

Fig. S1

| Peptide dose | No. | course | CTL Response | | | | | Multimer analysis | | |
|--------------|--------|--------|--------------|-------|-------|--------|------------------|-------------------------------|------------------------------|---------------------------------|
| | | | LY6K | TTK | IMP3 | DEPDC1 | Positive control | LY6K multimer+ / CD3+CD4- (%) | TTK multimer+ / CD3+CD4- (%) | DEPDC1 multimer+ / CD3+CD4- (%) |
| 0.5mg | 1 | pre | 1.6 | 0 | 1.6 | 0 | 8.4 | NA | NA | NA |
| | | Post 1 | 5.3 | 3.7 | 4.0 | 0 | 47.0 | NA | NA | NA |
| | 3 | pre | 138.3 | 2.0 | 2.6 | 193.3 | 249.0 | 7.60 | 0.40 | 0.00 |
| | | Post 1 | 257.0 | 0 | 0 | 293.7 | 416.0 | 14.40 | 0.00 | 0.02 |
| | | Post 2 | 62.7 | 5.3 | 5.4 | 68.3 | 416.4 | 6.70 | 0.10 | 0.06 |
| | | Post 3 | 42.0 | 92.4 | 1.0 | 237.6 | 406.7 | 4.30 | 6.10 | 0.51 |
| | | Post 4 | 159.6 | 30.7 | 8.0 | 284.6 | 231.0 | 13.30 | 1.80 | 0.39 |
| | | Post 5 | 216.4 | 24.0 | 7.0 | 443.3 | 233.7 | 13.40 | 1.20 | 0.48 |
| | | Post 6 | 186.6 | 28.3 | 0 | 367.3 | 207.0 | 11.30 | 2.80 | 0.55 |
| | | Post 7 | 88.3 | 18.3 | 0 | 279.3 | 295.0 | 5.20 | 1.40 | 0.27 |
| | | Post 8 | 55.0 | 7.4 | 0.7 | 147.7 | 442.0 | 4.20 | 1.00 | 0.44 |
| Post 9 | 88.6 | 74.4 | 0 | 206.7 | 436.4 | 8.40 | 8.20 | 0.33 | | |
| 1mg | 4 | Pre | 0 | 0 | 0 | 6.7 | 291.3 | 0.01 | NA | NA |
| | | Post 1 | 8.0 | 160 | 0 | 8.4 | 123.6 | 0.17 | NA | NA |
| | | Post 2 | 26.7 | 1.7 | 0 | 46.7 | 271.6 | 0.25 | NA | NA |
| | | Post 3 | 3.3 | 1.6 | 0 | 7.7 | 102.0 | 0.08 | NA | NA |
| | | Post 4 | 0 | 0 | 0.3 | 17.4 | 149.0 | 0.08 | NA | NA |
| | | Post 6 | 26.7 | 0.4 | 3.7 | 6.4 | 714.3 | 1.00 | NA | NA |
| | | Post 7 | 4.7 | 1.7 | 1.7 | 5.4 | 822.0 | 0.38 | NA | NA |
| | 5 | Pre | 10.3 | 0 | 0 | 0 | 692.3 | 0.11 | NA | 0.00 |
| | | Post 1 | 18.3 | 0 | 0 | 0 | 711.3 | 1.37 | NA | 0.01 |
| | | Post 2 | 43.3 | 0 | 0 | 0.6 | 708.3 | 4.44 | NA | 0.01 |
| | | Post 3 | 0 | 3.0 | 0 | 10.0 | 665.6 | 0.16 | NA | 1.59 |
| | | Post 4 | 117.6 | 0 | 5.7 | 97.7 | 716.0 | 12.89 | NA | 5.92 |
| | 6 | Pre | 0 | 0 | 0 | 9.0 | 580.7 | 0.06 | NA | 0.00 |
| | | Post 1 | 0 | 0.4 | 11.4 | 0 | 753.7 | 0.22 | NA | 0.00 |
| Post 2 | | 203.3 | 0 | 2.4 | 138.0 | 635.6 | 12.75 | NA | 4.44 | |
| 2mg | 7 | Pre | 9.4 | 0 | 0 | 0 | 727.3 | 0.54 | NA | 0.00 |
| | | Post 1 | 37.7 | 0 | 7.3 | 52.6 | 757.7 | 3.44 | NA | 0.03 |
| | | Post 2 | 164.0 | 0 | 0 | 37.3 | 683.0 | 27.77 | NA | 0.00 |
| | | Post 4 | 89.6 | 8.0 | 1.4 | 91.6 | 733.4 | 24.65 | NA | 1.52 |
| | | Post 6 | 89.0 | 23.6 | 10.7 | 48.4 | 716.0 | 24.75 | NA | 0.83 |
| | | Post 7 | 153.0 | 130.6 | 8.3 | 129.7 | 415.7 | 10.61 | 14.98 | 0.16 |
| | | Post 8 | 62.4 | 246.2 | 4.3 | 118.4 | 365.0 | 4.85 | 40.45 | 0.00 |
| | | 8 | Pre | 7.7 | 0 | 2.0 | 9.0 | 753.0 | 0.40 | 0.00 |
| | Post 1 | | 467.7 | 0 | 8.7 | 31.6 | 844.7 | 13.69 | 0.02 | 0.45 |
| | Post 2 | | 353.7 | 0 | 0 | 58.0 | 781.7 | 22.94 | 0.00 | 0.60 |
| | Post 3 | | 703.3 | 0 | 0 | 160.0 | 896.0 | 58.29 | 0.02 | 1.51 |
| | Post 4 | | 558.7 | 35.4 | 0 | 183.3 | 753.0 | 32.91 | 0.36 | 2.23 |
| | 9 | Pre | 4.0 | 0.3 | 0 | 0 | 727.3 | 0.86 | NA | 0.01 |
| | | Post 1 | 0 | 3.0 | 0 | 0 | 757.7 | 0.58 | NA | 0.00 |
| | | Post 2 | 26.0 | 0.7 | 0 | 1.7 | 683.0 | 3.49 | NA | 0.00 |
| | | Post 3 | 21.7 | 3.0 | 0 | 53.0 | 733.4 | 2.13 | NA | 0.00 |