

Figure S1. Example mass spectra of light- and heavy- labeled peptide pairs showing strong up-regulation of LSP-1 α , LSP-1 β , LSP-1 γ , and FBP-1 from both forward and reverse labeling experiments. a) [LMGLGEHWYSESNYILR+2H]²⁺ and b) [SIAQVYFQFMHHLPK+2H]²⁺ are peptides derived from LSP-1 α ; c) [YDFPLDISEPHCGFPDR+2H]²⁺ and d) [RGEWWLYNVHQLLSR+3H]³⁺ are peptides derived from LSP-1 β ; e) [RGEYWIYNVQQILAR+2H]²⁺ and f) [FLFEIVHR+2H]²⁺ are peptides derived from LSP-1 γ ; g) [FILDIVQNIR+2H]²⁺ and h) [LSEIVLHNLR+2H]²⁺ are peptides derived from FBP-1. a), c), e), and g) show peptides identified from the forward labeling experiment and b), d), f), and h) show peptides identified from the reverse labeling experiment.

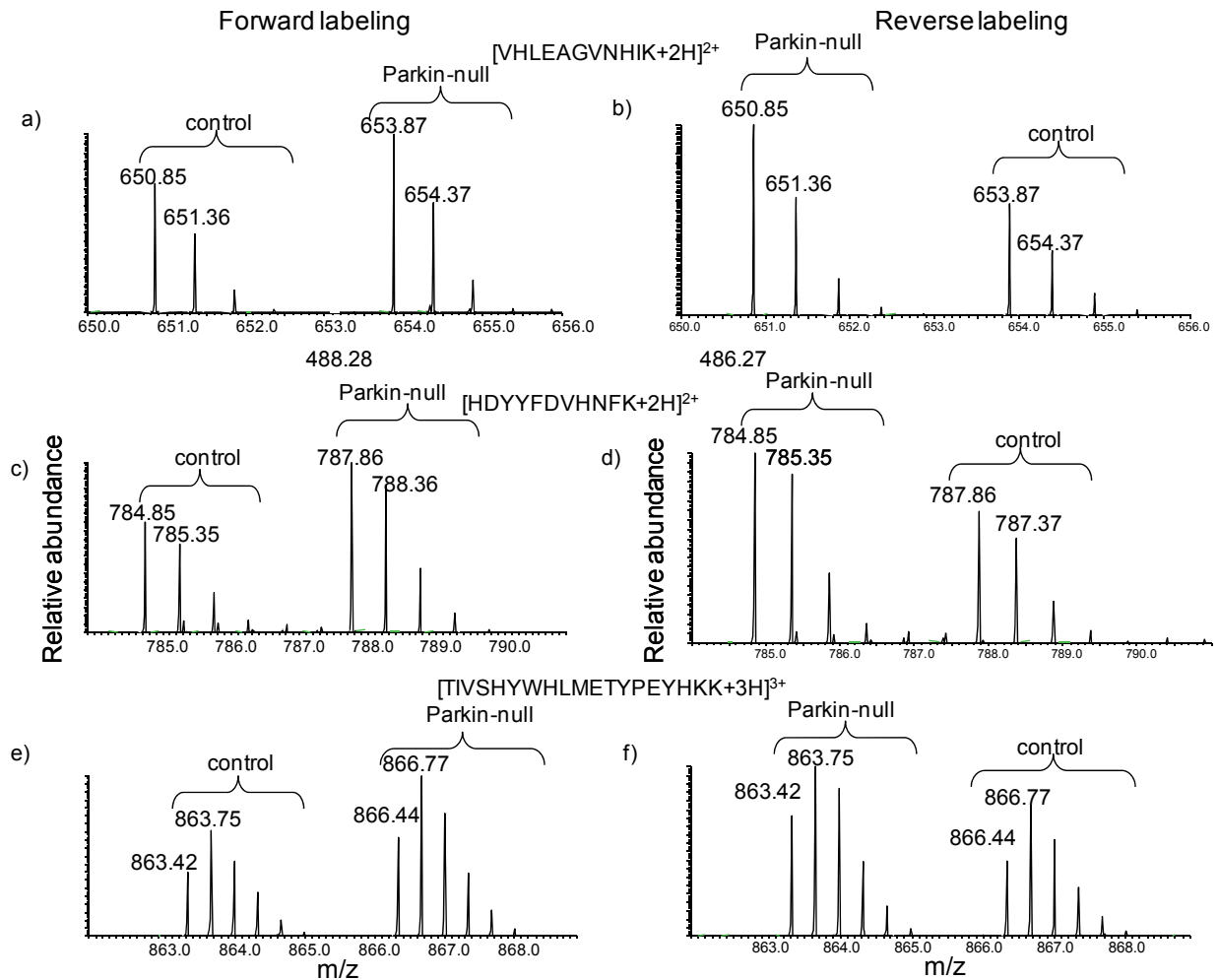


Figure S2. Example mass spectra of light- and heavy- labeled peptide pairs showing mild up-regulation of LSP-2 from both forward and reverse labeling experiments. a) and b) show doubly charged peptide ion $[VHLEAGVNHK+2H]^{2+}$; c) and d) show doubly charged peptide ion $[HDYYFDVHNFK+2H]^{2+}$; e) and f) show triply charged peptide ion $[TIVSHYWHLMETYPEYHKK+3H]^{3+}$. a), c), and e) show peptides identified from the forward labeling experiment; b), d), and f) show peptides identified from the reverse labeling experiment.