

|               |         |         |    |             |                                                                                                                                                                                                                                                             |    |
|---------------|---------|---------|----|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| NTDB id 32    | MW      | RS07995 | WP | 000472256.1 | .....MFKF..LKKTQAFTLIEMLVLLIISLLLILIIIPNIAKQTAHIQSTGCNAQVKMVNSQIEAYALKHNRNP                                                                                                                                                                                 | 68 |
| NTDB id 16    | SA      | RS07765 | WP | 000472256.1 | .....MFKF..LKKTQAFTLIEMLVLLIISLLLILIIIPNIAKQTAHIQSTGCNAQVKMVNSQIEAYALKHNRNP                                                                                                                                                                                 | 68 |
| NTDB id 588   | KW2     | RS10845 | WP | 051303741.1 | MSKALSLV <sup>1</sup> KIHGRKL <sup>2</sup> CQKKQKAFTLIEMLI <sup>3</sup> VLA <sup>4</sup> IIS <sup>5</sup> IL <sup>6</sup> ILLLFVPNL <sup>7</sup> IK <sup>8</sup> EKAQV <sup>9</sup> KKTGEAAVVKVVSQAQ <sup>10</sup> LYEL <sup>11</sup> DHD <sup>12</sup> NDK | 80 |
| NTDB id 460   | GPW51   | RS00790 | WP | 011921720.1 | .....MKKLVEMKVK <sup>1</sup> CTL <sup>2</sup> VEMLVVL <sup>3</sup> GIIS <sup>4</sup> LLLLFVPNL <sup>5</sup> SQ <sup>6</sup> QKDA <sup>7</sup> IK <sup>8</sup> KGDAAVVKVVSQMELYE <sup>9</sup> LEHD <sup>10</sup> .EE                                         | 68 |
| NTDB id 272   | KZH43   | RS09255 | WP | 000738626.1 | .....M <sup>1</sup> KK <sup>2</sup> MM <sup>3</sup> TFL <sup>4</sup> KK <sup>5</sup> AKVKAFTLVEMLVLLIISVLF <sup>6</sup> LLFVPNLTKQKEAV <sup>7</sup> NDKG <sup>8</sup> KA <sup>9</sup> AVVKVVSQAELY <sup>10</sup> SL <sup>11</sup> EKN <sup>12</sup> .ED     | 72 |
| NTDB id 231   | SPD     | RS09885 | WP | 000738626.1 | .....M <sup>1</sup> KK <sup>2</sup> MM <sup>3</sup> TFL <sup>4</sup> KK <sup>5</sup> AKVKAFTLVEMLVLLIISVLF <sup>6</sup> LLFVPNLTKQKEAV <sup>7</sup> NDKG <sup>8</sup> KA <sup>9</sup> AVVKVVSQAELY <sup>10</sup> SL <sup>11</sup> EKN <sup>12</sup> .ED     | 72 |
| NTDB id 197   | SPR     | RS09420 | WP | 000738626.1 | .....M <sup>1</sup> KK <sup>2</sup> MM <sup>3</sup> TFL <sup>4</sup> KK <sup>5</sup> AKVKAFTLVEMLVLLIISVLF <sup>6</sup> LLFVPNLTKQKEAV <sup>7</sup> NDKG <sup>8</sup> KA <sup>9</sup> AVVKVVSQAELY <sup>10</sup> SL <sup>11</sup> EKN <sup>12</sup> .ED     | 72 |
| NTDB id 162   | SP      | RS10370 | WP | 000738627.1 | .....M <sup>1</sup> KK <sup>2</sup> MM <sup>3</sup> TFL <sup>4</sup> KK <sup>5</sup> AKVKAFTLVEMLVLLIISVLF <sup>6</sup> LLFVPNLTKQKEAV <sup>7</sup> NDKG <sup>8</sup> KA <sup>9</sup> AVVKVVSQAELY <sup>10</sup> SL <sup>11</sup> EKN <sup>12</sup> .ED     | 72 |
| NTDB id 530   | SMSK321 | RS09230 | WP | 000738643.1 | .....M <sup>1</sup> KK <sup>2</sup> MM <sup>3</sup> TFL <sup>4</sup> KK <sup>5</sup> AKVKAFTLVEMLVLLIISVLLLFVPNLTKQKEAV <sup>7</sup> NDKG <sup>8</sup> KA <sup>9</sup> AVVKVVSQAELY <sup>10</sup> SL <sup>11</sup> DKN <sup>12</sup> .ED                    | 72 |
| NTDB id 99079 | SP4011  | RS01265 | WP | 338619538.1 | .....M <sup>1</sup> KK <sup>2</sup> MIT <sup>3</sup> YL <sup>4</sup> KTAKVKAFTLVEMLVLLIISVLLLFVPNLTKQKEAV <sup>7</sup> NDKG <sup>8</sup> KA <sup>9</sup> AVVKVVSQAELY <sup>10</sup> SL <sup>11</sup> EKN <sup>12</sup> .ED                                  | 72 |
| NTDB id 502   | SM12261 | RS00955 | WP | 000738641.1 | .....M <sup>1</sup> KK <sup>2</sup> MM <sup>3</sup> TFL <sup>4</sup> KK <sup>5</sup> AKVKAFTLVEMLVLLIISVLLLFVPNLTKQKEAV <sup>7</sup> NDKG <sup>8</sup> KA <sup>9</sup> AVVKVVSQAELY <sup>10</sup> SL <sup>11</sup> DKN <sup>12</sup> .ED                    | 72 |
| NTDB id 431   | SGO     | RS09410 | WP | 012130940.1 | .....M <sup>1</sup> NK <sup>2</sup> L <sup>3</sup> KK <sup>4</sup> LR <sup>5</sup> VKAFTLVEMLVLLIISVLM <sup>6</sup> LLFVPNLTKQKEAV <sup>7</sup> SDTGN <sup>8</sup> AAVVKVVSQAELYELKNTGDQ                                                                    | 69 |
| NTDB id 396   | FSA28   | RS09395 | WP | 002263437.1 | .....M <sup>1</sup> KK <sup>2</sup> IK <sup>3</sup> RVSV <sup>4</sup> RAFTLIEMLVLLIIS <sup>5</sup> IL <sup>6</sup> LLLFVPNLTKQKD <sup>7</sup> KVKD <sup>8</sup> TGGS <sup>9</sup> AVVKVVSQAELYELNKT <sup>10</sup> .DS                                       | 68 |
| NTDB id 387   | SMU     | RS09025 | WP | 002263437.1 | .....M <sup>1</sup> KK <sup>2</sup> IK <sup>3</sup> RVSV <sup>4</sup> RAFTLIEMLVLLIIS <sup>5</sup> IL <sup>6</sup> LLLFVPNLTKQKD <sup>7</sup> KVKD <sup>8</sup> TGGS <sup>9</sup> AVVKVVSQAELYELNKT <sup>10</sup> .DS                                       | 68 |
| consensus     |         |         |    |             | *** ** ***** ** ** ** **                                                                                                                                                                                                                                    | 68 |

|           |    |       |         |         |    |             |                                        |     |
|-----------|----|-------|---------|---------|----|-------------|----------------------------------------|-----|
| NTDB      | id | 32    | MW      | RS07995 | WP | 000472256.1 | SSIEDLIADGFIKEAQKTKSGETITISN.GEAVAN    | 103 |
| NTDB      | id | 16    | SA      | RS07765 | WP | 000472256.1 | SSIEDLIADGFIKEAQKTKSGETITISN.GEAVAN    | 103 |
| NTDB      | id | 588   | KW2     | RS10845 | WP | 051303741.1 | PNLSELLSACMITQKQVTAYDDYDQNKNEQRNFDD    | 116 |
| NTDB      | id | 460   | GPW51   | RS00790 | WP | 011921720.1 | ATVADLQAKGYITEKQAKQYATAKK.....         | 93  |
| NTDB      | id | 272   | KZH43   | RS09255 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND   | 108 |
| NTDB      | id | 231   | SPD     | RS09885 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND   | 108 |
| NTDB      | id | 197   | SPR     | RS09420 | WP | 000738626.1 | ASLRKLQADGRITEEQAKAYKEYHDKNGGANRKVND   | 108 |
| NTDB      | id | 162   | SP      | RS10370 | WP | 000738627.1 | ASLRKLQADGRITEEQAKAYKEYNDKNGGANRKVND   | 108 |
| NTDB      | id | 530   | SMK321  | RS09230 | WP | 000738643.1 | ASLSKLQADGRITEEQAKAYNEYAKNGGANRKVND    | 108 |
| NTDB      | id | 99079 | SP4011  | RS01265 | WP | 338619538.1 | ASLSKLQANDRITEEQAKAYKEYHAKQNKQTIVAD.   | 107 |
| NTDB      | id | 502   | SM12261 | RS00955 | WP | 000738641.1 | ASLSKLQADGRITEEQAKAYKEYHAKQNTSQTVAD.   | 107 |
| NTDB      | id | 431   | SGO     | RS09410 | WP | 012130940.1 | ATLSKLVAAGNISQKQADSYKAYYGGNNSETQAVAN   | 105 |
| NTDB      | id | 396   | FSA28   | RS09395 | WP | 002263437.1 | ATLSKLVASGDITQEQANSYKDYAKHPSKTRHVAN    | 104 |
| NTDB      | id | 387   | SMU     | RS09025 | WP | 002263437.1 | ATLSKLVASGDITQEQANSYKDYAKHPSKTRHVAN    | 104 |
| consensus |    |       |         |         |    |             | *** * ! **** * ! **** ! ***** ** * * * |     |

- X non conserved
- X similar
- X ≥ 50% conserved