

**Table S1.** T cell lineage precursor analysis in early stages of T cell development isolated from CD45.1<sup>+</sup> newborn donor thymic lobes either 4 or 6 d after transplantation under the kidney capsule of CCR9<sup>EGFP</sup>/+//CD45.1/CD45.2 F1 recipient mice

Time of sorting after transplan- tation	Sorted cell type	Phenotype of developing DN3/DN4 thymocytes																	
		CD45.2 <sup>+</sup> CCR9 <sup>EGFP+</sup> (recipient derived)									CD45.2 <sup>-</sup> CCR9 <sup>EGFP-</sup> (donor derived)								
		Number of cells sorted per well																	
		100	50	10	5	1	100	50	10	5	1								
Day 4	EGFP-pos	nd	nd	nd	0/5	2/25	nd	nd	nd	1/5	7/25								
	ETP	nd	nd	nd	2/12	0/32	nd	nd	nd	9/12	13/32								
	DN1c	nd	nd	nd	nd	0/18	nd	nd	nd	nd	1/18								
	DN1d	nd	nd	0/24	0/33	0/52	nd	nd	0/24	0/33	0/52								
	DN1e	0/18	0/8	0/24	0/40	0/57	0/18	2/8	0/24	0/40	0/57								
	CLP-2	nd	nd	nd	0/5	0/48	nd	nd	nd	0/5	0/48								
	CTP	nd	nd	0/19	0/25	0/24	nd	nd	0/19	1/25	1/24								
		Number of cells sorted per well																	
	200	100	80	50	20	15	10	5	1	200	100	80	50	20	15	10	5	1	
Day 6	EGFP-pos	nd	nd	nd	nd	nd	nd	nd	11/22	11/57	nd	nd	nd	nd	nd	nd	nd	0/22	0/57
	ETP	nd	nd	nd	nd	nd	nd	16/33	4/34	0/40	nd	nd	nd	nd	nd	nd	9/33	6/34	2/40
	DN1c	nd	nd	nd	nd	0/1	nd	nd	0/8	0/65	nd	nd	nd	nd	1/1	nd	nd	0/8	2/65
	DN1d	nd	nd	nd	0/8	nd	nd	0/32	0/32	0/28	nd	nd	nd	1/8	nd	nd	1/32	0/32	0/28
	DN1e	0/9	0/9	nd	0/20	nd	nd	0/20	0/20	0/28	0/9	0/9	nd	0/20	nd	nd	0/20	0/20	0/28
	CLP-2	nd	nd	0/1	0/2	0/3	0/1	0/8	0/17	0/16	nd	nd	0/1	2/2	2/3	0/1	0/8	2/17	0/16
	CTP	0/6	0/6	nd	0/18	nd	nd	0/34	0/13	0/36	0/6	0/6	nd	0/18	nd	nd	0/34	0/13	0/36
nd, not done.																			