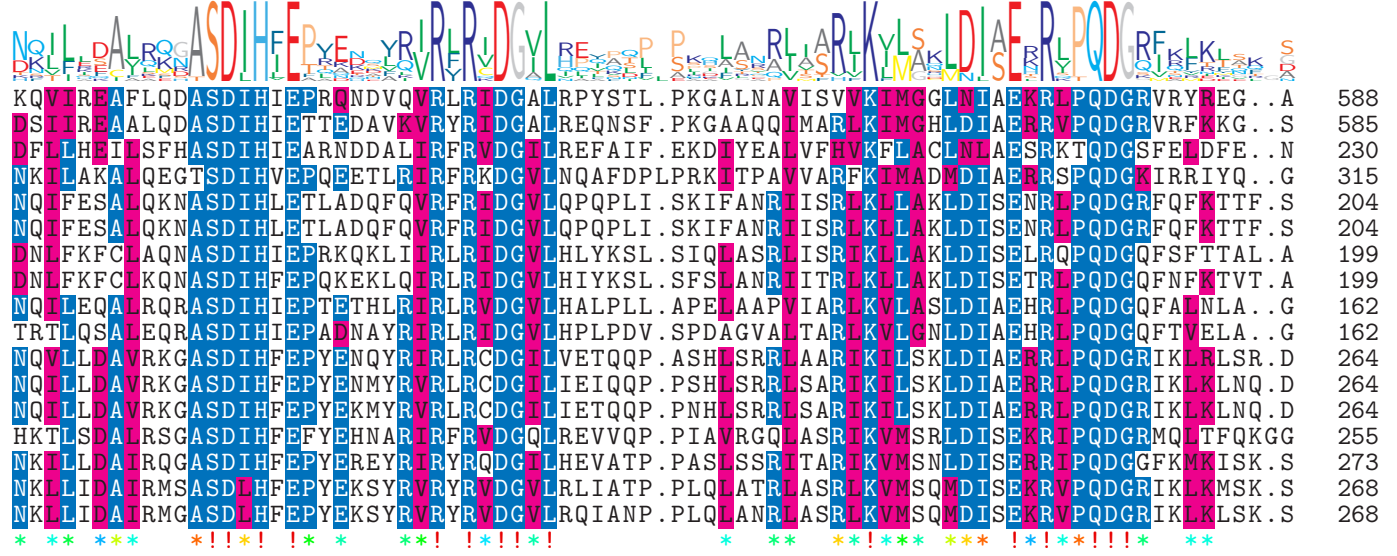
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 NTDB id 1058 ABD1 RS01615 WP 001274986.1



QATTRLIDEMGV<sup>1</sup>EPFNISAA<sup>2</sup>LIGVLSQRLVRRVCEHCKVEV.KPDPETLRRRLGLSE.....AEIQGA..RLYK.. 812  
 GAVTRLEEMGIENFNISAAMGVLAQRLVRRVCECKQPT.NADPEVLRRLGLISE.....RDIRGA..NLMR.. 809  
 STIDRLDMQAQSYLIAASLSLVIAQRLVRKLC<sup>3</sup>PWC<sup>4</sup>QKSKKKHYIE.....FEG.....EFFE... 443  
 GAIARLD<sup>5</sup>EMGV<sup>6</sup>EPF<sup>7</sup>MSGS<sup>8</sup>LLG<sup>9</sup>VLAQRLMRK<sup>10</sup>VCTECHIA<sup>11</sup>Y.HPSKEELSRFGLSASGDEVVTFYKANS<sup>12</sup>SPDEIHLARQK 554  
 SAISRLLQQLG<sup>13</sup>IQQYEIKNSLLLVIAQRLVRKLC<sup>14</sup>SKCGGN..... 403  
 SAISRLLQQLG<sup>15</sup>IQQHEIENSLLLVIAQRLVRKLC<sup>16</sup>CPKCGGN..... 403  
 SAVERLLQQLG<sup>17</sup>IQQEYEQNSLLLVIAQRLVRKLC<sup>18</sup>KKCRGV..... 398  
 SAIERLLQQLG<sup>19</sup>IKEYEIKNSLQLL<sup>20</sup>IAQRLLRKRC<sup>21</sup>PCGCGK..... 398  
 ETILTRLQCMGIARWMISSALSLVIAQRLVRKLC<sup>22</sup>PHCHRNAGSAAD.....LP.....HSWPRPLRWQ.. 381  
 ETLVRLQCMGVARWMISSALTLVIAQRLVRKLC<sup>23</sup>PHCHRRQQGEPH.....IP.....DNVWPSPLPHWQ.. 381  
 ETVIRLANMGVEPFNLASSLSL<sup>24</sup>IAQRLARRLCKHCKIAV.RPSALLQSQFAFQP.....NEIL....YEAN.. 486  
 ETVIRLSNMGVESFN<sup>25</sup>LASSLSL<sup>26</sup>IAQRLARKLCPYCRQPQ.EPNSQLQH.ICIAN.....TEQI....FQAN.. 485  
 ETVIRLSNMGVESFN<sup>27</sup>LASSLSL<sup>28</sup>IAQRLARKLCPYCRQPQ.EHTVQLQH.LGIQT.....TDNI....FRAN.. 485  
 ATLSRMLNMGVAPFN<sup>29</sup>IASSVSL<sup>30</sup>IAQRLRRRLCSSCKQE<sup>31</sup>VERPSASALKEVGF<sup>32</sup>TD.....EDLAK.DWKLYR.. 481  
 ETLNRLVMG<sup>33</sup>IPTFN<sup>34</sup>IASSVTL<sup>35</sup>IAQRLARKLNQCKAVR<sup>36</sup>DDFTN<sup>37</sup>QGLIELG<sup>38</sup>FKE.....ADLV..NLKLYK.. 498  
 ETLTRLRNMGVASFN<sup>39</sup>IATSVNLVIAQRLARRLCSQCKRPI.QVPERSLLEM<sup>40</sup>GF<sup>41</sup>TP.....EDLAQPEFQIFE.. 494  
 ETLTRLRNMGVPSFN<sup>42</sup>IATSVNLVIAQRLARRLCSQCKIPA.DIPKQSLLEM<sup>43</sup>GF<sup>44</sup>TE.....QDLAHPDFRVFQ.. 494

consensus

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NTDB id 1028 TT RS08215 WP 011173991.1  
 NTDB id 1306 DR RS10060 WP 027479822.1  
 NTDB id 1227 CJJ81176 RS07050 WP 011812800.1  
 NTDB id 1410 SGL RS13950 WP 010873519.1  
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 NTDB id 1018 ACIAD RS01685 WP 004920473.1  
 NTDB id 1058 ABD1 RS01615 WP 001274986.1



GMGCE..RCGGTGYKGRYA<sup>1</sup>THELLVVDDEIRHATVAGKSATEIK<sup>2</sup>EIAR.RKCMK<sup>3</sup>TLREDG<sup>4</sup>LYKALQCGIT<sup>5</sup>TLEEVLARTIE 889  
 GTGCP..RCGGTGYKGRMG<sup>6</sup>IHELMVMDDSLRRRTIGAGRPAAEIRDVALGESCLRS<sup>7</sup>LRQDCIEKALQCGIT<sup>8</sup>TLEEVLAVTAS 887  
 PKGCE..RCHHSCFFGRELI<sup>9</sup>ABCEI<sup>10</sup>NEDLACATRENQDKTILMELAK.KYCFQ<sup>11</sup>TFEQCLKKAKEGLT<sup>12</sup>SIDELLRV<sup>13</sup>R. 519  
 GNLCQ..KCSGS<sup>14</sup>GYKGRVGVYEV<sup>15</sup>MRNSERLAE<sup>16</sup>LINQGATTDRLKDCAV.EECM<sup>17</sup>ITLLAYS<sup>18</sup>LNLVQEGY<sup>19</sup>ITL<sup>20</sup>EEVERV<sup>21</sup>TFT 631  
 ..LANSCDCH.QGYRGRIGVYQFLHWQQN.....DY.....QTD<sup>22</sup>FKNLRASGLEK<sup>23</sup>VSQGT<sup>24</sup>TDEKEIERV<sup>25</sup>LGK 462  
 ..LINS<sup>26</sup>CDCH.QGYRGRIGVYQFLHWQQN.....GY.....QTD<sup>27</sup>FNLRBSGLEK<sup>28</sup>VSQGT<sup>29</sup>TDEKEIERV<sup>30</sup>LGK 462  
 ..GCD..ECY.QGYRGRIGVYQCLSR<sup>31</sup>TAK.....KFDKQTA.YLDFSS<sup>32</sup>LRBSAKQK<sup>33</sup>IEQQLT<sup>34</sup>NETEVD<sup>35</sup>RV<sup>36</sup>LGY 460  
 ..GCD..NCY.HGYKGR<sup>37</sup>TGYQLLAKQGK.....FFEKSTA.YLDYD<sup>38</sup>NLRASAEQK<sup>39</sup>LAANT<sup>40</sup>ITV<sup>41</sup>DEVKRV<sup>42</sup>LGD 460  
 AAGCE..HCY.HGYYGR<sup>43</sup>LALFEVLPVTPGIRQGT<sup>44</sup>VQGLNAIEIESLAR.AAG<sup>45</sup>MMILFESGCQATE<sup>46</sup>QGLT<sup>47</sup>SL<sup>48</sup>EEV<sup>49</sup>RV<sup>50</sup>LG 457  
 APGCV..HCY.HGFYGR<sup>51</sup>TALFEVLPITPVIRQLISANTDVESLE<sup>52</sup>THAR.QAC<sup>53</sup>MRTLFENCLAVE<sup>54</sup>QCGIT<sup>55</sup>TFEELIRV<sup>56</sup>LG 457  
 AAGCN..ECT.GGYSGRV<sup>57</sup>GYEVMAFNTE<sup>58</sup>LAEATMQRASIHQ<sup>59</sup>TERLAK.ANC<sup>60</sup>MQTLQESGLEK<sup>61</sup>LR<sup>62</sup>EGIT<sup>63</sup>SFAELQRV<sup>64</sup>LYF 562  
 PDGCN..ECT.HGYSGR<sup>65</sup>TGYEVMKFDES<sup>66</sup>LSEALIKGASVHELEK<sup>67</sup>LAI.ANC<sup>68</sup>MSTLQMSGLEK<sup>69</sup>LKQGIT<sup>70</sup>SFRELQRV<sup>71</sup>LYF 561  
 PDGCN..ECT.HGYSGR<sup>72</sup>TGYEVMRFDES<sup>73</sup>LSEALIKGASVHELEK<sup>74</sup>LAI.ANC<sup>75</sup>MSTLQMSGLEK<sup>76</sup>LKQGIT<sup>77</sup>SFRELQRV<sup>78</sup>LYF 561  
 AVGCD..RCRGQGYKGRAGVYEVMPISEEMQRVIM<sup>79</sup>NGTEVGLD<sup>80</sup>VAY.KECM<sup>81</sup>VDLRRA<sup>82</sup>GILKIMQGIT<sup>83</sup>SL<sup>84</sup>EEV<sup>85</sup>TANT<sup>86</sup>ND 558  
 AVGCE..QCT.SGYRGRV<sup>87</sup>CLFEVLPMTKELGQLIMSGGNSLDL<sup>88</sup>LKLAQ.SEC<sup>89</sup>MLTIFQSGLEK<sup>90</sup>VKEGIT<sup>91</sup>TLEE<sup>92</sup>VNR<sup>93</sup>TVD 574  
 PVGCH..DCR.EGYKGRV<sup>94</sup>GYEVMKITPEISKIIMEDGNALEIA<sup>95</sup>AATAE.TLGF<sup>96</sup>NNLRRSGLK<sup>97</sup>VMQGV<sup>98</sup>TS<sup>99</sup>SL<sup>100</sup>QEI<sup>101</sup>NRV<sup>102</sup>TSE 570  
 PVGCL..ECR.EGYKGRV<sup>103</sup>GYEVMKV<sup>104</sup>TPEISKIIMEDGNALEIAA<sup>105</sup>ASE.KLGF<sup>106</sup>NNLRRSGLK<sup>107</sup>VMQGV<sup>108</sup>TS<sup>109</sup>SL<sup>110</sup>QEI<sup>111</sup>NRV<sup>112</sup>TSE 570

consensus

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|--|---|-----|
| NTDB id 1028 TT RS08215 WP 011173991.1       | .....                                       | 889 |
| NTDB id 1306 DR RS10060 WP 027479822.1       | .....                                       | 887 |
| NTDB id 1227 CJJ81176 RS07050 WP 011812800.1 | .....                                       | 519 |
| NTDB id 1410 SGL RS13950 WP 010873519.1      | DTGLESEMRAKRKKSALTTCRTCAAELQQEWLDCPYCMTSRFS | 672 |
| NTDB id 1355 HI 0298 AAC21962.1              | NL.....                                     | 464 |
| NTDB id 1366 NTHI RS01950 WP 011271972.1     | NS.....                                     | 464 |
| NTDB id 1384 A4U84 RS08525 WP 010787006.1    | E.....                                      | 461 |
| NTDB id 1468 ASU2 RS05090 WP 014991734.1     | G.....                                      | 461 |
| NTDB id 55983 L6440 RS21660 WP 004145935.1   | PHGD.....                                   | 461 |
| NTDB id 1436 BW25113 RS00530 WP 001025145.1  | PHGE.....                                   | 461 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....                                       | 562 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....                                       | 561 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....                                       | 561 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....                                       | 558 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1    | .....                                       | 574 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....                                       | 570 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....                                       | 570 |
| consensus                                    |   |     |

DTGLESEMRAKRKKSALTTCRTCAAELQQEWLDCPYCMTSRFS

- non conserved
- similar
- ≥ 50% conserved