

## **Supplementary Figure legends**

**Supplementary Figure S1.** Immunologic monitoring of each peptide-specific T cell response in each patient. The CTL responses were assessed by the number of peptide-specific spots which were average of triplicates by subtracting the negative control well from the immunized peptide-pulsed stimulator well at a 1/4 mixture ratio of responder cells to stimulator cells. The expressions of peptide-specific T cell receptors were analyzed with LY6K, TTK or DEPDC1-multimer with flow cytometry.

**Supplementary Figure S2.** An algorithm to define the responses of antigen-specific T cells by using the ELISPOT assay. The peptide-specific spots (SS) were the average of triplicates by subtracting the negative control well from the immunized peptide-pulsed stimulator well. The %SS indicated the percentage of SS among the average spots of the immunized peptide-pulsed stimulator well.