A

```
CBL2 : MSQCVDGIKHLCTSVLGCFDLDLYKQ----SGGLGDPELLA
CBL3 : MSQCIDGFKHVCSSFFRCFDIDIYKQ----SGGLGDPELLA
CBL1 : ---------------MGCFHSKAAKE----FRGHEDPVKLA
CBL4 : ---------------MGCSVSKKKKKNAMRPPGYEDPELLA
CBL5 : ---------------MGCVCSKQLEG-----RRQEDISLLA
CBL9 : ---------------MGCFHSTAARE----FPDHENPVKLA
```

B

Supplementary information, Figure S2 The N-terminal 16-aa of CBL2 is required but not sufficient for its tonoplast targeting.

(A) The N-terminal regions of CBL2, CBL3, CBL1, CBL4, CBL5 and CBL9 from *Arabidopsis thaliana* were aligned using the Clustal-W program. Amino acids that feature the N-terminal extension of CBL2/3 are framed. **(B)** The coding sequence of CBL2, CBL2 without N-terminal 16-aa and N-terminal 16-aa alone were in-frame cloned into the pA7-YFP vector, and transiently expressed in *Arabidopsis* mesophyll protoplasts to give rise to CBL2-YFP, CBL2ΔN16-YFP and CBL2N16-YFP, respectively. In each panel, the YFP signals (green), chloroplast fluorescence (red), overlay and bright field images from the same cell are shown. Scale bar = 5 μm.