



# Repertoire Analysis Report (Human TRA)

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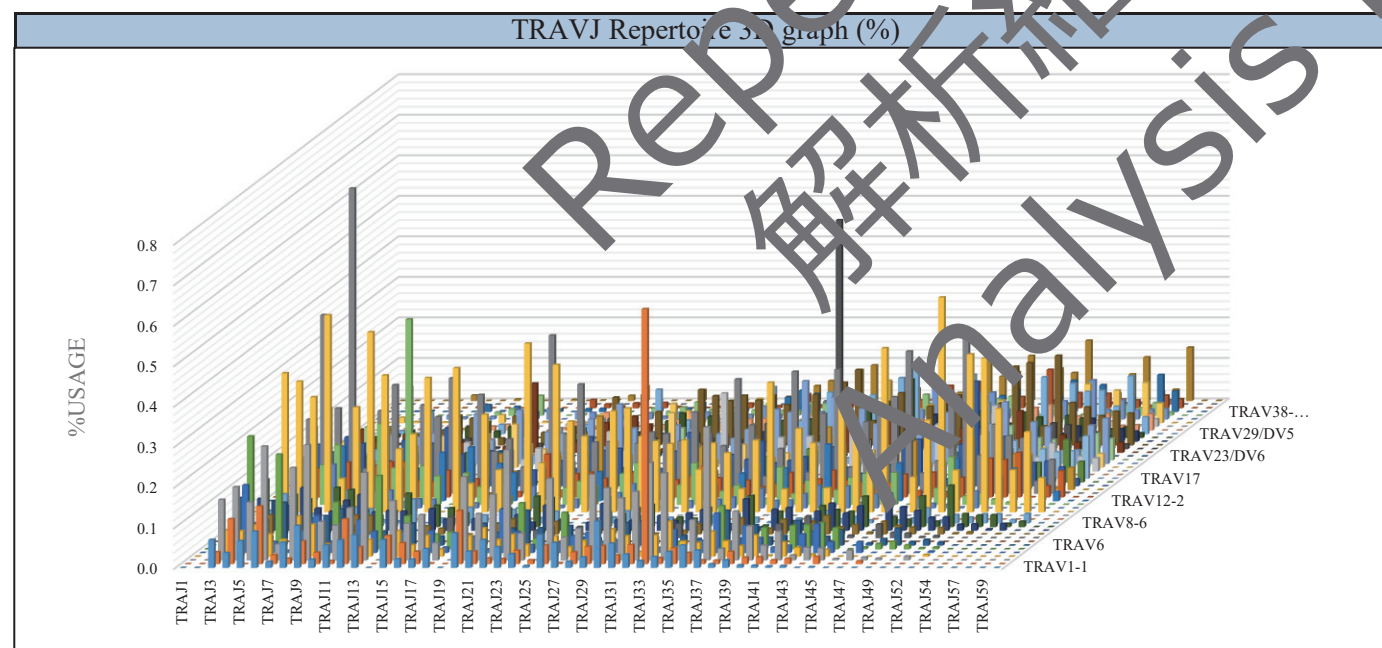
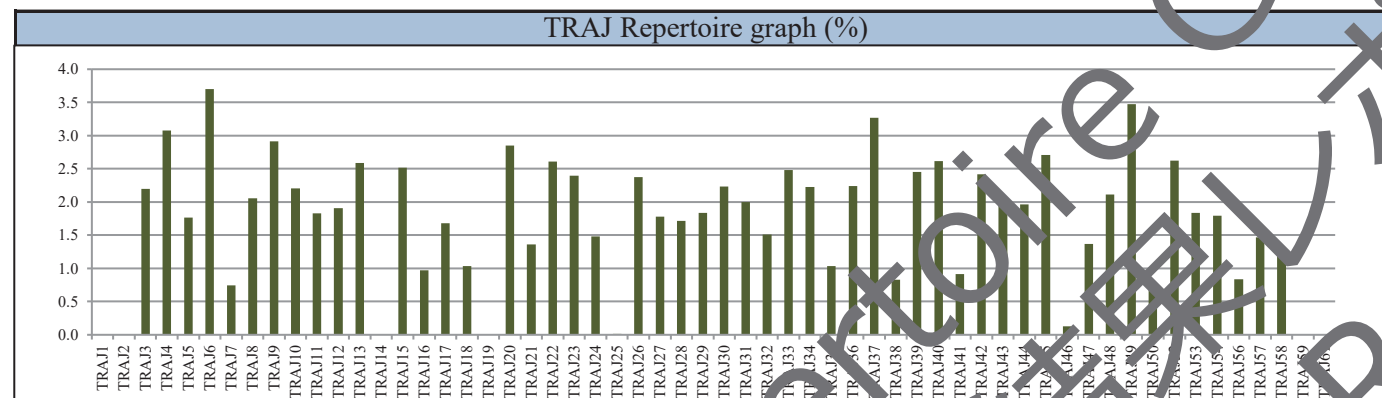
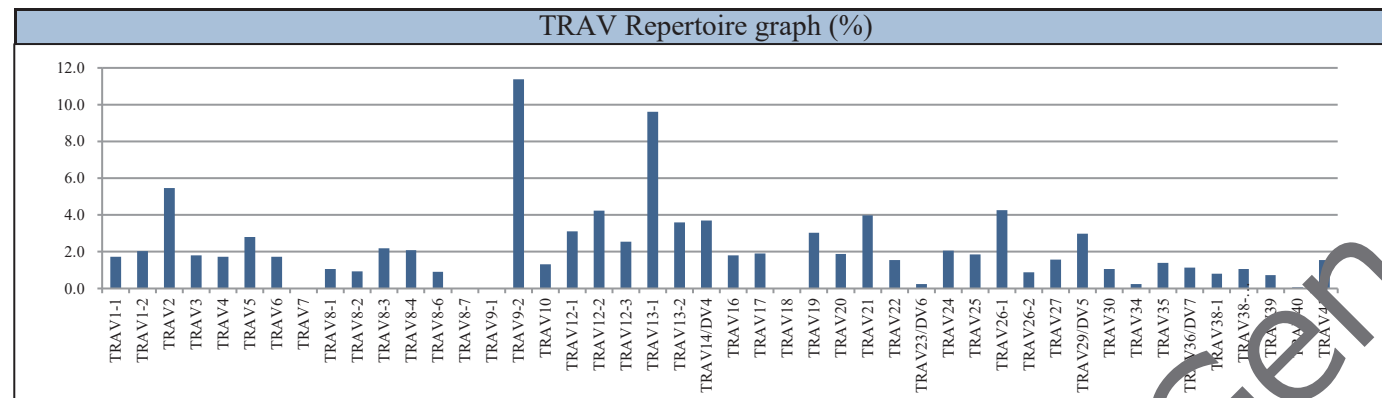
Date of report: 20170901

Project ID: 17-901-S

Sample ID: RGI01a

Sequencing Summary		
Total reads	: 139,575	reads
Assigned reads	: 124,177	reads
	: 89.0	%
In frame reads	: 111,699	reads
	: 90.0	%
Unique reads	: 30,613	reads
	: 27.4	%
In frame / Unique	: 3.65	

Diversity Index		
Shannon-Weaver index $H'$	: 9.80	
Healthy donor (PBMC n=18)	: 7.19-9.82 (mean: 8.91)	
Inv. Simpson's index $1/\lambda$	: 8300	
Healthy donor (PBMC n=18)	: 27-8104 (mean: 1231)	
Pielou's evenness	: 0.949	
Healthy donor (PBMC n=18)	: 0.772-0.951 (mean: 0.887)	
DE50	: 0.153	
Healthy donor (PBMC n=18)	: 0.051-0.214 (mean: 0.122)	



TRA Ranking Top1-50					
Rank	TRAV	TRAJ	CDR3	Reads	%Reads
1	TRAV25	TRAJ36	CPRKSQTGANNLFF	543	0.49
2	TRAV12-1	TRAJ11	CVVNEGYSYTLTF	414	0.37
3	TRAV1-2	TRAJ33	CAVYRDSNYQLIW	132	0.12
4	TRAV13-1	TRAJ33	CASRWDSNYQLIW	127	0.11
5	TRAV24	TRAJ15	CASVDQAGTALIF	102	0.09
6	TRAV20	TRAJ26	CAVQADWHGYGQNFVF	101	0.09
7	TRAV1-2	TRAJ33	CAATDSNYQLIW	96	0.09
8	TRAV1-2	TRAJ12	CAVVDSSYKLIFF	76	0.07
9	TRAV9-2	TRAJ30	CALSDDSEGATNKLIF	74	0.07
10	TRAV12-2	TRAJ5	CALDGGRRALTF	70	0.06
11	TRAV14/DV4	TRAJ24	CAMREGTDSWGKQFQ	69	0.06
12	TRAV19	TRAJ30	CALISMNRDDKIIF	67	0.06
13	TRAV5	TRAJ13	CAESKETGGYQKVTF	65	0.06
14	TRAV1-2	TRAJ33	CAVMDSNYQLIW	61	0.05
15	TRAV1-2	TRAJ12	CAVLDSNYQLIW	58	0.05
16	TRAV9-2	TRAJ6	CARASGGSYIPTF	55	0.05
17	TRAV2	TRAJ30	CAVEGLGGGYQKVTF	51	0.05
18	TRAV13-1	TRAJ6	CAASKGGSYIPTF	51	0.05
19	TRAV9-2	TRAJ20	CALNDYKLSF	49	0.04
20	TRAV30	TRAJ36	CGTERETGANNLFF	49	0.04
21	TRAV38-1	TRAJ12	CAFVSDSSYKLIFF	48	0.04
22	TRAV19	TRAJ12	CALSGVDSSYKLIFF	47	0.04
23	TRAV1-2	TRAJ30	CAEKAGNRDDKIIF	47	0.04
24	TRAV19	TRAJ32	CALSDDSEGATNKLIF	45	0.04
25	TRAV1-1	TRAJ49	CAASNTGNQFYF	45	0.04
26	TRAV1-2	TRAJ23	CAVGNQGGKLIFF	44	0.04
27	TRAV9-2	TRAJ20	CALRPNDYKLSF	42	0.04
28	TRAV24	TRAJ33	CAFLDSNYQLIW	42	0.04
29	TRAV16	TRAJ6	CALSAGPGGSYIPTF	42	0.04
30	TRAV13-1	TRAJ37	CAASKIWNTGKLIFF	42	0.04
31	TRAV10	TRAJ18	CVVSDRGSTLGRLYF	42	0.04
32	TRAV24	TRAJ15	CALLAGTALIF	41	0.04
33	TRAV20	TRAJ13	CAVYSGGYQKVTF	40	0.04
34	TRAV2	TRAJ29	CAVPSGNTPLVF	40	0.04
35	TRAV17	TRAJ46	CATDQDKLTF	40	0.04
36	TRAV9-2	TRAJ4	CALRSSGGYNKLIFF	39	0.03
37	TRAV20	TRAJ16	CAVQVGGQKLLF	39	0.03
38	TRAV1-2	TRAJ33	CAAMDSNYQLIW	39	0.03
39	TRAV21	TRAJ35	CAVTRKIGFGNVLHC	38	0.03
40	TRAV12-3	TRAJ58	CAMASGSRLLTF	38	0.03
41	TRAV12-2	TRAJ26	CAAPGYGQNFVF	38	0.03
42	TRAV1-2	TRAJ33	CAVKDSNYQLIW	38	0.03
43	TRAV5	TRAJ4	CAESPLFSGGYNKLIFF	37	0.03
44	TRAV13-1	TRAJ6	CAARAGGSYIPTF	37	0.03
45	TRAV12-2	TRAJ42	CAVQGSQGNLIFF	37	0.03
46	TRAV9-2	TRAJ20	CALS DKVYKLSF	36	0.03
47	TRAV9-2	TRAJ10	CALTTGGGNKLIFF	36	0.03
48	TRAV21	TRAJ18	CAVSRGSTLGRLYF	36	0.03
49	TRAV19	TRAJ30	CALSEERDDKIIF	36	0.03
50	TRAV14/DV4	TRAJ45	CAMREGGGADGLTF	36	0.03