

Description of Additional Supplementary Files

Supplementary Data Legends

Supplementary Data 1: CircRNA-derived peptides, overlapping the BSJ encoding region, detected in T1185B upon MG312 and IFN γ treatments.

Supplementary Data 2: GOBP, GOCC and KEGG presentation enrichment analysis of differentially presented peptides upon IFN γ treatment. Two-sided Wilcoxon-Mann-Whitney test, 1D annotation enrichment, IFN γ versus Control, using Student's t-test difference and a Benjamini-Hochberg FDR threshold value of 1E-4 (FDR=0.02 for HLA-alleles).

Supplementary Data 3: KEGG and GOBP presentation enrichment analysis of differentially presented peptides upon MG132 treatment. Two-sided Wilcoxon-Mann-Whitney test, 1D annotation enrichment, 1D annotation enrichment, MG132 versus Control, using Student's t-test difference and a Benjamini-Hochberg FDR threshold value of 1E-4 (FDR=0.02 for HLA-alleles).

Supplementary Data 4: HLA-I peptide binding prediction in the Lung Cohort (NetMHCpan - 4.1).

Supplementary Data 5: HLA-II circRNA-derived peptides, overlapping the BSJ encoding region, detected in the lung cohort (eight patients with matching healthy tissue) through DDA-DIA FragPipe Analysis with group-specific FDR calculation.

Supplementary Data 6: HLA-II peptide binding prediction in the Lung Cohort (NetMHCIIpan - 4.1).

Supplementary Data 7: List of raw files used in each MS search analysis.