

## Supplementary File

### Supplementary Tables

- **Supplementary Table 1:** The RNA-seq count matrix.
- **Supplementary Table 2:** Differential expression analysis between IL-21-primed and control CD8 T cells.
- **Supplementary Table 3:** Reactome pathway analysis of the genes up-regulated in IL-21-primed CD8 T cells.
- **Supplementary Table 4:** Reactome pathway analysis of the genes down-regulated in IL-21-primed CD8 T cells.

### Key Materials and Resources

REAGENT or RESOURCE	Source/ References
<b>Experimental models: Mouse strains</b>	
C57BL/6J wild-type mice	WEHI, maintained in house.
<b>Antibodies</b>	
Anti-Human CD3 (SK7)	BD Biosciences
Anti-Human CD8a (HIT8a)	Biolegend
Anti-Human CD4 (SK3)	Biolegend
Anti-Human CD69 (FN50)	Biolegend
Anti-Human CD226 (11A8)	Biolegend
Anti-Human CD28 (28.2)	Biolegend
Anti-Human/Mouse Granzyme B (GB11)	Biolegend
Anti-Human Perforin (dG9)	Biolegend
Anti-Human CD107a (H4A3)	Biolegend
Anti-Human CD269/BCMA (19F2)	Biolegend
Anti-Human CD360/IL-21R (17A10)	Biolegend
Anti-Human CD155 (SKII.4)	Biolegend
Anti-Human CD112 (TX31)	Biolegend
Anti-Human CD80 (2D10)	Biolegend
Anti-Human CD86 (GL-1)	Biolegend























