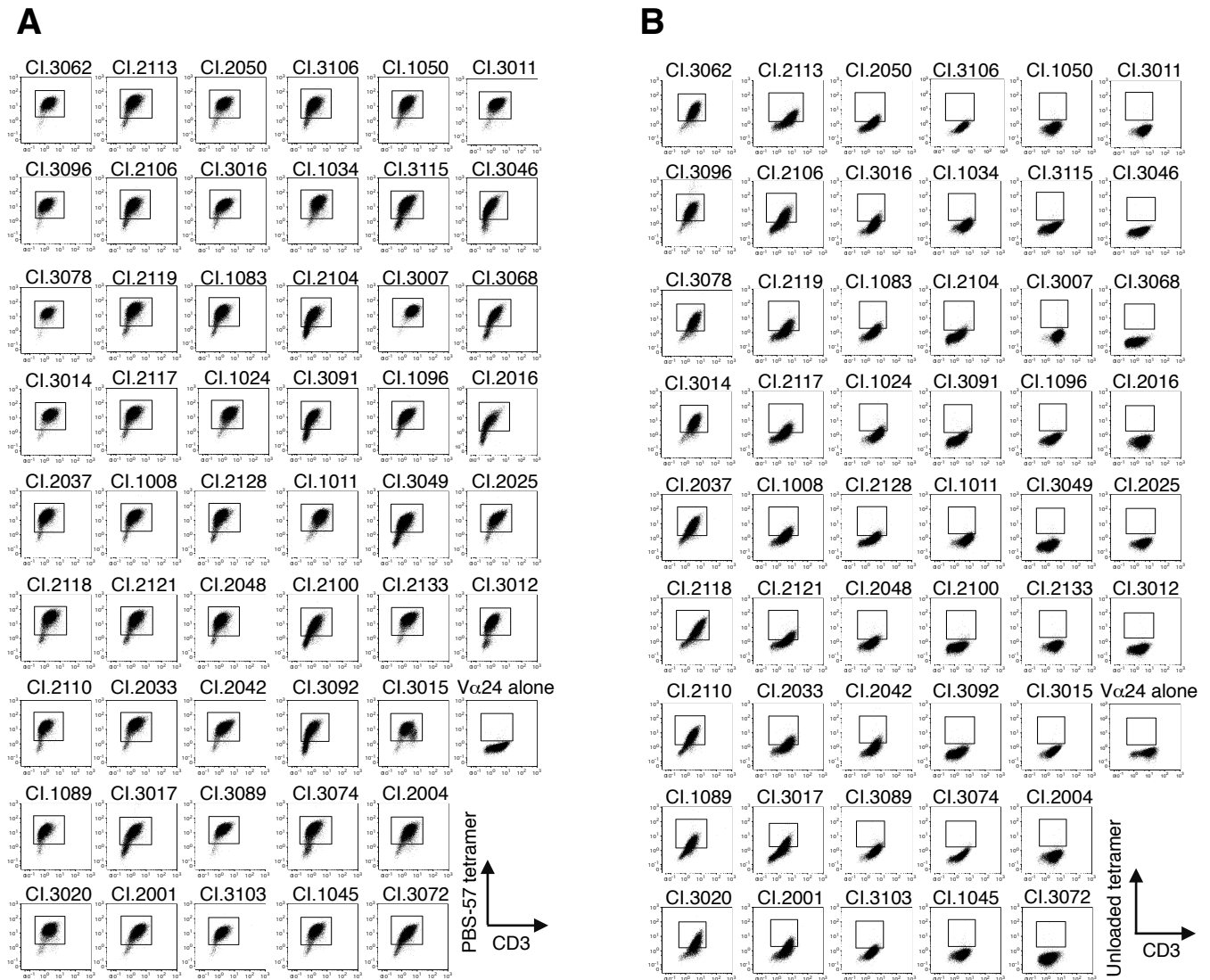


Supplementary Figure 1



Supplementary Figure 1. All cloned V β 11 TCR β chains are similarly stained with the PBS-57 tetramer, whereas the chains exhibit various intensities of self-ligand tetramer staining. (A) All SupT1 transfectants were stained with the PBS-57 tetramer (5 μ g/ml) and exhibited over 90% staining positivity. (B) All SupT1 transfectants were stained with unloaded tetramer (5 μ g/ml) and are shown according to the % staining values in descending order. Data for CI.1140, CI.3010, and CI.3041 are shown in Fig. 3A.

Supplementary Table 1

Previously reported iNKT TCR β chains highly reactive for self-ligands possess 2 of the 3 motifs.

Rossjohn J et al. Nat Rev Immunol., 2012^a

VD sequence	J sequence	≥ 2 D/E	J2-5	13 aa	Ligands
CASSEEGALKESVG	TQYF	Yes	Yes	No	LPC
CASSEFGGTERT	QETQYF	Yes	Yes	No	β -GalCer
CASSGLRDRGL	YEQYF	No	No	No	α -GalCer

Matulis G et al. PLoS Biol., 2010^b

VD sequence	J sequence	≥ 2 D/E	J2-5	13 aa	Avidity for β -GlcCer
CASSEFGGTERT	QETQYF	Yes	Yes	No	High
CASTGASGT	YEQYF	No	No	No	↓
CASSEPS	SGNTIYF	No	No	No	
CASSDQN	TEAFF	No	No	No	
CASSAMD	TEAFF	No	No	No	
CASARGVN	EQYF	No	No	No	
CASSGDRRQGAH	QPQHF	No	No	No	Low

LPC, β -galactosylceramide (β -GalCer), and β -GlcCer are endogenous antigens. ^areference (2), ^breference (40).