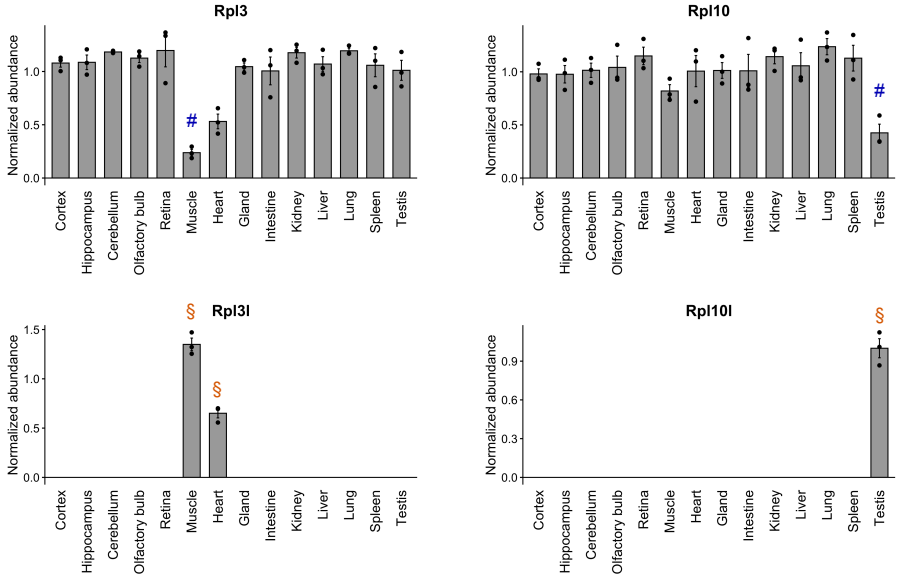
Supplementary Figure 4

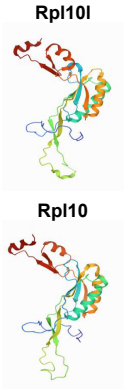
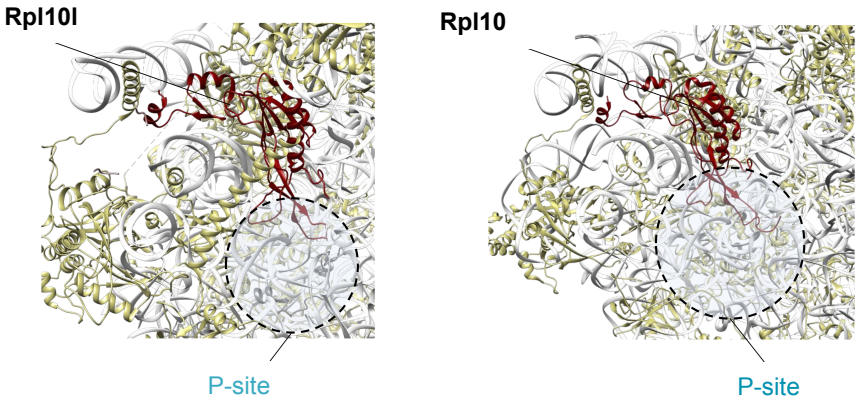
A



B

```
CLUSTAL O(1.2.4) multiple sequence alignment

RL10L_MOUSE     MGRRPARCYRYCKNKPYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMVSDEYEQL
RL10_MOUSE      MGRRPARCYRYCKNKPYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMVSDEYEQL
                ************************************************************

RL10L_MOUSE     SSEALEAARICANKYMVKSCGKDGFHIRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFG
RL10_MOUSE      SSEALEAARICANKYMVKSCGKDGFHIRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFG
                ************************************************************

RL10L_MOUSE     KPQGTVARVHIGQVIMSIRTKLQNKEHVIEALRRAKFKFPGRQKIHISKKWGFTKFNADE
RL10_MOUSE      KPQGTVARVHIGQVIMSIRTKLQNKEHVIEALRRAKFKFPGRQKIHISKKWGFTKFNADE
                ************************************************************

RL10L_MOUSE     FEDKVAAKRLIPDGCGVKYIPERGPLDKWRALHS
RL10_MOUSE      FEDMVAEKRLIPDGCGVKYIPNRGPLDKWRALHS
                *** ** **************:************
```

C



D 4v6x Human ribosome 6oli Human ribosome