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DENV1/DENV3 or 4

GTS1SP

	TRBV	CDR3	TRBJ	Freq (%)
2-1629	9	CASSAYQGTGELF	2-2	51.35
	9	CASSLHGTSKLNQF	2-1	36.49
	12-3/4	CASSFGGASYEQY	2-7	5.41
	12-3/4	CASSFGNPEAF	1-1	5.41
	23-1	CASSQGFDRTHTEAFF	1-1	1.35

GTS3SP

	TRBV	CDR3	TRBJ	Freq (%)
2-1629	11-2	CASSRGAGEQETQY	2-5	35.53
	9	CASSVWGDPSEYEQY	2-7	28.95
	9	CASSVADAGAISSGANVLT	2-6	13.16
	11-2	CASSLGEGSSYNEQF	2-1	3.95
	9	CASSLFGDPGTDQY	2-3	3.95
	11-2	CASSLGQGGYEQY	2-7	3.95
	7-8	CASSLYPSGRGDEQF	2-1	2.63
	11-2	CASSFGQGDYGYT	1-2	2.63
	11-2	CASSLGPDYEQY	2-7	2.63
	4-2	CASSQWVGSTDTQY	2-3	1.32
	11-2	CASSFGVGTYEQY	2-7	1.32

	TRBV	CDR3	TRBJ	Freq (%)
2-0573	27	CATGTGGGGYT	1-2	39.76
	4-1	CASSPSWGRNQPH	1-5	12.05
	9	CASSPPLAGGPYNEQF	2-1	10.84
	4-1	CASSQGGYSNQPH	1-5	10.84
	20-1	CSARDPGEYQETQY	2-5	9.64
	15	CATSSPNSAGGYNEQF	2-1	4.82
	19	CASSIEDSYNEQF	2-1	4.82
	5-4	CASSFSGKGEQY	2-7	2.41
	4-1	CASSPSGGRNQPH	1-5	1.20
	7-8	CASSLGTGGYEQY	2-7	1.20
	18	CASSPLSYNEQF	2-1	1.20
	12-3/4	CASSLGTREAF	1-1	1.20

	TRBV	CDR3	TRBJ	Freq (%)
2-0573	11-2	CASSLFLMGLAGNEQF	2-1	54.35
	11-2	CASSLGQGYEQY	2-7	9.78
	11-2	CASSLYTGSYNEQF	2-1	6.52
	9	CASSVGGEQF	2-1	5.43
	6-1	CASSDGIQY	2-4	5.43
	7-9	CASSFVQFPYNEQF	2-1	4.35
	12-3/4	CASNIGVNEQF	2-1	4.35
	4-1	CASSPSWGRNQPH	1-5	3.26
	11-2	CASSLDPGGYEQY	2-7	2.17
	11-2	CASSLGPDYEQY	2-7	2.17
	11-2	CANSLFLMGLAGNEQF	2-1	1.09
	9	CASNGGSVWGRETQY	2-5	1.09

**Supplementary Figure 2** TRBV and TRBJ usage, CDR3 $\beta$  amino acid sequence, and clonotype frequency are shown for CD3<sup>+</sup>CD8<sup>+</sup>CD14<sup>-</sup>CD19<sup>-</sup> HLA-A\*11:01-GTS1 or HLA-A\*11:01-GTS3/4 tetramer<sup>+</sup> populations isolated from patients with primary DENV1 infection or sequential DENV1/DENV3/4 infections. Recurrent clonotypes are highlighted in color. SP, single positive; GTS3, GTS3/4 (blue type).