

SUPPLEMENTARY ONLINE DATA

The proteasome cap RPT5/Rpt5p subunit prevents aggregation of unfolded ricin A chain

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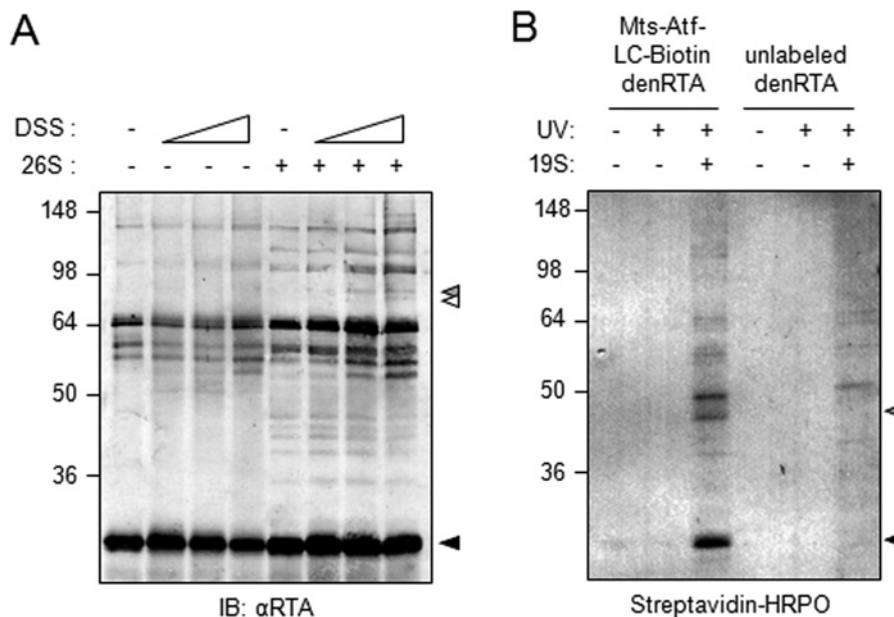


Figure S1 Chaotrope-denatured RTA makes limited interactions with proteasomes

(A) GdnHCl-denatured RTA (40 nM) was mixed with (+) or without (-) 26S proteasomes (40 nM) in the absence or the presence of increasing concentrations (40, 400 and 4000 nM) of the cross-linking agent DSS, products were separated by reducing SDS/PAGE and RTA (black arrowhead) and cross-linked adducts (grey and white arrowheads) were identified by anti-RTA immunoblot analysis. (B) Denatured RTA conjugated with Mts-Atf-LC-biotin was irradiated with UV or mixed with 19S caps and subsequently irradiated, and biotin was identified following SDS/PAGE and blotting by probing with streptavidin. IB, immunoblot; denRTA, denatured RTA. Molecular mass in kDa is indicated on the left-hand side.

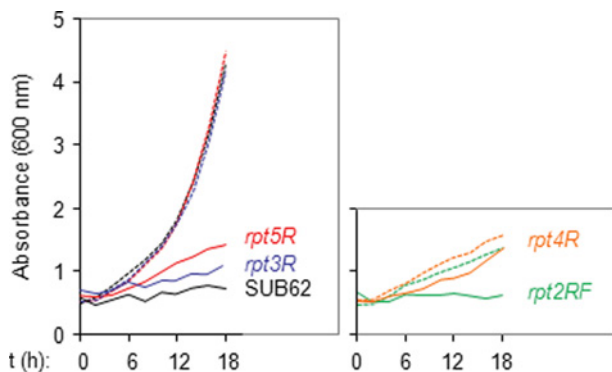


Figure S2 Compiled yeast growth data on galactose medium from Figure 6 of the main text

Curve fits and data points have been removed for clarity. Broken lines, vector transformed; solid lines, RTA-expressing. Black, SUB62; green, rpt2RF; blue, rpt3R; orange, rpt4R; red, rpt5R.

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