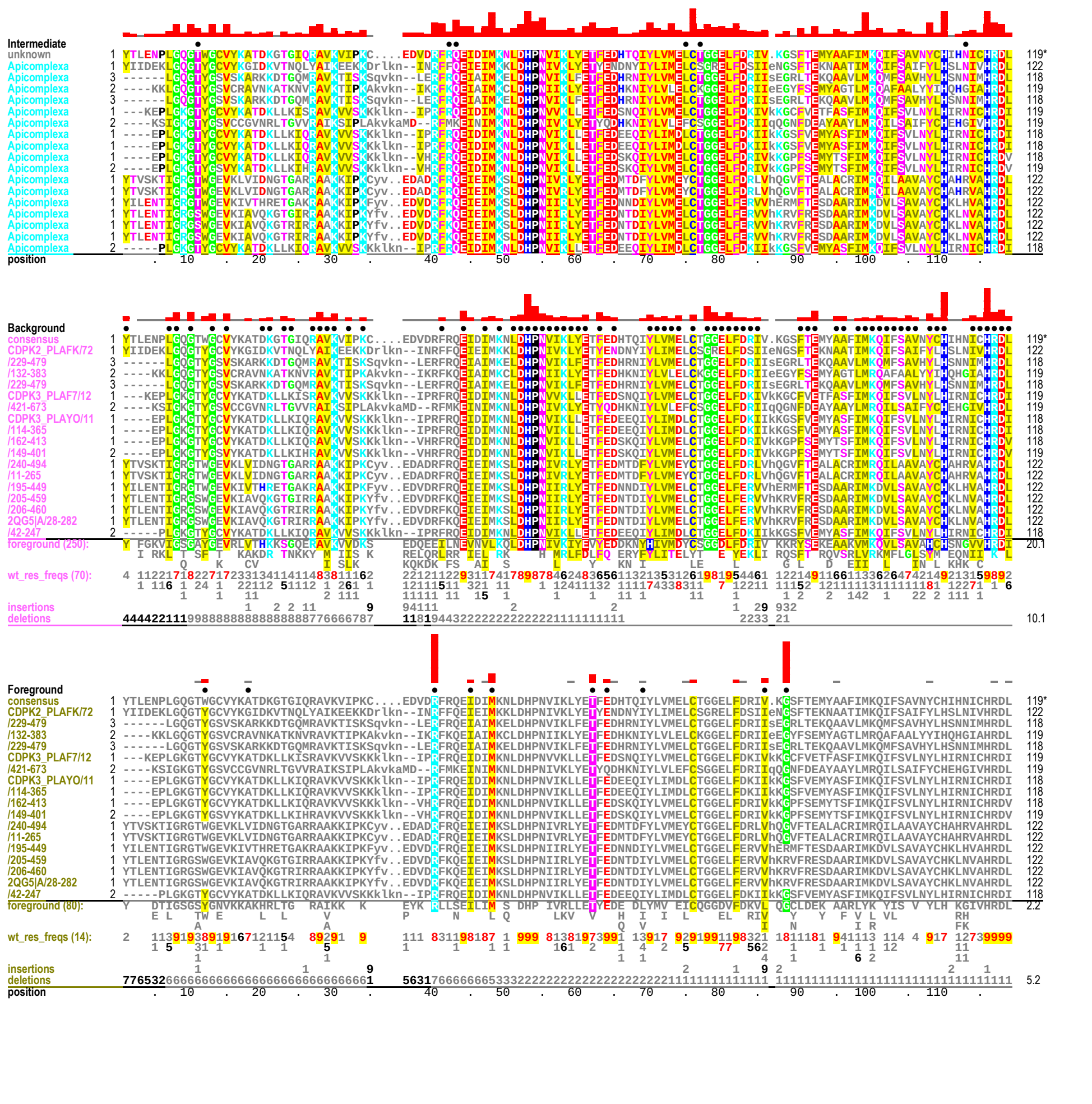
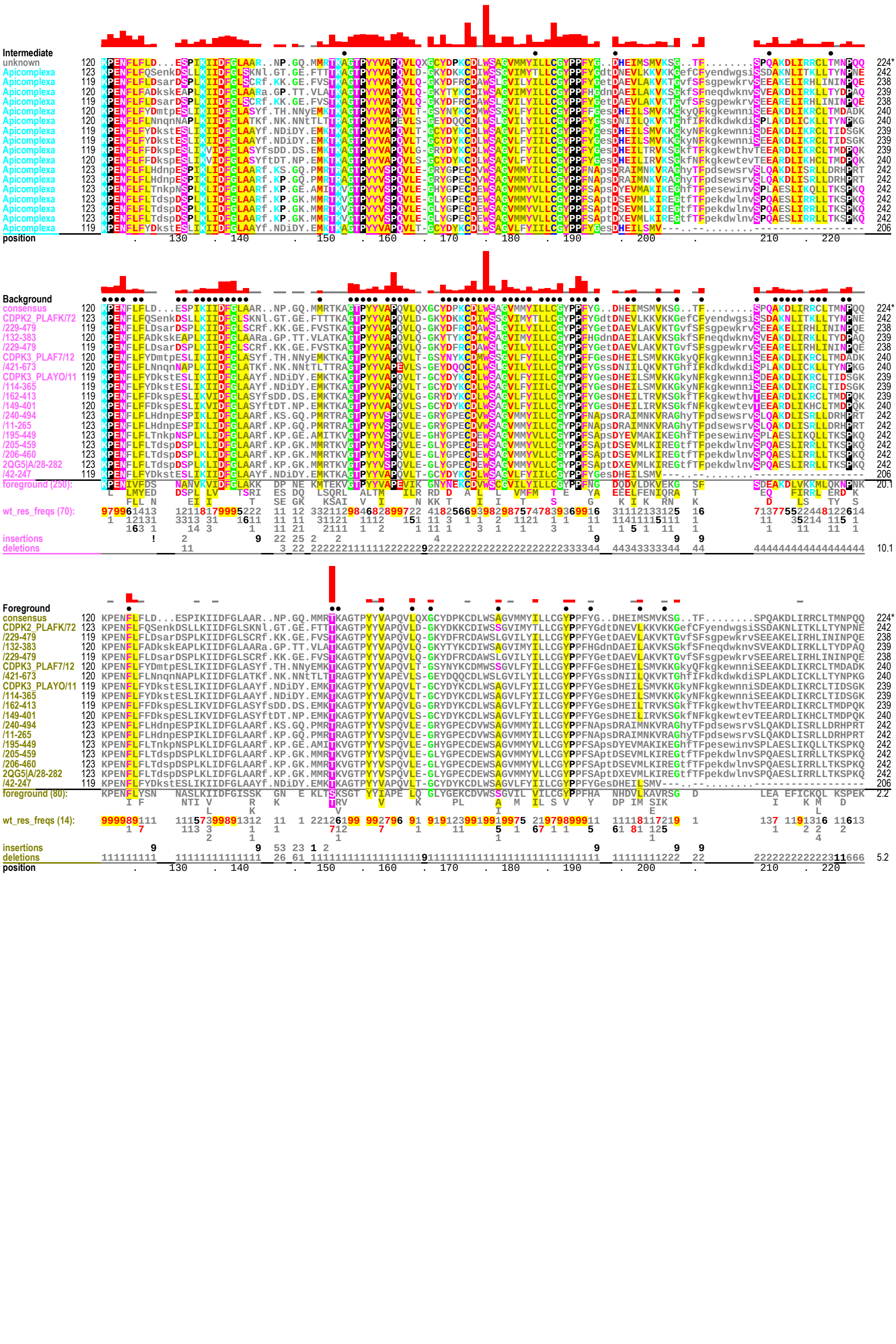
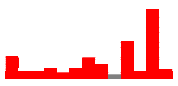
Apicomplexan CDPK subfamily vs. chromalveolate CDPK




Intermediate
unknown
Apicomplexa
position
Background
consensus
CDPK2_PLAFK/72
/229-479
/132-383
CDPK3_PLAF7/12
/421-673
CDPK3_PLAYO/11
/114-365
/162-413
/149-401
/240-494
/11-265
/195-449
/205-459
/206-460
2QG5|A/28-282
/42-247
foreground (250):
wt_res_freqs (70):
insertions
deletions
Foreground
foreground (80):
wt_res_freqs (14):



```
Intermediate
unknown        225 RITASQALQHPWF   237*
Apicomplexa    243 RCTIEEALNHPWI   255
Apicomplexa    239 RYTAEQALQHPWV   251
Apicomplexa    240 RLTAEQALAHPWI   252
Apicomplexa    239 RYTAEQALQHPWV   251
Apicomplexa    241 RICASEALQHPWF   253
Apicomplexa    241 RICARDALKHPWI   253
Apicomplexa    240 RINASEALKHPWF   252
Apicomplexa    240 RINASEALKHPWF   252
Apicomplexa    240 RATASEALRHPWF   252
Apicomplexa    241 RTTASEALRHPWF   253
Apicomplexa    243 RISAEQALRHAWF   255
Apicomplexa    243 RISAEQALRHAWF   255
Apicomplexa    243 RITAAQALKHEWF   255
Apicomplexa    243 RITSLQALEHEWF   255
Apicomplexa    243 RITSLQALEHEWF   255
Apicomplexa    243 RITSLQALEHEWF   255
Apicomplexa    207 -------------
position           .  230    .
```

```
Background         •  ••  •••  ••••
consensus      225 RITASQALQHPWF   237*
CDPK2_PLAFK/72 243 RCTIEEALNHPWI   255
/229-479       239 RYTAEQALQHPWV   251
/132-383       240 RLTAEQALAHPWI   252
/229-479       239 RYTAEQALQHPWV   251
CDPK3_PLAF7/12 241 RICASEALQHPWF   253
/421-673       241 RICARDALKHPWI   253
CDPK3_PLAYO/11 240 RINASEALKHPWF   252
/114-365       240 RINASEALKHPWF   252
/162-413       240 RATASEALRHPWF   252
/149-401       241 RTTASEALRHPWF   253
/240-494       243 RISAEQALRHAWF   255
/11-265        243 RISAEQALRHAWF   255
/195-449       243 RITAAQALKHEWF   255
/205-459       243 RITSLQALEHEWF   255
/206-460       243 RITSLQALEHEWF   255
2QG5|A/28-282  243 RITSLQALEHEWF   255
/42-247        207 -------------
foreground (250):  RISAEEALNHPWI   20.1
                    L  QQ  QD  L
                    P  KD  K   F
wt_res_freqs (70):  935714671658 4
                     13 13  12  1
                     1  11  2   1
insertions
deletions          4444444444561   10.1
```

```
Foreground
consensus      225 RITASQALQHPWF   237*
CDPK2_PLAFK/72 243 RCTIEEALNHPWI   255
/229-479       239 RYTAEQALQHPWV   251
/132-383       240 RLTAEQALAHPWI   252
/229-479       239 RYTAEQALQHPWV   251
CDPK3_PLAF7/12 241 RICASEALQHPWF   253
/421-673       241 RICARDALKHPWI   253
CDPK3_PLAYO/11 240 RINASEALKHPWF   252
/114-365       240 RINASEALKHPWF   252
/162-413       240 RATASEALRHPWF   252
/149-401       241 RTTASEALRHPWF   253
/240-494       243 RISAEQALRHAWF   255
/11-265        243 RISAEQALRHAWF   255
/195-449       243 RITAAQALKHEWF   255
/205-459       243 RITSLQALEHEWF   255
/206-460       243 RITSLQALEHEWF   255
2QG5|A/28-282  243 RITSLQALEHEWF   255
/42-247        207 -------------
foreground (80):   R SA EA KHPWV   2.2
                     KS  I     M
                     D         L
wt_res_freqs (14):  9 15 15 19381
                      11  1    1
                      1         1
insertions
deletions          5566666666611   5.2
position           .  230    .
```