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Supplementary information for A Streamlined and Time-Saving Approach to Generate HLA-DR15 MHC Class II Tetramers via In Vivo Biotinylation

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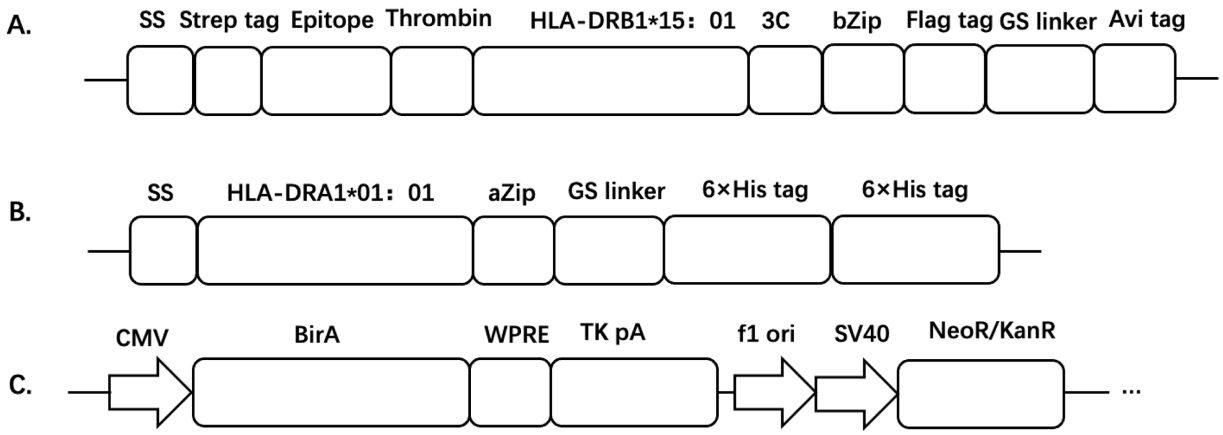

Figure S1. Design of plasmid for class II CLIP/peptide-loaded major histocompatibility complex (pMHC) protein expression. (A) β chain transgene design. SS, igk signal sequence; thrombin, thrombin cleavage site; 3C, HRV-3C cleavage site; bZip, basic leucine zipper; Avi tag, BirA recognition site. (B) α chain transgene design. aZip, acidic leucine zipper. (C) Schematic representation of BirA sequence insertion into the pcDNA3.4 vector. CMV, cytomegalovirus promoter; TK pA, thymidine kinase polyadenylation signal; f1 ori, f1 origin of replication; SV40, SV40 promoter and origin; NeoR/KanR, neomycin/kanamycin resistance gene.