SUPPLEMENTAL FIGURES

Supplemental Figure 1



Fig. S1. Deacetylation of Rtt109 by Hst2. (A) A representative MS/MS chromatogram depicts deacetylated K290, with singly charged y-series ions labeled (inset: theoretical b and y fragment ions). (B) Acetyl-lysine immunoblots (top) and SDS-PAGE coomassie stained gels (bottom) of the Hst2 (5 μ M) catalyzed deacetylation of Rtt109 (10 μ M) reaction at various time points.



Fig. S2. SDS-PAGE gel of proteins used in thermal denaturation assays. (A) Gel of various Rtt109-Vps75 complexes. (B) Gel of Rtt109 and deacetylated Rtt109.

Supplemental Figure 3



Fig. S3. Intrinsic protein fluorescence measurements with RV mutants and acetyl-CoA. Representative emission spectra of the fluorescence reduction due to acetyl-CoA binding to RV and K290 mutants. (A) RV: 0 μM (blue), 0.44 μM (red), 0.89 μM (black), 1.78 μM (green), 3.56 μM (yellow), 7.11 μM (orange), 14.22 μM (purple), 28.44 μM (light green) and 56.90 μM (light blue) of acetyl-CoA was titrated into RV (0.5 μM). (B) K290Q RV: 0 μM (blue), 14.22 μM (red), 28.44 μM (black), 42.67 μM (green), 56.89 μM (yellow), 85.33 μM (orange), 113.78 μM (purple) and 170.67 μM (light green) of acetyl-CoA was titrated into K290Q RV: 0 μM (blue), 28.44 μM (black), 42.67 μM (black), 42.67 μM (green), 56.89 μM (yellow), 85.33 μM (orange), 113.78 μM (orange), 113.78 μM (black), 42.67 μM (black), 42.67 μM (green), 56.89 μM (green), 56.89 μM (yellow), 85.33 μM (orange), 113.78 μM (orange), 113.78 μM (black), 42.67 μM (light green) and 227.56 μM (light blue) of acetyl-CoA was titrated into K290R RV (0.5 μM).