Figure S1. Secondary structures of; panel A, the wild-type PmrB protein; panel B, protein PmrB exhibiting the Thr157Pro substitution. Position 157 is boxed in red.

(A)

```
10 . 20
                           . 30 . 40
     MALFATETWTMRHRLLLTIGAILVVCQLISVFWLWHESKEQIQLLVASAI
helix HHHHHHHHHHHHHHH
                                     HHHH
sheet
turns
 coil
                                            90
                       70
      EGHNNQKHVEHEVREAVASLLVPSLLIVGLALYISMLAVRKITRPLSRLQ
helix HH
             нинининини и
sheet
                                             EEEE E
turns
                                                 c ccccc
 coil
                    . 120
                              . 130
                                                  . 150
      SELENRTPDNLTPIVLSESVPEVTAVTTALNQLVSRLNLPLDRERLFTAD
helix
                           нинининин
                                               нининини
sheet
                 EFFFFF
                                     EFFFFF
         TTT TTT
turns
                       CCCC
                                           CCCC
                    . 170
                              . 180
                                        . 190
      VAHELRT Plag1r1h1e11AKVHGMGVDPLIQRLDQMTTSISQLLQLARV
helix HHHHHHHHHHHHHHHHHHHH
sheet
turns
                                          ccccc
 coil
                               CCC
                              . 230
                    . 220
      GQSFSAGSYQQVLLLDDVVKPLQDELEAMLAgrqqrll1TDIENEAVVSG
helix
sheet E
               EEEEEEE EEE
                                         EEE
turns T
                                            CCC
 coil
      cccc cc
                                          290
                    . 270
                                280
helix HHH
         EEEEEEE
                              EEEEEE
                                       E EE
sheet
                     TTT TTT
turns
 coil
                        CC
          . 310
                    . 320
                              . 330
                                        . 340
     KSGELSKAFVRMDSRYGGIGLGLSIVTRIAQLHDAQFFLHNRQPGPGVRA
                EE
                                                    EEE
sheet
                        E EEEEEEEE
turns
                  TTTTTT
 coil
                                                CCCCC
          . 360
     WVLFPORGGONVSTH
helix
sheet EEEE
                  EEE
turns
           TTTT
 coil
```

(B)

```
. 10 . 20 . 30 . 40 . 50
   MALFATETWTMRHRLLLTIGAILVVCOLISVFWLWHESKEOIOLLVASAI
sheet EEEEEEEEEE
turns
coil
. 60 . 70 . 80 . 90 . 100
EGHNNOKHVEHEVREAVASLLVPSLLIVGLALYISMLAVRKITRPLSRLO
helix HH HHHHHHHHHHHH H HHHHHHHH
      EE EEEEEEE EEEE E
sheet
turns
coil CCCCC
                            c ccccc
 . 110 . 120 . 130 . 140 . 150
 SELENRTPDNLTPIVLSESVPEVTAVTTALNQLVSRLNLPLDRERLFTAD
helix HHHHHHHHH HHHHHHH
sheet EEEEEE EEEEEE
turns TTT TTT
coil CCC C C CCCC CCCC
 ._160 . 170 . 180 . 190 . 200
   VAHELRPPlaglrlhlellAKVHGMGVDPLIQRLDQMTTSISQLLQLARV
sheet EEE EEE EEEEEEEE turns T
         TT T CCC CCCCC
coil CCC
. 210 . 220 . 230 . 240 . 250
GQSFSAGSYQQVLLLDDVVKPLQDELEAMLAgrqqr111TDIENEAVVSG
helix HHHHHHHHHHHHHH HHHHHHH
sheet E EEEEEEE EEE EEE
turns T T T
coil CCCC CC
                       CCC
coil CCCC CC
     . 260 . 270 . 280 . 290 . 300
  DATLIRVILRNLVENAHRYSPEGSTIRVSVKAGLMPVMAVEDEGPGIDEA
helix HHH HHHHH HHHHH
sheet EEEEEE EEE
turns TTT TTT
      cc cc c ccc cc
. 310 . 320 . 330 . 340 . 350
 KSGELSKAFVRMDSRYGGIGLGLSIVTRIAQLHDAQFFLHNRQPGPGVRA
helix HHHHHHHHHH
sheet EE E EEEEEEEE EE EEE
turns TTTTTT CCCC
. 360
WVLFPQRGGQNVSTH
helix
sheet EEEE EEE
turns TTTT
coil C CCC
```