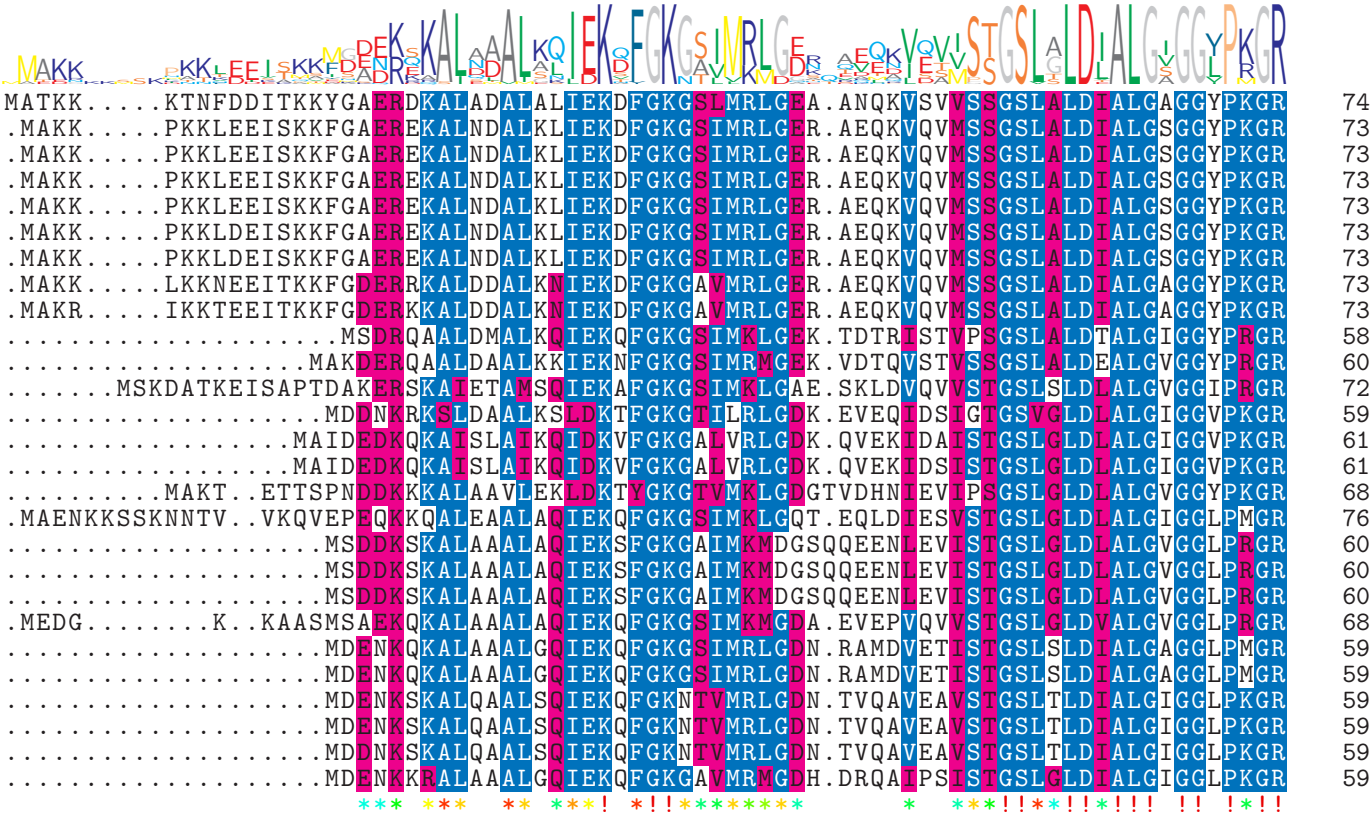


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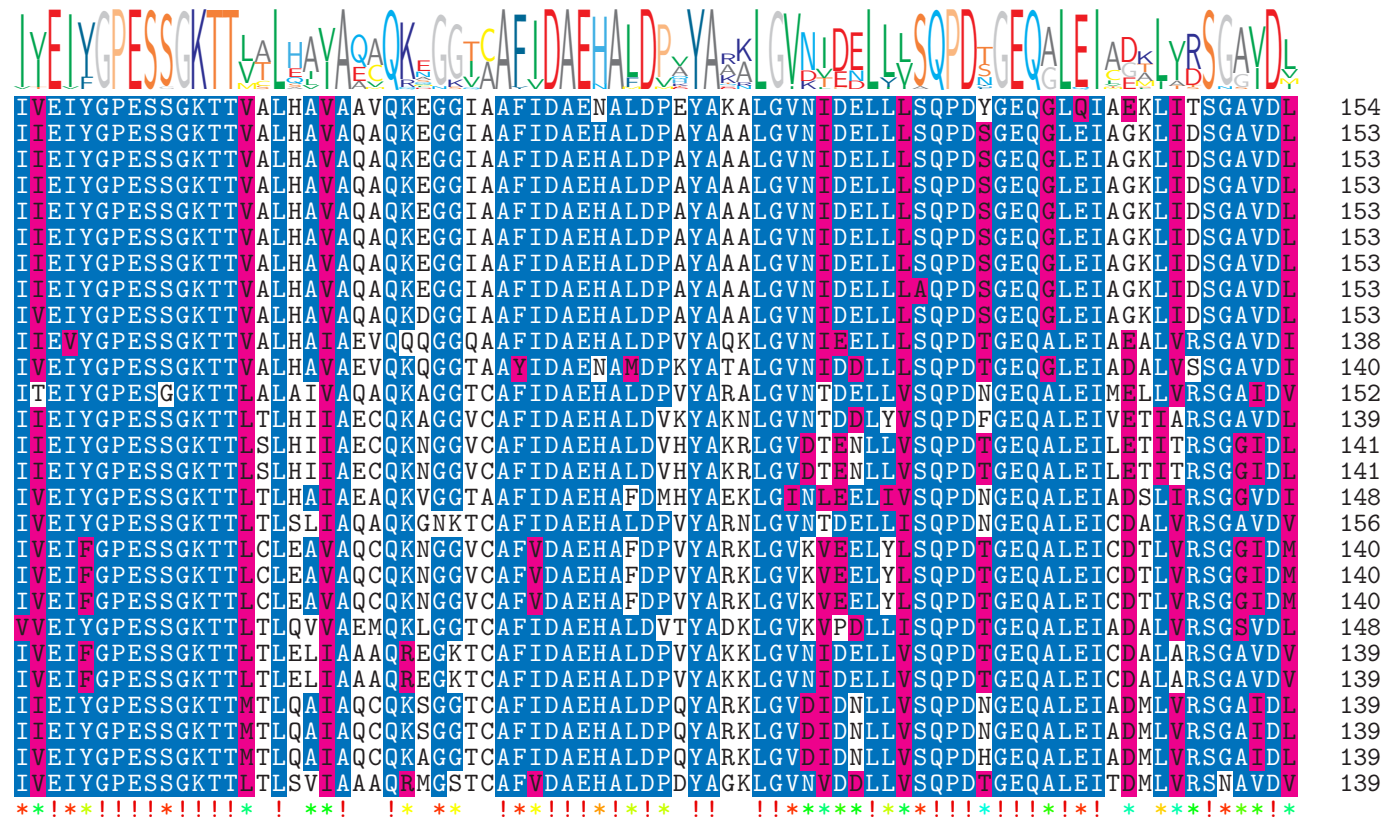
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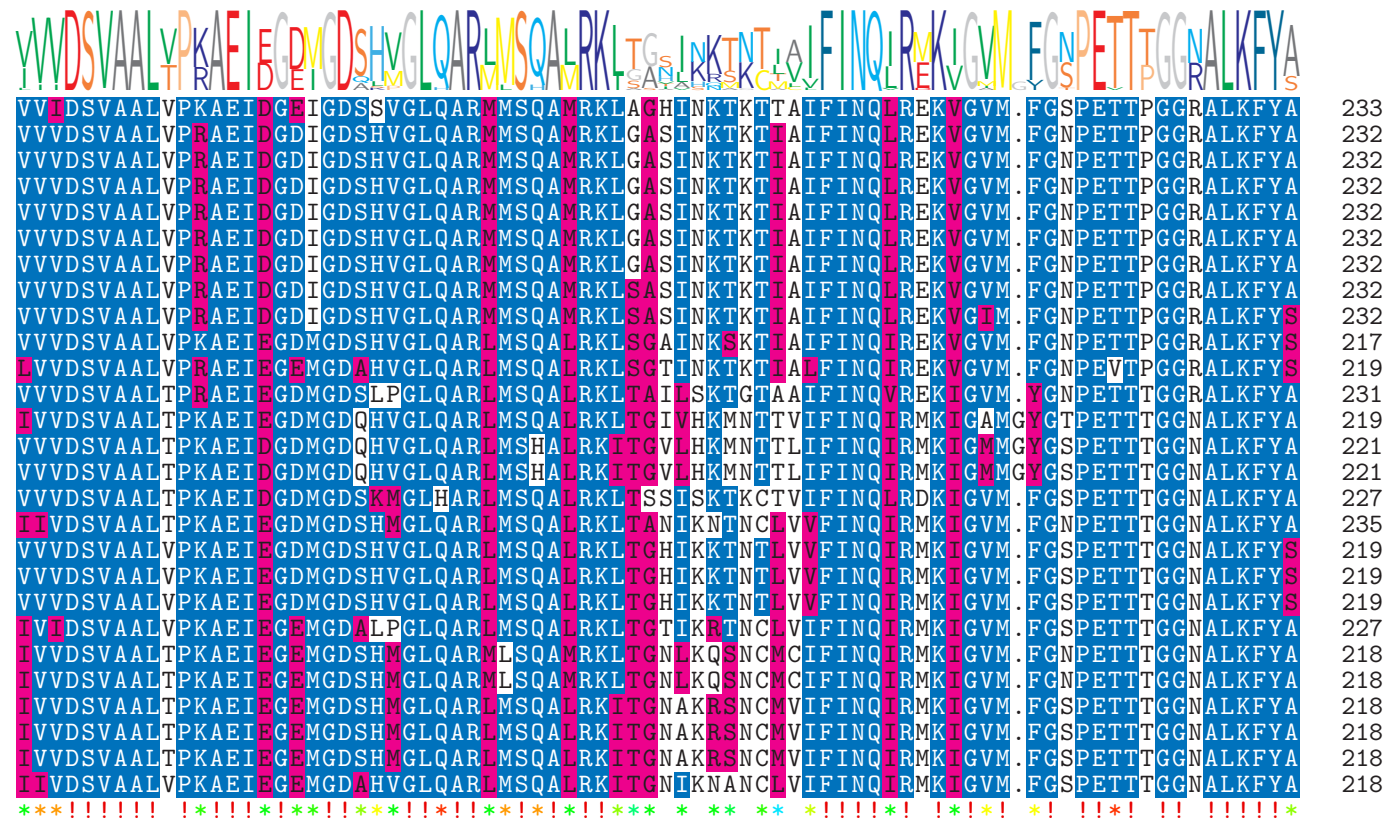
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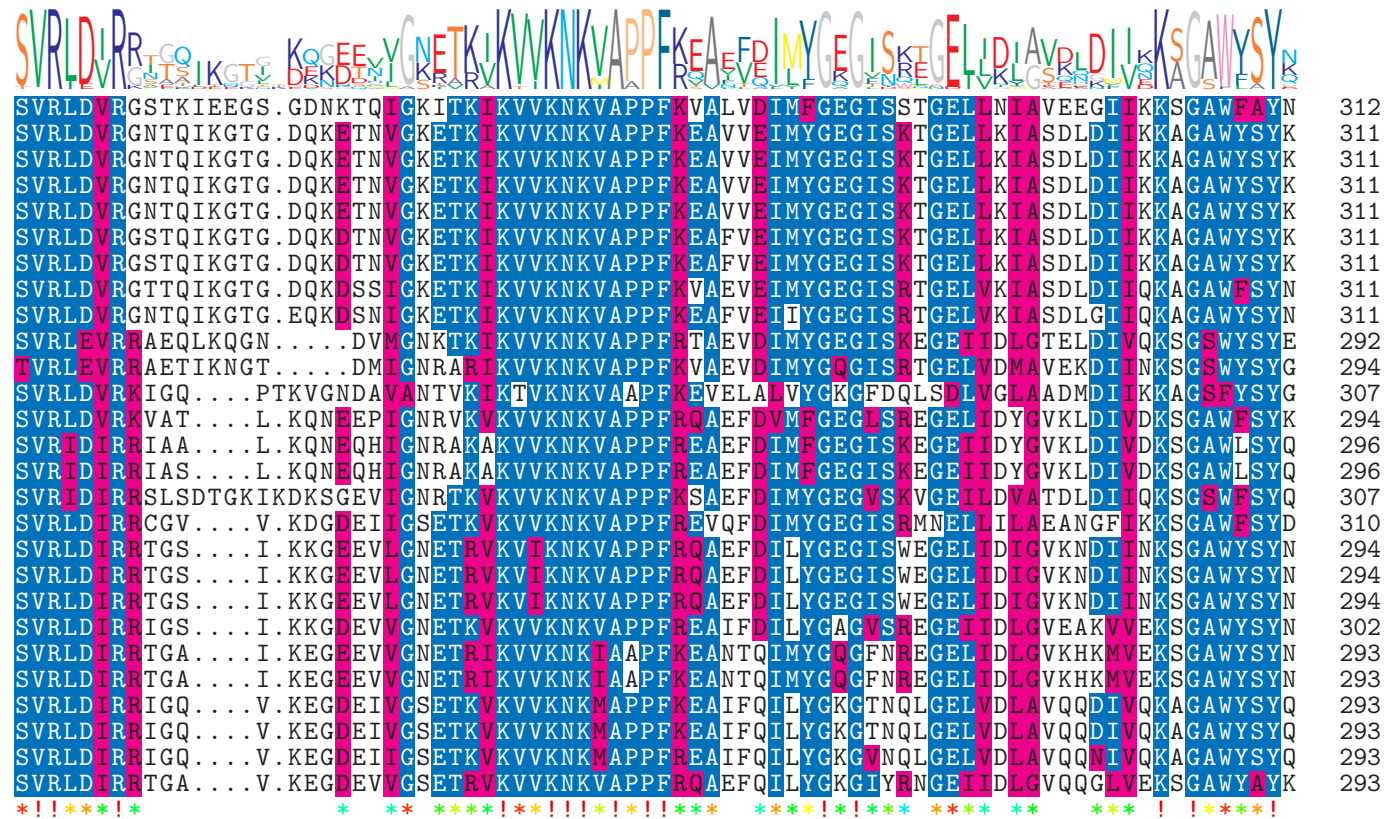
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consensus

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| Sequence                                                                                                                                                                                                                                                                                                                                                                         | Score |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| DEKIGQGA <sup>1</sup> E <sup>2</sup> KA <sup>3</sup> KN <sup>4</sup> YL <sup>5</sup> KE <sup>6</sup> HQ <sup>7</sup> DV <sup>8</sup> FD <sup>9</sup> EID <sup>10</sup> HK <sup>11</sup> VRAAH <sup>12</sup> GL <sup>13</sup> LDSEVAETEEE <sup>14</sup> .TTASKTK <sup>15</sup> ..AKAKKEEKAVETEEIELELED <sup>16</sup> ..                                                           | 387   |
| DEKIGQGS <sup>1</sup> EN <sup>2</sup> AK <sup>3</sup> KYLA <sup>4</sup> EH <sup>5</sup> PE <sup>6</sup> IF <sup>7</sup> DEID <sup>8</sup> KQ <sup>9</sup> VR <sup>10</sup> SKF <sup>11</sup> GL <sup>12</sup> IDGEEVSEQDTE <sup>13</sup> .NKKD <sup>14</sup> E <sup>15</sup> .....PKKEEA <sup>16</sup> ..VNEEVPLDLGDEL <sup>17</sup>                                             | 382   |
| DEKIGQGS <sup>1</sup> EN <sup>2</sup> AK <sup>3</sup> KYLA <sup>4</sup> EH <sup>5</sup> PE <sup>6</sup> IF <sup>7</sup> DEID <sup>8</sup> KQ <sup>9</sup> VR <sup>10</sup> SKF <sup>11</sup> GL <sup>12</sup> IDGEEVSEQDTE <sup>13</sup> .NKKD <sup>14</sup> E <sup>15</sup> .....PKKEEA <sup>16</sup> ..VNEEVPLDLGDEL <sup>17</sup>                                             | 382   |
| DEKIGQGS <sup>1</sup> EN <sup>2</sup> AK <sup>3</sup> KYLA <sup>4</sup> EH <sup>5</sup> PE <sup>6</sup> IF <sup>7</sup> DEID <sup>8</sup> KQ <sup>9</sup> VR <sup>10</sup> SKF <sup>11</sup> GL <sup>12</sup> IDGEEVSEQDTE <sup>13</sup> .NKKD <sup>14</sup> E <sup>15</sup> .....PKKEEA <sup>16</sup> ..VNEEVPLDLGDEL <sup>17</sup>                                             | 382   |
| DEKIGQGS <sup>1</sup> EN <sup>2</sup> AK <sup>3</sup> KYLA <sup>4</sup> DN <sup>5</sup> PE <sup>6</sup> VFA <sup>7</sup> EID <sup>8</sup> HQ <sup>9</sup> VR <sup>10</sup> VQF <sup>11</sup> GL <sup>12</sup> IDGEEAAE <sup>13</sup> .....SKKD <sup>14</sup> E <sup>15</sup> .....VAQVDS <sup>16</sup> ..VNEEVTLDLGDEL <sup>17</sup>                                             | 378   |
| DEKIGQGS <sup>1</sup> EN <sup>2</sup> AK <sup>3</sup> KYLA <sup>4</sup> DN <sup>5</sup> PE <sup>6</sup> IF <sup>7</sup> DEID <sup>8</sup> HQ <sup>9</sup> VR <sup>10</sup> VQF <sup>11</sup> GL <sup>12</sup> IDGEEIAE <sup>13</sup> .....SKKD <sup>14</sup> E <sup>15</sup> .....AAQVDS <sup>16</sup> ..VNEEVTLDLGDEL <sup>17</sup>                                             | 378   |
| GEKIGQGS <sup>1</sup> EN <sup>2</sup> AK <sup>3</sup> RYLA <sup>4</sup> DHP <sup>5</sup> QL <sup>6</sup> FD <sup>7</sup> EID <sup>8</sup> RK <sup>9</sup> VR <sup>10</sup> VK <sup>11</sup> FL <sup>12</sup> LEESEESAMAV <sup>13</sup> .ASE <sup>14</sup> .....E <sup>15</sup> .....TDDLALDLNGI <sup>16</sup>                                                                    | 374   |
| GEKIGQGS <sup>1</sup> EN <sup>2</sup> AK <sup>3</sup> KFLA <sup>4</sup> DN <sup>5</sup> PE <sup>6</sup> IF <sup>7</sup> DD <sup>8</sup> ID <sup>9</sup> HK <sup>10</sup> VR <sup>11</sup> VQY <sup>12</sup> GL <sup>13</sup> IEEDNTEEKQSS <sup>14</sup> .KEK <sup>15</sup> .....ETDEK <sup>16</sup> ..ADKNLVLELDDTI <sup>17</sup>                                                | 379   |
| EE <sup>1</sup> RL <sup>2</sup> GG <sup>3</sup> RE <sup>4</sup> NA <sup>5</sup> KQ <sup>6</sup> FL <sup>7</sup> KN <sup>8</sup> KD <sup>9</sup> IM <sup>10</sup> LI <sup>11</sup> QE <sup>12</sup> QI <sup>13</sup> RE <sup>14</sup> HY <sup>15</sup> GL <sup>16</sup> DNNGVVQQQAEE <sup>17</sup> .TQEEL <sup>18</sup> .E <sup>19</sup> .FE <sup>20</sup> .E <sup>21</sup> ..... | 348   |
| SERIGGG <sup>1</sup> RE <sup>2</sup> NA <sup>3</sup> KNYLA <sup>4</sup> DH <sup>5</sup> ED <sup>6</sup> VE <sup>7</sup> DE <sup>8</sup> VR <sup>9</sup> LK <sup>10</sup> VRAAY <sup>11</sup> GIS <sup>12</sup> DVPEEDLPTTE <sup>13</sup> .DE <sup>14</sup> .QI <sup>15</sup> .N <sup>16</sup> ..ILPDDST <sup>17</sup> .....EE <sup>18</sup> .....                                | 355   |
| DERIGGG <sup>1</sup> KE <sup>2</sup> KTI <sup>3</sup> AY <sup>4</sup> IA <sup>5</sup> ER <sup>6</sup> PE <sup>7</sup> ME <sup>8</sup> QE <sup>9</sup> IR <sup>10</sup> DRV <sup>11</sup> MAA <sup>12</sup> IRAGNAGEAPALAPAPAAPEAAEA <sup>13</sup> .....                                                                                                                          | 363   |
| DKKLGGG <sup>1</sup> RE <sup>2</sup> NS <sup>3</sup> KA <sup>4</sup> FL <sup>5</sup> KN <sup>6</sup> PEIA <sup>7</sup> DEIT <sup>8</sup> KA <sup>9</sup> IQNSM <sup>10</sup> GI <sup>11</sup> EGMISGS <sup>12</sup> ..EDDEGE <sup>13</sup> .E <sup>14</sup> .....                                                                                                                | 343   |
| DKKLGGG <sup>1</sup> RE <sup>2</sup> NA <sup>3</sup> KALL <sup>4</sup> KED <sup>5</sup> KALA <sup>6</sup> DEIT <sup>7</sup> LK <sup>8</sup> IKES <sup>9</sup> IG <sup>10</sup> SNEEIMPL <sup>11</sup> ..PDEPLE <sup>12</sup> ..EME <sup>13</sup> .....                                                                                                                           | 347   |
| DKKLGGG <sup>1</sup> RE <sup>2</sup> NA <sup>3</sup> KALL <sup>4</sup> KED <sup>5</sup> KALA <sup>6</sup> DEIT <sup>7</sup> LK <sup>8</sup> IKES <sup>9</sup> IG <sup>10</sup> SNEEIMPL <sup>11</sup> ..PDEPLE <sup>12</sup> ..EME <sup>13</sup> .....                                                                                                                           | 347   |
| DTKLGGGR <sup>1</sup> DT <sup>2</sup> V <sup>3</sup> KEL <sup>4</sup> IK <sup>5</sup> DN <sup>6</sup> PELA <sup>7</sup> E <sup>8</sup> E <sup>9</sup> LEAK <sup>10</sup> IREKLQAK <sup>11</sup> .....                                                                                                                                                                            | 343   |
| GTKIGQG <sup>1</sup> KNN <sup>2</sup> AVK <sup>3</sup> WL <sup>4</sup> KN <sup>5</sup> PEIA <sup>6</sup> DK <sup>7</sup> LE <sup>8</sup> QE <sup>9</sup> IR <sup>10</sup> NTL <sup>11</sup> ASN <sup>12</sup> PNSVLK <sup>13</sup> ..ATASDSND <sup>14</sup> ESDVEEFSE <sup>15</sup> .....EEL <sup>16</sup> .....                                                                 | 372   |
| GAKIGGQ <sup>1</sup> KDN <sup>2</sup> VR <sup>3</sup> VL <sup>4</sup> KN <sup>5</sup> PEIS <sup>6</sup> DEID <sup>7</sup> AK <sup>8</sup> IRALN <sup>9</sup> GVEMHITEG <sup>10</sup> ..TQDET <sup>11</sup> .....GERPE <sup>12</sup> .....E <sup>13</sup> .....                                                                                                                   | 348   |
| GAKIGGQ <sup>1</sup> KDN <sup>2</sup> VR <sup>3</sup> VL <sup>4</sup> KN <sup>5</sup> PEIS <sup>6</sup> DEID <sup>7</sup> AK <sup>8</sup> IRALN <sup>9</sup> GVEMHITEG <sup>10</sup> ..TQDET <sup>11</sup> .....GERPE <sup>12</sup> .....E <sup>13</sup> .....                                                                                                                   | 348   |
| GAKIGGQ <sup>1</sup> KDN <sup>2</sup> VR <sup>3</sup> VL <sup>4</sup> KN <sup>5</sup> PEIS <sup>6</sup> DEID <sup>7</sup> AK <sup>8</sup> IRALN <sup>9</sup> GVEMHITEG <sup>10</sup> ..TQDET <sup>11</sup> .....GERPE <sup>12</sup> .....E <sup>13</sup> .....                                                                                                                   | 348   |
| GERIGGG <sup>1</sup> RD <sup>2</sup> NC <sup>3</sup> REFL <sup>4</sup> RENA <sup>5</sup> E <sup>6</sup> LAR <sup>7</sup> EI <sup>8</sup> EN <sup>9</sup> KV <sup>10</sup> REHL <sup>11</sup> GV <sup>12</sup> TPMGAV <sup>13</sup> ..TLAEEVEED <sup>14</sup> .....                                                                                                               | 352   |
| GDKIGQG <sup>1</sup> KAN <sup>2</sup> ACKYL <sup>3</sup> KN <sup>4</sup> PEIA <sup>5</sup> AKT <sup>6</sup> L <sup>7</sup> DKKL <sup>8</sup> REMLLN <sup>9</sup> PENMQLI <sup>10</sup> ..AETSSAAD <sup>11</sup> VEFGAVPE <sup>12</sup> .....EF <sup>13</sup> .....                                                                                                               | 354   |
| GDKIGGQ <sup>1</sup> KAN <sup>2</sup> ACKYL <sup>3</sup> KN <sup>4</sup> PEIA <sup>5</sup> AKT <sup>6</sup> L <sup>7</sup> DKKL <sup>8</sup> REMLLN <sup>9</sup> PENMQLI <sup>10</sup> ..AETSSAAD <sup>11</sup> VEFGAVPE <sup>12</sup> .....EF <sup>13</sup> .....                                                                                                               | 354   |
| GNKIGQG <sup>1</sup> KNN <sup>2</sup> VIRY <sup>3</sup> FEENT <sup>4</sup> QIA <sup>5</sup> E <sup>6</sup> EI <sup>7</sup> ERN <sup>8</sup> IREQLLT <sup>9</sup> TGTNGAV <sup>10</sup> ..Q <sup>11</sup> .I <sup>12</sup> .EDEE <sup>13</sup> EPD <sup>14</sup> ..LLE <sup>15</sup> .....S <sup>16</sup> .....                                                                   | 349   |
| GNKIGQG <sup>1</sup> KNN <sup>2</sup> VIRY <sup>3</sup> FEENN <sup>4</sup> QIA <sup>5</sup> E <sup>6</sup> EI <sup>7</sup> ERN <sup>8</sup> IREQLLT <sup>9</sup> TGTNGAV <sup>10</sup> ..Q <sup>11</sup> .I <sup>12</sup> .EDEE <sup>13</sup> EPD <sup>14</sup> ..LLE <sup>15</sup> .....S <sup>16</sup> .....                                                                   | 349   |
| GNKIGQG <sup>1</sup> KNN <sup>2</sup> VIRY <sup>3</sup> LEEN <sup>4</sup> PQIST <sup>5</sup> EI <sup>6</sup> EAV <sup>7</sup> IREQLLT                                                                                                                                                                                                                                            |       |

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|                                             |        |     |   |   |   |   |   |  |
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| NTDB id 159 SP RS09750 WP 001085462.1       | EIEIEE | 388 |   |   |   |   |   |  |
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| NTDB id 453 Spy49 1753c ACI62003.1          | EIED.. | 378 |   |   |   |   |   |  |
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| NTDB id 1123 OK783 RS03845 WP 003688695.1   | .....  | 348 |   |   |   |   |   |  |
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| consensus                                   |        |     |   |   |   |   |   |  |

-  non conserved
-  similar
-  ≥ 50% conserved