



**Supplemental data S6: MS/MS spectra of the peptide LRFPEILQK.** (A) MS2 spectrum of the synthetic peptide LRFPEILQK. (B) Experimental MS2 spectrum of a molecular species at  $m/z$  = 381.90 fragmented during LC-MS analysis of the HLA-B\*27-bound peptidome. (C) Experimental MS2 spectrum of a molecular species at  $m/z$  = 381.90 fragmented during LC-MS analysis of the Mamu-B\*08-bound peptidome