Supplementary Information 1: Statistical analysis of difference in slopes for the CAR MFI during multiple stimulations: For 1 to 4 stimulations, relative CAR MFI values were compared between groups using linear regression with an interaction term between time and group, as below.

Model: relative\( \text{CAR} = b_0 + b_1 \times \text{time} + b_2 \times \text{group} + b_3 \times \text{time} \times \text{group} \)

In this model if two groups have the same slope then \( b_3 \) will be 0 and the slope shared by the groups will be represented by \( b_1 \). Conversely if the two groups have different slopes then one will be \( b_1 \) and the other will be \( b_1+b_3 \) and \( b_3 \) will represent the difference in slopes. Therefore a test of significance for \( b_3 = 0 \) is a test of significance for a test of equal slopes which can be conducted using a Wald test at 5% significance level.

For this analysis, we only consider the relative CAR MFI values observed between 12 and 48 hours.

The comparison of slopes for TRAC-LTR and TRAC was not statistically significant; however, we note the TRAC-LTR RNA expression levels display a non-linear trend that diminished our power to detect observable differences between the two groups, but due to the limited sample sizes and to be consistent with other comparisons we were unable to pursue alternate approaches.