**File Name:** Supplementary Data 1

**Description:** This file contains all deuterium uptake values used to generate figures showing Ubp6-dependent deuteration differences within peptides from Rpt1-Rpt6 of purified regulatory particle (Fig. 1d, Supplementary Fig. 5a) and within Ubp6 (Supplementary Fig. 5b). Peptide coverage maps for Rpt1-Rpt6 and Ubp6 are also provided.