

CDR3 region variations of TRAV8 α and TRBV26 β chains:

TRBV26*01 CDR3 (Clones 1,2,4; 117T):	C	A	S	S	L	G	T	G	D	Y	E	Q
	TGT	GCC	AGC	AGT	CTC	GGG	ACA	GGG	GAC	TAT	GAA	CAG
TRBV26*01 CDR3 (Clone 3; 117L):	C	A	S	S	L	G	L	G	D	Y	E	Q
	TGT	GCC	AGC	AGT	CTG	GGA	CTG	GGG	GAC	TAT	GAA	CAG
TRAV8-1*01 CDR3 (Clone 1; GAT):	C	A	T	D	L	T	S	G	G	N	Y	K
	TGT	GCT	ACT	GAT	CTA	ACC	TCA	GGA	GGA	AAC	TAC	AAA
TRAV8-1*01 CDR3 (Clones 2,3,4; GAC):	C	A	T	D	L	T	S	G	G	N	Y	K
	TGT	GCT	ACT	GAC	CTC	ACC	TCA	GGA	GGA	AAC	TAC	AAA

Supplemental Figure 1: Genetic variation in TCR α and β chain CDR3 regions from CEA:691-699 reactive murine T cell populations. HLA-A2.1 transgenic mice were immunized with CEA:691-699. Splenocytes were subsequently stimulated with peptide in vitro, and reactive cultures were restimulated with peptide under limiting dilution conditions. From four tumor reactive murine T cell populations that were identified, TCR α and β chains were identified using a 5' RACE technique followed by DNA sequencing. Two α chains (TRAV7-D-3*01 TRAJ15*01 and TRAV8-1*01 TRAJ6*01) and two β chains (TRBV26*01 TRBD1*01 TRBJ2-7*01 TRBC2 and TRBV3*01 TRBD1*01 TRBJ1-5*01 TRBC1) were identified. Additional sequencing revealed the presence of 3 α chains and 3 β chains since two genetic variations were identified within the CDR3 regions of both the TRBV26 β chain and the TRAV8-1 α chain as shown.