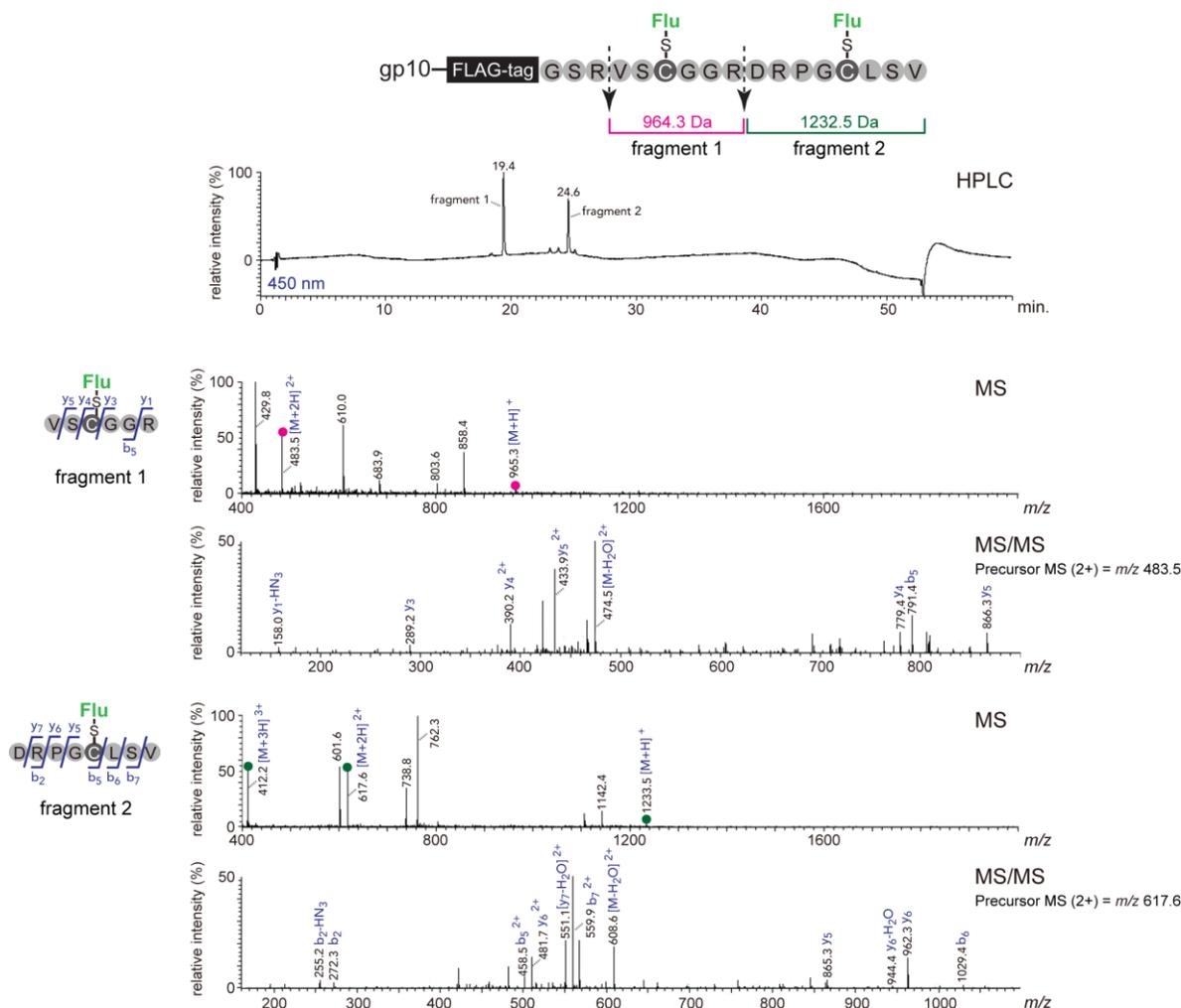


## Supplementary Information

**Figure S1.** Identification of peptide fragments derived from fluorescein (Flu)-conjugated T7 phage-displayed peptide by LC-MS/MS. Upper panel: 450 nm (Flu absorption under low pH condition) chromatogram of the trypsinized peptide-fused gp10. Note that trypsin could not cleavage before proline. Middle and lower panels: MS and MS/MS spectra correspond to the trypsinized two peptide fragments possessing a Flu moiety.



**Figure S2.** Mass spectrometric analysis of chemically synthesized peptides. MS spectra of the mock peptide (upper panel) and the Sal-conjugated peptide (lower panel).

