

Supplemental data 1.

Sample name	Productive frequency	Amino acid	CDR3 β length	V gene	J gene
Ag85b_w4L1	20.2	CGARVTNSDYTF	12	TCRBV20-01	TCRBJ01-02
Ag85b_w4L2	17.5	CASSLEAETLYF	12	TCRBV16-01	TCRBJ02-03
Ag85b_w4L3	13.1	CASSLAANSDYTF	13	TCRBV03-01	TCRBJ01-02
Ag85b_w4L4	10.6	CASSLEFSNERLFF	42	TCRBV16-01	TCRBJ01-04
Ag85b_w4L5	17.9	CASS LEG DQYF	14	TCRBV16-01	TCRBJ02-05
Ag85b_10w1	7.3	CASS LEG YEQYF	12	TCRBV16-01	TCRBJ02-07
Ag85b_10w2	19.1	CASS LEG NSDYTF	13	TCRBV16-01	TCRBJ01-02
Ag85b_10w3	14.9	CASSLEFSNERLFF	14	TCRBV16-01	TCRBJ01-04
ESAT6_w4L1	80.7	CASSPTVNNQAPLF	14	TCRBV26-01	TCRBJ01-05
ESAT6_w4L2	70.5	CASSRT GG YAETLYF	15	TCRBV26-01	TCRBJ02-03
ESAT6_w4L3	24.5	CASSIAGTKGAEQFF	15	TCRBV19-01	TCRBJ02-01
ESAT6_w4L4	51.3	CASSLST GG PSDYTF	15	TCRBV26-01	TCRBJ01-02
ESAT6_w5L5	14.2	CASS GGG NTRYF	12	TCRBV13-01	TCRBJ02-04
ESAT6_10w1	52.3	CASSLWT GG KQNTLYF	16	TCRBV03-01	TCRBJ02-04
ESAT6_10w2	31.7	CASGVTT GG AEQFF	14	TCRBV13-02	TCRBJ02-01
ESAT6_10w3	43.6	CASKR GG SSAETLYF	15	TCRBV02-01	TCRBJ02-03
ESAT6_10w4	46.1	CASSPSNSGNTLYF	14	TCRBV19-01	TCRBJ01-03
ESAT6_10w5	57.3	CASSPHGQYSGNTLYF	16	TCRBV05-01	TCRBJ01-03

The most abundant TCR from each sample of tetramer⁺ Ag8b-specific CD4 T cells (n=8) and ESAT6-specific CD4 T cells (n=10) is listed here and was used to generate Fig.2. The CDR3 β amino sequence, the CDR3 β length, TRBV and TRBJ gene segment usage is shown. The “LEG” motif (which is detected in Ag8b-specific CD4 T cells) and “GG/TGG/GGG” motif (which is detected in ESAT6-specific CD4 T cells) is bolded. These motifs are described in the text and in Figure 2.