```
Health 1      CSAAPRPPSCAARTPPPCRIAPTPTAPSLSSHPARPTHRRHPAAPPPRSV.LGARKDDTSPGRGALPPDTSAGRGDPACGEWWPGSPP.....................        87
Health 2      CSAAPRPPSCAARTPPPCRIAPTPTAPSLSSHPARPTHRRHPAAPPPRSV.LGARKDDTSPGRGALPPDTSAGRGDPACGEWWPGSPP.....................        87
Patient A 1   CSAAPRPPSCAARTPPPCRIAPTPTAPSLSSHPARPTHRRHPAAPPPRSV.LGARKDDTSPGRGALPPDTSAGRGDPACGEWWPGSPP...................RA        89
Patient A 2   CSAAPRPPSCAARTPPPCRIAPTPTAPSLSSHPARPTHRRHPAAPPPRSV.LGARKDDTSPGRGALPPDTSAGRGDPACGEWWPGSPPRAPPRAPPRAPPRAPPRAPPRA       109
Patient B 1   CSAAPRPPSCAARTPPPCRIAPTPTAPSLSSHPARPTHRRHPAAPPPRSV.LGARKDDTSPGRGALPPDTSAGRGDPACGEWWPGSPP............RAPPRAPPRA        97
Patient B 2   CSAAPRPPSCAARTPPPCRIAPTPTAPSLSSHPARPTHRRHPAAPPPRSV.LGARKDDTSPGRGALPPDTSAGRGDPACGEWWPGSPP.....................        87
Patient C 1   CSAAPRPPSCAARTPPPCRIAPTPTAPSLSSHPARPTHRRHPAAPPPRSV.LGARKDDTSPGRGALPPDTSAGRGDPACGEWWPGSPP.....................        87
Patient C 2   CSAAPRPPSCAARTPPPCRIAPTPTAPSLSSHPARPTHRRHPAAPPPRSV.LGARKDDTSPGRGALPPDTSAGRGDPACGEWWPGSPP.....................        87
consensus     !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!


Health 1      ...................................................................................................................        87
Health 2      ...................................................................................................................        87
Patient A 1   PPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPP       199
Patient A 2   PPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPP       219
Patient B 1   PPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPP       207
Patient B 2   ...........RAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPP       187
Patient C 1   ...................................................................................................................        87
Patient C 2   ...................................................................................................................        87
consensus


Health 1      ..............................RAPPRAPPRASLLAGPPRPRRGLRSQSASSPPLGSARASRDPSAYLG.GAAASPRRVPSPDSLRRRQDDVRGALRHAAGHRR       168
Health 2      ..............................RAPPRAPPRASLLAGPPRPRRGLRSQSASSPPLGSARASRDPSAYLG.GAAASPRRVPSPDSLRRRQDDVRGALRHAAGHRR       168
Patient A 1   RAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRASLLAGPPRPRRGLRSQSASSPPLGSARASRDPSAYLG.GAAASPRRVPSPDSLRRRQDDVRGALRHAAGHRR       308
Patient A 2   RAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRASLLAGPPRPRRGLRSQSASSPPLGSARASRDPSAYLG.GAAASPRRVPSPDSLRRRQDDVRGALRHAAGHRR       328
Patient B 1   RAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRASLLAGPPRPRRGLRSQSASSPPLGSARASRDPSAYLG.GAAASPRRVPSPDSLRRRQDDVRGALRHAAGHRR       316
Patient B 2   RAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRAPPRASLLAGPPRPRRGLRSQSASSPPLGSARASRDPSAYLG.GAAASPRRVPSPDSLRRRQDDVRGALRHAAGHRR       296
Patient C 1   ..............................RAPPRAPPRASLLAGPPRPRRGLRSQSASSPPLGSARASRDPSAYLG.GAAASPRRVPSPDSLRRRQDDVRGALRHVAGHRR       168
Patient C 2   ..............................RAPPRAPPRASLLAGPPRPRRGLRSQSASSPPLGSARASRDPSAYLG.GAAASPRRVPSPDSLRRRQDDVRGALRRSRPPPR       168
consensus                                   !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!*****!


Health 1      DPAHRRP   175
Health 2      DPAHRRP   175
Patient A 1   DPAHRRP   315
Patient A 2   DPAHRRP   335
Patient B 1   DPAHRRP   323
Patient B 2   DPAHRRP   303
Patient C 1   DPAHRRP   175
Patient C 2   .PSTSPT   174
consensus     *!*****
```

X non conserved
X ≥50% conserved