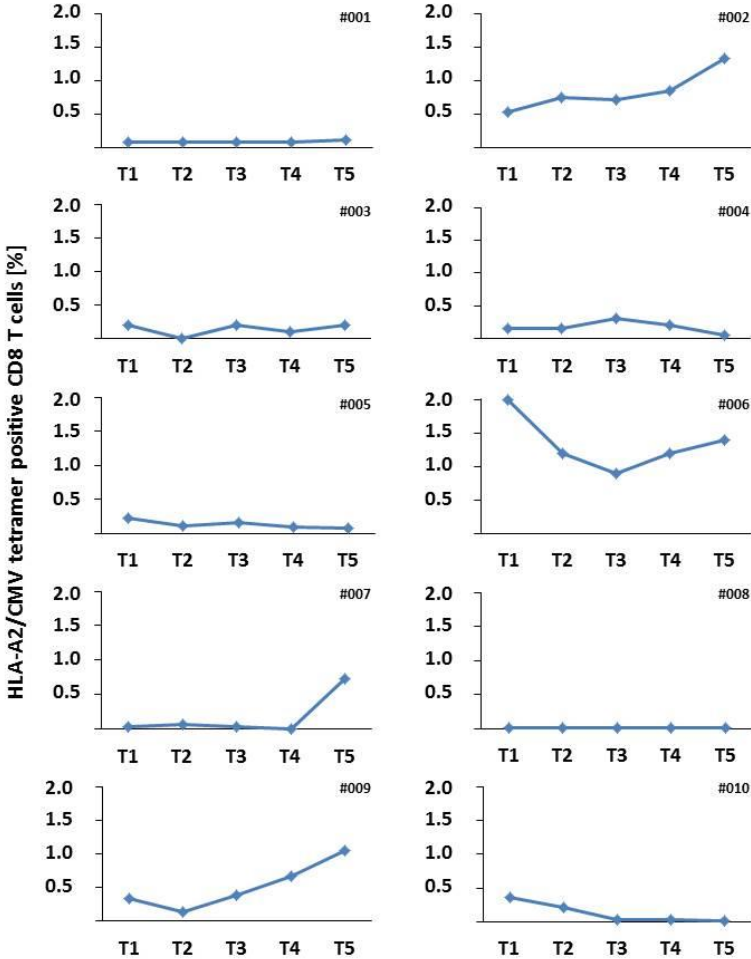


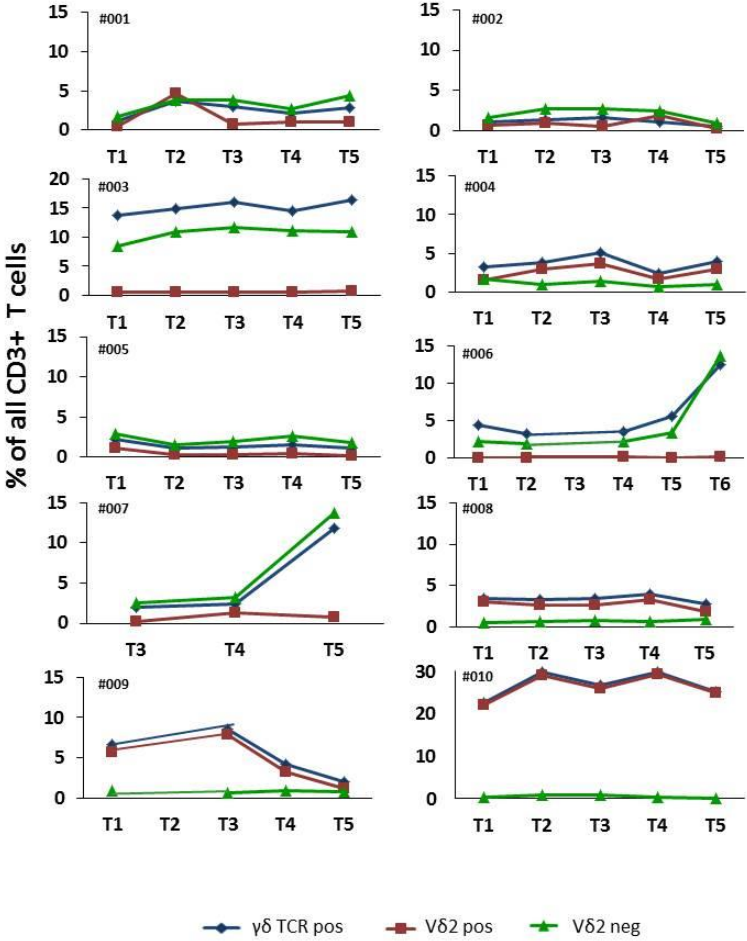
Supplementary Materials

Figure S1. CMV-specific $\alpha\beta$ T cell frequencies during vaccination.



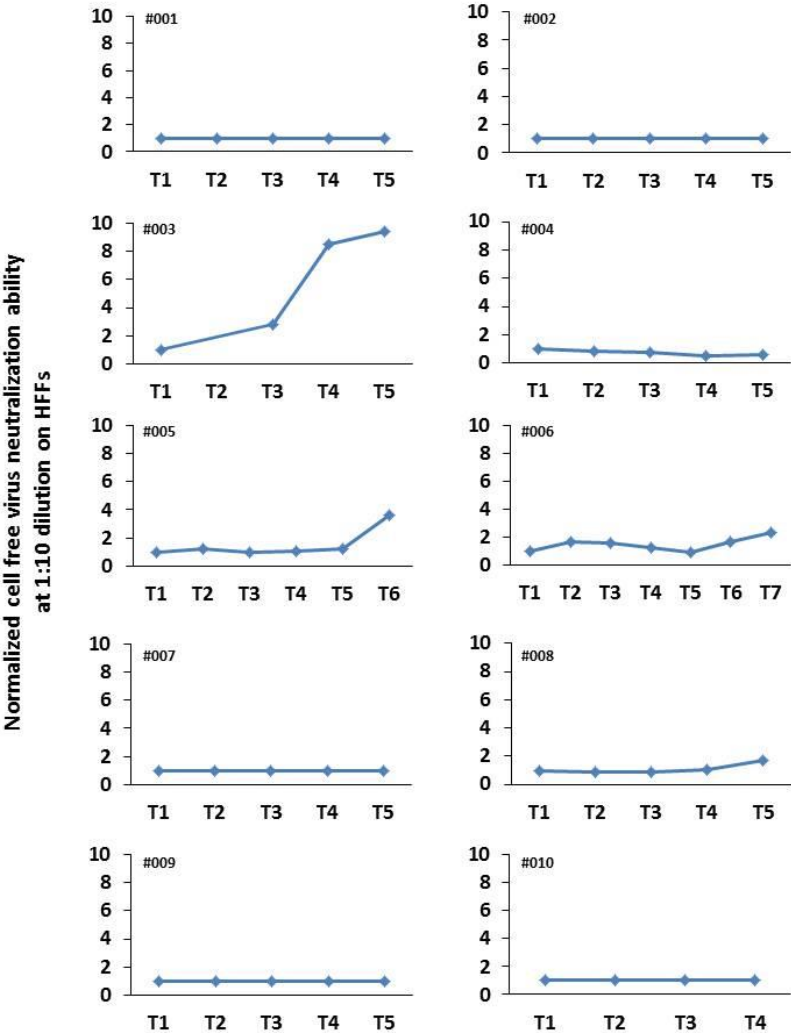
Multiparametric flow cytometry revealed an increase of CD8⁺ / HLA-A2 CMVpp65-specific tetramer positive T lymphocytes over the course of repetitive CMVpp65 vaccinations in patients #002, #007 and #009 corresponding to a clearance of CMV.

Figure S2. $\gamma\delta$ T cell frequencies during vaccination.



The frequency of CD3⁺ $\gamma\delta$ T cells as well as V δ 2 negative and V δ 2 positive subpopulations were assessed over the course of CMV peptide vaccination as described in the online methods section. The V δ 2 negative subpopulation of particular importance for the clearance of the CMV load increased significantly in patients #001, #003, #006 and #007.

Figure S3. CMV neutralizing antibodies.



CMV neutralizing antibody titers were assessed over the course of CMV peptide vaccination as described in the online methods section. Time points of assessment: T1 – before 1st vaccination; T2/T3/T4/T5 – after 1st/2nd/3rd/4th vaccination; T6/T7 – approximately one or three months after 4th vaccination. (HFFs = Human Foreskin Fibroblast Cells).