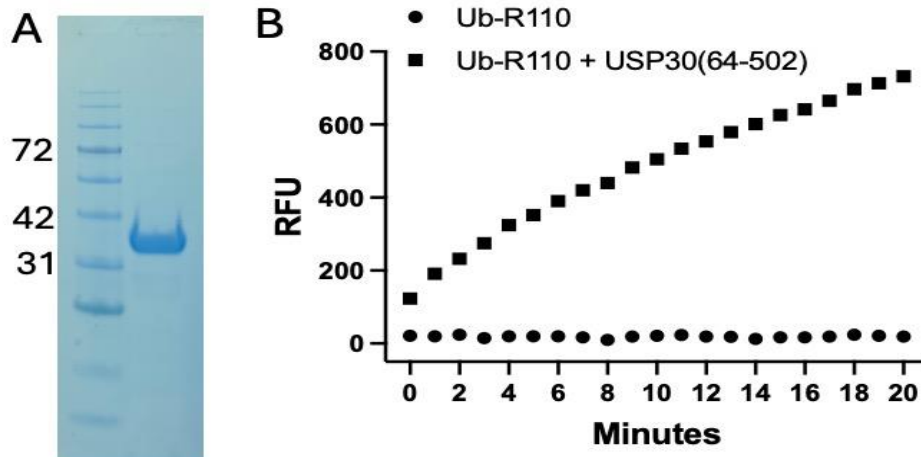


# USP30(64-502)

Cat# H7820

**Also Known as:** N/A  
**NCBI Reference:** NM\_032663.4  
**MW (no tag):** 37.4 kDa  
**Species:** Human  
**Source:** Bacterial recombinant  
**Tag:** No  
**Stock Buffer:** 20 mM Tris, 150 mM NaCl, 5 mM TCEP, 10% Glycerol  
**Concentration:** See tube label  
**Quality Assurance:** ~90% by SDS-PAGE

## Image



### A. Coomassie-stained SDS-PAGE

Lane 1: Molecular weight markers  
Lane 2: 5 µg purified GST-USP30(64-502)

### B. DUB activity of recombinant USP30(64-502)

Reactions contained 10 nM USP30(64-502) + 500 nM Ub-Rhodamine 110 or Ub-Rhodamine 110 alone in DUB buffer II (cat# H1001). Rhodamine 110 fluorescence was measured using a plate reader with the excitation and emission filter set at 485/20 nm and 528/20 nm, respectively.

**Description:** USP30(64-502) contains the catalytic domain of USP30 with additional loops being deleted. This variant is stable and highly active compared to the commonly used USP30(57-517) (ref. 4 below). USP30 deubiquitinates substrates of Parkin including MIRO1, TOMM20, MFN1, and MFN2 on mitochondrial membranes and functions to suppress mitophagy. It prefers cleavage of K6- and K11-linked polyubiquitin chains.



**Storage:** Store at -80°C; avoid multiple freeze-thaw cycles

- Literature:**
1. Bingol B, *et al.* (2014) Nature 510: 370
  2. Cunningham CN, *et al.* (2015) Nat Cell Biol. 17: 160
  3. Wang, Y, *et al.* (2015) Autophagy 11: 595
  4. Gersch M, *et al.* (2017) Nat Struct Mol Biol. 24(11): 920





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