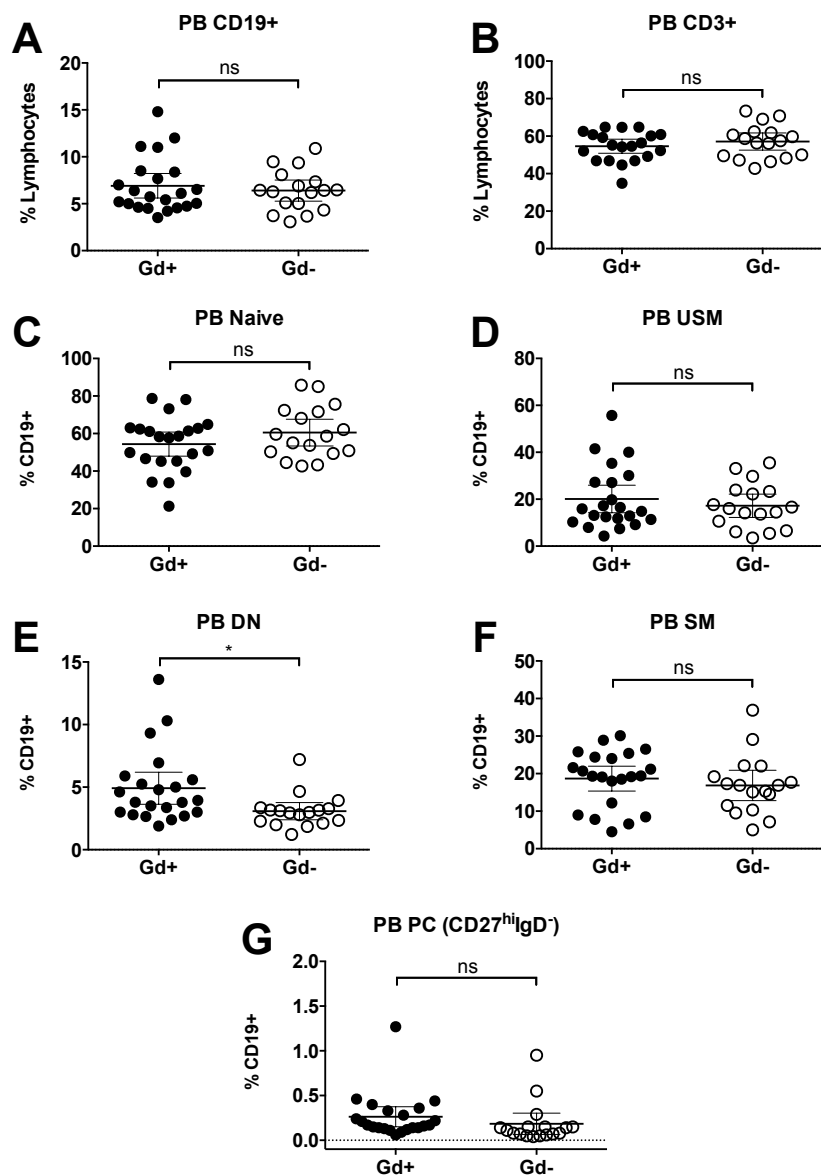
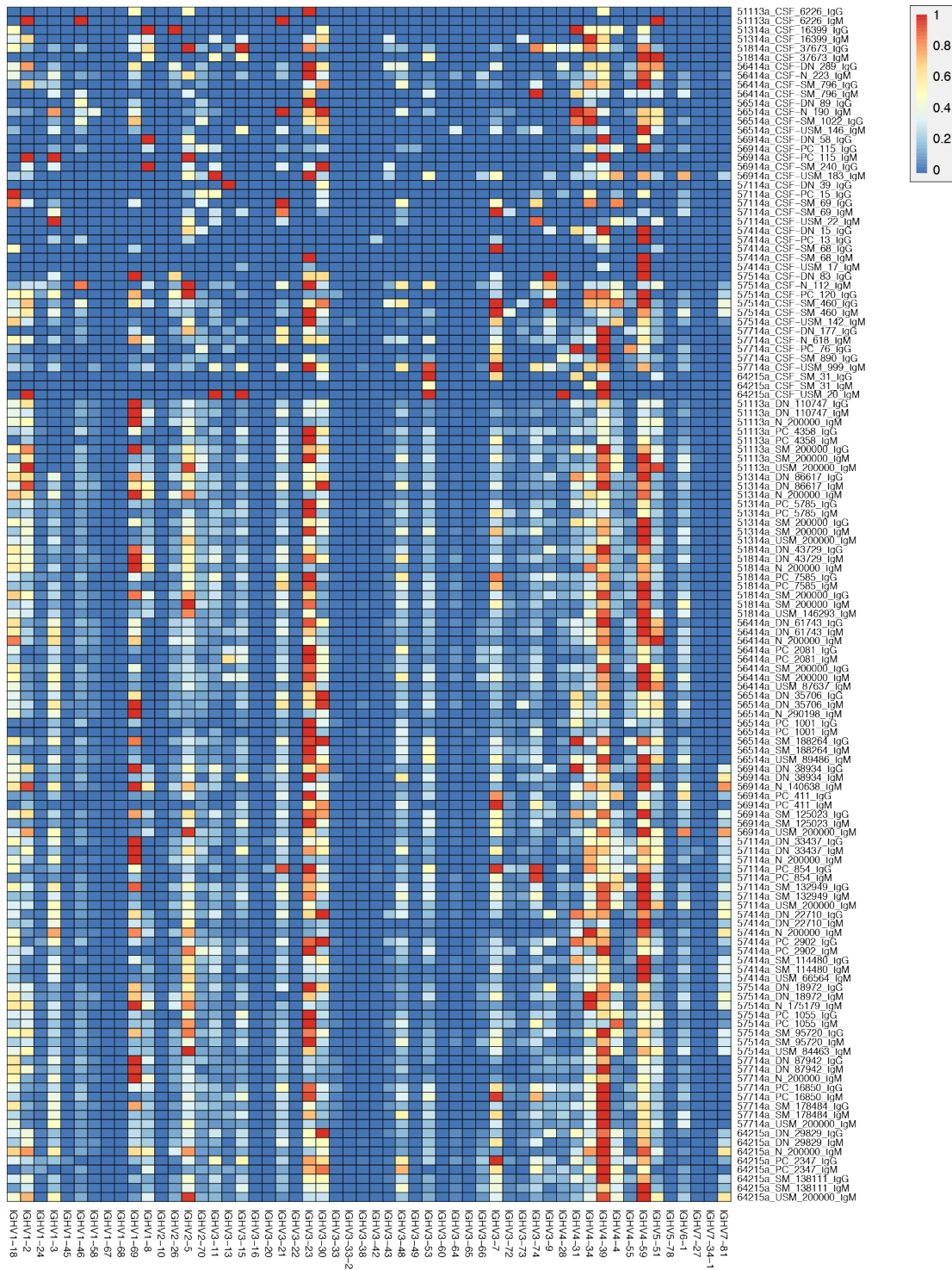


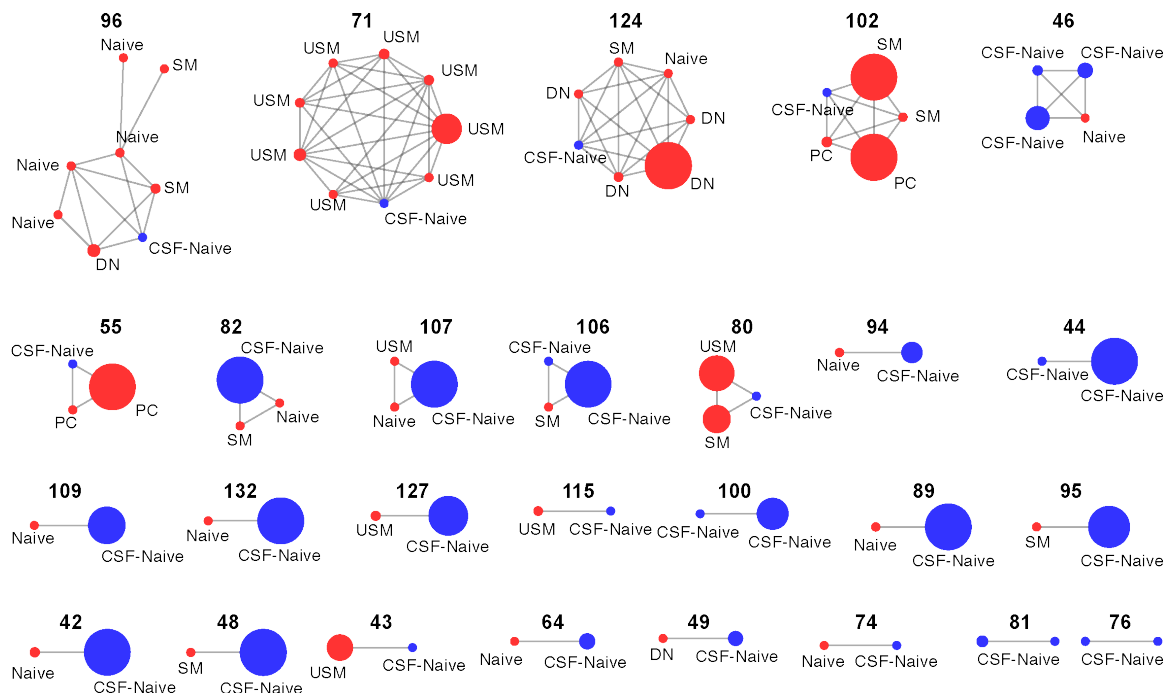
## SUPPLEMENTAL FIGURES



**Supplemental Figure S1.** CD3+ T cells, CD19+ B cells and B cell subsets in PB in patients with (Gd+) or without (Gd-) brain lesions on MRI. **A** and **B** are shown as a percentage of total lymphocytes; **C** to **G** represent percentages of the total CD19+ B cell population. Refer to **Supplemental Table S1** for numbers of patients represented in these graphs. Comparisons were made using unpaired or paired t-tests.; ns = not significant, \*P<0.05.



**Supplemental Figure S2. IGHV usage profiles per patients and subset/sample.** IGHV usage was normalized to the IGHV germline segment with the highest representation (=1, red). IGHV usage profiles are ordered by patient and B cell subset as indicated. Sample names contain Patient ID, B cell subset, number of cells analyzed, and Ig isotype separated by “\_”. CSF B cells subsets are indicated by “CSF” before the subset designation.



**Supplemental Figure S3: Clonal relationships between CSF naïve B cells and other CSF or PB B cell subsets in patient 56414.** Each cluster is displayed as a network consisting of nodes and connecting edges. Within a cluster the same IGHV and IGHJ germline segments are used. Each node represents a unique H-CDR3, connected nodes represent related Ig-VH sequences based on the applied distance metric (see Methods). Numbers above designate the cluster # as listed in **Supplemental Table S4**. Blue nodes are CSF B cell subsets; red nodes are PB B cell subsets. Please refer to **Table S4** for information on IGHV, IGHJ and CDR3 sequences represented in each cluster.



Supplemental Table S2

Patient ID	Gd+?	Compartment	Subset	Isotype	Sorted Cell Count	IonXpress BC	Sample Name	Sequence Count	CDR3 Count	Cluster Count	Comment
51113a	no	CSF	Not Sorted	IgG	6,226	11	51113_a_CSf_6226_IGG_IGVH	29,439	5	5	
51113a	no	CSF	Not Sorted	IgM	6,226	16	51113_a_CSf_6226_IGM_IGVH	199	4	4	
51113a	no	PB	DN	IgG	110,747	1	51113_a_DN_110747_IGG_IGVH	168,740	10,753	10,215	
51113a	no	PB	DN	IgM	110,747	6	51113_a_DN_110747_IGM_IGVH	12,220	442	434	
51113a	no	PB	Naive	IgM	200,000	7	51113_a_Naive_200000_IGM_IGVH	33,965	11,224	10,895	
51113a	no	PB	PC	IgG	4,358	5	51113_a_PC_4358_IGG_IGVH	194,750	408	388	
51113a	no	PB	PC	IgM	4,358	10	51113_a_PC_4358_IGM_IGVH	57,581	205	199	
51113a	no	PB	SM	IgG	200,000	4	51113_a_SM_200000_IGG_IGVH	168,014	12,384	10,908	
51113a	no	PB	SM	IgM	200,000	9	51113_a_SM_200000_IGM_IGVH	16,685	644	585	
51113a	no	PB	USM	IgM	200,000	8	51113_a_USM_200000_IGM_IGVH	61,303	9,307	8,075	
51314a	yes	CSF	Not Sorted	IgG	16,399	11	51314_a_CSf_16399_IGG_IGVH	15,001	12	12	
51314a	yes	CSF	Not Sorted	IgM	16,399	16	51314_a_CSf_16399_IGM_IGVH	321	18	16	
51314a	yes	PB	DN	IgG	86,617	1	51314_a_DN_86617_IGG_IGVH	125,051	11,912	10,376	
51314a	yes	PB	DN	IgM	86,617	6	51314_a_DN_86617_IGM_IGVH	23,557	1,793	1,628	
51314a	yes	PB	Naive	IgM	200,000	7	51314_a_Naive_200000_IGM_IGVH	25,075	11,523	11,017	
51314a	yes	PB	PC	IgG	5,785	5	51314_a_PC_5785_IGG_IGVH	165,815	768	645	
51314a	yes	PB	PC	IgM	5,785	10	51314_a_PC_5785_IGM_IGVH	44,492	506	426	
51314a	yes	PB	SM	IgG	200,000	4	51314_a_SM_200000_IGG_IGVH	126,415	10,523	8,550	
51314a	yes	PB	SM	IgM	200,000	9	51314_a_SM_200000_IGM_IGVH	48,503	2,945	2,391	
51314a	yes	PB	USM	IgM	200,000	8	51314_a_USM_200000_IGM_IGVH	39,674	8,665	7,075	
51814a	yes	CSF	Not Sorted	IgG	37,673	11	51814_a_CSf_37673_IGG_IGVH	45,162	64	54	
51814a	yes	CSF	Not Sorted	IgM	37,673	16	51814_a_CSf_37673_IGM_IGVH	310	8	7	
51814a	yes	PB	DN	IgG	43,729	1	51814_a_DN_43729_IGG_IGVH	244,134	7,218	6,073	
51814a	yes	PB	DN	IgM	43,729	6	51814_a_DN_43729_IGM_IGVH	95,187	824	721	
51814a	yes	PB	Naive	IgM	200,000	7	51814_a_Naive_200000_IGM_IGVH	31,922	14,448	13,737	
51814a	yes	PB	PC	IgG	7,585	5	51814_a_PC_7585_IGG_IGVH	149,672	1,374	1,102	
51814a	yes	PB	PC	IgM	7,585	10	51814_a_PC_7585_IGM_IGVH	28,301	263	222	
51814a	yes	PB	SM	IgG	200,000	4	51814_a_SM_200000_IGG_IGVH	155,514	11,005	9,296	
51814a	yes	PB	SM	IgM	200,000	9	51814_a_SM_200000_IGM_IGVH	37,724	1,606	1,387	
51814a	yes	PB	USM	IgM	146,293	8	51814_a_USM_146293_IGM_IGVH	47,180	12,353	10,700	
56414a	yes	CSF	CSF-DN	IgG	289	11	56414_a_CSf-DN_289_IGG_IGVH	9,992	45	39	
56414a	yes	CSF	CSF-DN	IgM	289	16	56414_a_CSf-DN_289_IGM_IGVH				no PCR product
56414a	yes	CSF	CSF-Naive	IgM	223	17	56414_a_CSf-N_223_IGM_IGVH	20,784	117	106	
56414a	yes	CSF	CSF-SM	IgG	796	14	56414_a_CSf-SM_796_IGG_IGVH	13,622	60	46	
56414a	yes	CSF	CSF-SM	IgM	796	19	56414_a_CSf-SM_796_IGM_IGVH	827	17	17	
56414a	yes	PB	DN	IgG	61,743	1	56414_a_DN_61743_IGG_IGVH	267,539	9,603	8,404	
56414a	yes	PB	DN	IgM	61,743	6	56414_a_DN_61743_IGM_IGVH	19,880	444	414	
56414a	yes	PB	Naive	IgM	200,000	7	56414_a_Naive_200000_IGM_IGVH	113,452	23,663	21,683	
56414a	yes	PB	PC	IgG	2,081	5	56414_a_PC_2081_IGG_IGVH	274,661	423	352	
56414a	yes	PB	PC	IgM	2,081	10	56414_a_PC_2081_IGM_IGVH	122,230	316	264	
56414a	yes	PB	SM	IgG	200,000	4	56414_a_SM_200000_IGG_IGVH	286,422	12,117	9,459	
56414a	yes	PB	SM	IgM	200,000	9	56414_a_SM_200000_IGM_IGVH	167,170	2,431	2,017	
56414a	yes	PB	USM	IgM	87,637	8	56414_a_USM_87637_IGM_IGVH	120,860	11,071	9,403	

56514a	yes	CSF	CSF-DN	IgG	89	11	56514_a_CSF-DN_89_IGG_IGVH	12,323	9	8	
56514a	yes	CSF	CSF-DN	IgM	89	16	56514_a_CSF-DN_89_IGM_IGVH				no PCR product
56514a	yes	CSF	CSF-Naive	IgM	190	17	56514_a_CSF-N_190_IGM_IGVH	13,464	98	76	
56514a	yes	CSF	CSF-SM	IgG	1,022	14	56514_a_CSF-SM_1022_IGG_IGVH	18,009	45	35	
56514a	yes	CSF	CSF-SM	IgM	1,022	19	56514_a_CSF-SM_1022_IGM_IGVH				no PCR product
56514a	yes	CSF	CSF-USM	IgM	146	18	56514_a_CSF-USM_146_IGM_IGVH	8,347	35	32	
56514a	yes	PB	DN	IgG	35,706	1	56514_a_DN_35706_IGG_IGVH	468,572	6,484	5,695	
56514a	yes	PB	DN	IgM	35,706	6	56514_a_DN_35706_IGM_IGVH	60,064	440	414	
56514a	yes	PB	Naive	IgM	290,198	7	56514_a_Naive_290198_IGM_IGVH	97,141	28,145	25,591	
56514a	yes	PB	PC	IgG	1,001	5	56514_a_PC_1001_IGG_IGVH	207,193	195	143	
56514a	yes	PB	PC	IgM	1,001	10	56514_a_PC_1001_IGM_IGVH	41,942	83	64	
56514a	yes	PB	SM	IgG	188,264	4	56514_a_SM_188264_IGG_IGVH	248,277	11,067	8,918	
56514a	yes	PB	SM	IgM	188,264	9	56514_a_SM_188264_IGM_IGVH	78,580	1,624	1,266	
56514a	yes	PB	USM	IgM	89,500	8	56514_a_USM_89486_IGM_IGVH	125,008	10,769	8,313	
56914a	yes	CSF	CSF-DN	IgG	58	11	56914_a_CSF-DN_58_IGG_IGVH	9,062	6	5	
56914a	yes	CSF	CSF-DN	IgM	58	16	56914_a_CSF-DN_58_IGM_IGVH				no PCR product
56914a	yes	CSF	CSF-PC	IgG	115	12	56914_a_CSF-PC_115_IGG_IGVH	38,529	36	31	
56914a	yes	CSF	CSF-PC	IgM	115	17	56914_a_CSF-PC_115_IGM_IGVH	70	4	4	
56914a	yes	CSF	CSF-SM	IgG	240	14	56914_a_CSF-SM_240_IGG_IGVH	10,991	15	14	
56914a	yes	CSF	CSF-SM	IgM	240	19	56914_a_CSF-SM_240_IGM_IGVH				no PCR product
56914a	yes	CSF	CSF-USM	IgM	183	18	56914_a_CSF-USM_183_IGM_IGVH	9,922	36	33	
56914a	yes	PB	DN	IgG	38,934	1	56914_a_DN_38934_IGG_IGVH	117,008	3,759	3,041	
56914a	yes	PB	DN	IgM	38,934	6	56914_a_DN_38934_IGM_IGVH	2,317	106	99	
56914a	yes	PB	Naive	IgM	140,638	7	56914_a_Naive_140638_IGM_IGVH	25,680	7,644	7,153	
56914a	yes	PB	PC	IgG	411	5	56914_a_PC_411_IGG_IGVH	186,951	86	74	
56914a	yes	PB	PC	IgM	411	10	56914_a_PC_411_IGM_IGVH	59,757	65	51	
56914a	yes	PB	SM	IgG	125,023	4	56914_a_SM_125023_IGG_IGVH	136,854	5,775	4,359	
56914a	yes	PB	SM	IgM	125,023	9	56914_a_SM_125023_IGM_IGVH	35,914	785	653	
56914a	yes	PB	USM	IgM	200,000	8	56914_a_USM_200000_IGM_IGVH	40,230	6,076	4,879	
57114a	yes	CSF	CSF-DN	IgG	39	11	57114_a_CSF-DN_39_IGG_IGVH	2,330	3	2	
57114a	yes	CSF	CSF-DN	IgM	39	16	57114_a_CSF-DN_39_IGM_IGVH		0		no Seq output
57114a	yes	CSF	CSF-PC	IgG	15	15	57114_a_CSF-PC_15_IGG_IGVH	162,519	25	17	
57114a	yes	CSF	CSF-PC	IgM	15	20	57114_a_CSF-PC_15_IGM_IGVH				no PCR product
57114a	yes	CSF	CSF-SM	IgG	69	14	57114_a_CSF-SM_69_IGG_IGVH	38,278	41	23	
57114a	yes	CSF	CSF-SM	IgM	69	19	57114_a_CSF-SM_69_IGM_IGVH	25,028	30	14	
57114a	yes	CSF	CSF-USM	IgM	22	18	57114_a_CSF-USM_22_IGM_IGVH	40,091	45	18	
57114a	yes	PB	DN	IgG	33,437	1	57114_a_DN_33437_IGG_IGVH	365,122	16,183	7,027	
57114a	yes	PB	DN	IgM	33,437	6	57114_a_DN_33437_IGM_IGVH	9,253	361	199	
57114a	yes	PB	Naive	IgM	200,000	7	57114_a_Naive_200000_IGM_IGVH	111,126	42,823	26,105	
57114a	yes	PB	PC	IgG	854	5	57114_a_PC_854_IGG_IGVH	812,305	550	223	
57114a	yes	PB	PC	IgM	854	10	57114_a_PC_854_IGM_IGVH	457,057	439	175	
57114a	yes	PB	SM	IgG	132,949	4	57114_a_SM_132949_IGG_IGVH	311,871	32,579	14,784	
57114a	yes	PB	SM	IgM	132,949	9	57114_a_SM_132949_IGM_IGVH	55,624	4,064	1,813	
57114a	yes	PB	USM	IgM	200,000	8	57114_a_USM_200000_IGM_IGVH	177,752	35,336	17,618	

57414a	yes	CSF	CSF-DN	IgG	15	11	57414_a_CSF-DN_15_IgG_IGVH	25,921	13	13	
57414a	yes	CSF	CSF-DN	IgM	15	16	57414_a_CSF-DN_15_IgM_IGVH		0		no Seq output
57414a	yes	CSF	CSF-PC	IgG	13	15	57414_a_CSF-PC_13_IgG_IGVH	94,329	12	12	
57414a	yes	CSF	CSF-PC	IgM	13	20	57414_a_CSF-PC_13_IgM_IGVH		0		no Seq output
57414a	yes	CSF	CSF-SM	IgG	68	14	57414_a_CSF-SM_68_IgG_IGVH	41,002	9	8	
57414a	yes	CSF	CSF-SM	IgM	68	19	57414_a_CSF-SM_68_IgM_IGVH	49	2	2	
57414a	yes	CSF	CSF-USM	IgM	17	18	57414_a_CSF-USM_17_IgM_IGVH	37,726	10	8	
57414a	yes	PB	DN	IgG	22,710	1	57414_a_DN_22710_IgG_IGVH	316,567	3,031	2,816	
57414a	yes	PB	DN	IgM	22,710	6	57414_a_DN_22710_IgM_IGVH	7,289	111	108	
57414a	yes	PB	Naive	IgM	200,000	7	57414_a_Naive_200000_IgM_IGVH	72,032	11,984	11,230	
57414a	yes	PB	PC	IgG	2,902	5	57414_a_PC_2902_IgG_IGVH	447,199	737	629	
57414a	yes	PB	PC	IgM	2,902	10	57414_a_PC_2902_IgM_IGVH	19,714	116	102	
57414a	yes	PB	SM	IgG	114,480	4	57414_a_SM_114480_IgG_IGVH	320,904	7,893	6,851	
57414a	yes	PB	SM	IgM	114,480	9	57414_a_SM_114480_IgM_IGVH	30,831	378	339	
57414a	yes	PB	USM	IgM	66,564	8	57414_a_USM_66564_IgM_IGVH	91,225	5,532	4,721	
57514a	yes	CSF	CSF-DN	IgG	83	11	57514_a_CSF-DN_83_IgG_IGVH	12,207	17	17	
57514a	yes	CSF	CSF-DN	IgM	83	16	57514_a_CSF-DN_83_IgM_IGVH				no PCR product
57514a	yes	CSF	CSF-Naive	IgM	112	17	57514_a_CSF-Naive_112_IgM_IGVH	20,603	70	64	
57514a	yes	CSF	CSF-PC	IgG	120	15	57514_a_CSF-PC_120_IgG_IGVH	86,860	72	63	
57514a	yes	CSF	CSF-PC	IgM	120	20	57514_a_CSF-PC_120_IgM_IGVH				no PCR product
57514a	yes	CSF	CSF-SM	IgG	460	14	57514_a_CSF-SM_460_IgG_IGVH	23,018	86	76	
57514a	yes	CSF	CSF-SM	IgM	460	19	57514_a_CSF-SM_460_IgM_IGVH	5,269	41	40	
57514a	yes	CSF	CSF-USM	IgM	142	18	57514_a_CSF-USM_142_IgM_IGVH	24,981	90	77	
57514a	yes	PB	DN	IgG	18,972	1	57514_a_DN_18972_IgG_IGVH	234,237	3,501	3,083	
57514a	yes	PB	DN	IgM	18,972	6	57514_a_DN_18972_IgM_IGVH	12,379	171	166	
57514a	yes	PB	Naive	IgM	175,179	7	57514_a_Naive_175179_IgM_IGVH	41,366	15,564	14,609	
57514a	yes	PB	PC	IgG	1,055	5	57514_a_PC_1055_IgG_IGVH	297,734	300	253	
57514a	yes	PB	PC	IgM	1,055	10	57514_a_PC_1055_IgM_IGVH	81,405	172	150	
57514a	yes	PB	SM	IgG	95,720	4	57514_a_SM_95720_IgG_IGVH	179,831	10,694	8,947	
57514a	yes	PB	SM	IgM	95,720	9	57514_a_SM_95720_IgM_IGVH	103,148	889	777	
57514a	yes	PB	USM	IgM	84,463	8	57514_a_USM_84463_IgM_IGVH	105,211	13,176	10,700	
57714a	yes	CSF	CSF-DN	IgG	177	11	57714_a_CSF-DN_177_IgG_IGVH	38,173	40	34	
57714a	yes	CSF	CSF-DN	IgM	177	16	57714_a_CSF-DN_177_IgM_IGVH				no PCR product
57714a	yes	CSF	CSF-Naive	IgM	618	17	57714_a_CSF-Naive_618_IgM_IGVH	19,829	161	148	
57714a	yes	CSF	CSF-PC	IgG	76	15	57714_a_CSF-PC_76_IgG_IGVH	18,207	26	21	
57714a	yes	CSF	CSF-PC	IgM	76	20	57714_a_CSF-PC_76_IgM_IGVH				no PCR product
57714a	yes	CSF	CSF-SM	IgG	890	14	57714_a_CSF-SM_890_IgG_IGVH	47,695	61	56	
57714a	yes	CSF	CSF-SM	IgM	890	19	57714_a_CSF-SM_890_IgM_IGVH				no PCR product
57714a	yes	CSF	CSF-USM	IgM	999	18	57714_a_CSF-USM_999_IgM_IGVH	14,283	161	149	
57714a	yes	PB	DN	IgG	87,942	1	57714_a_DN_87942_IgG_IGVH	128,218	6,558	5,922	
57714a	yes	PB	DN	IgM	87,942	6	57714_a_DN_87942_IgM_IGVH	7,232	189	178	
57714a	yes	PB	Naive	IgM	200,000	7	57714_a_Naive_200000_IgM_IGVH	29,454	10,115	9,628	
57714a	yes	PB	PC	IgG	16,850	5	57714_a_PC_16850_IgG_IGVH	224,678	760	675	
57714a	yes	PB	PC	IgM	16,850	10	57714_a_PC_16850_IgM_IGVH	99,562	697	615	

57714a	yes	PB	SM	IgG	178,484	4	57714_a_SM_178484_IGG_IGVH	153,349	5,962	5,277	
57714a	yes	PB	SM	IgM	178,484	9	57714_a_SM_178484_IGM_IGVH	102,854	1,021	914	
57714a	yes	PB	USM	IgM	200,000	8	57714_a_USM_200000_IGM_IGVH	59,457	7,713	6,456	
64215a	no	CSF	CSF-DN	IgG	14	11	64215_a_CSF_DN_14_BCR_IgG				no PCR product
64215a	no	CSF	CSF-DN	IgM	14	16	64215_a_CSF_DN_14_BCR_IgM				no PCR product
64215a	no	CSF	CSF-Naive	IgM	16	17	64215_a_CSF_Naive_16_BCR_IgM				no PCR product
64215a	no	CSF	CSF-SM	IgG	31	14	64215_a_CSF_SM_31_BCR_IgG	25,489	10	10	
64215a	no	CSF	CSF-SM	IgM	31	19	64215_a_CSF_SM_31_BCR_IgM	12,045	4	4	
64215a	no	CSF	CSF-USM	IgM	20	18	64215_a_CSF_USM_20_BCR_IgM	27,026	6	6	
64215a	no	PB	DN	IgG	29,829	1	64215_a_PB_DN_29829_BCR_IgG	273,609	4,964	4,494	
64215a	no	PB	DN	IgM	29,829	6	64215_a_PB_DN_29829_BCR_IgM	11,364	346	324	
64215a	no	PB	Naive	IgM	200,000	7	64215_a_PB_Naive_200000_BCR_IgM	56,401	17,713	16,612	
64215a	no	PB	PC	IgG	2,347	5	64215_a_PB_PC_2347_BCR_IgG	285,993	449	393	
64215a	no	PB	PC	IgM	2,347	10	64215_a_PB_PC_2347_BCR_IgM	17,928	66	64	
64215a	no	PB	SM	IgG	138,111	4	64215_a_PB_SM_138111_BCR_IgG	244,223	11,822	9,863	
64215a	no	PB	SM	IgM	138,111	9	64215_a_PB_SM_138111_BCR_IgM	23,580	832	750	
64215a	no	PB	USM	IgM	200,000	8	64215_a_PB_USM_200000_BCR_IgM	62,145	12,668	10,756	



Patient ID	Gd+/-	Comp 1	Subset 1	Isotype 1	Comp 2	Subset 2	Isotype 2	Frequency	CSR in CSF
51113	Gd-	CSF	CSF	IgG	PB	DN	IgG	1	
51113	Gd-	CSF	CSF	IgG	PB	PC	IgG	1	
51113	Gd-	CSF	CSF	IgG	PB	SM	IgG	1	
51113	Gd-	CSF	CSF	IgM	PB	DN	IgG	1	
51113	Gd-	PB	DN	IgG	PB	DN	IgM	8	
51113	Gd-	PB	DN	IgG	PB	N	IgM	80	
51113	Gd-	PB	DN	IgG	PB	PC	IgM	3	
51113	Gd-	PB	DN	IgG	PB	SM	IgM	7	
51113	Gd-	PB	DN	IgG	PB	USM	IgM	84	
51113	Gd-	PB	DN	IgG	PB	PC	IgG	13	
51113	Gd-	PB	DN	IgG	PB	SM	IgG	248	
51113	Gd-	PB	DN	IgM	PB	N	IgM	16	
51113	Gd-	PB	DN	IgM	PB	PC	IgM	3	
51113	Gd-	PB	DN	IgM	PB	SM	IgM	10	
51113	Gd-	PB	DN	IgM	PB	USM	IgM	18	
51113	Gd-	PB	DN	IgM	PB	SM	IgG	6	
51113	Gd-	PB	N	IgM	PB	PC	IgM	3	
51113	Gd-	PB	N	IgM	PB	SM	IgM	8	
51113	Gd-	PB	N	IgM	PB	USM	IgM	176	
51113	Gd-	PB	N	IgM	PB	PC	IgG	3	
51113	Gd-	PB	N	IgM	PB	SM	IgG	51	
51113	Gd-	PB	PC	IgG	PB	PC	IgM	28	
51113	Gd-	PB	PC	IgG	PB	SM	IgM	8	
51113	Gd-	PB	PC	IgG	PB	USM	IgM	17	
51113	Gd-	PB	PC	IgG	PB	SM	IgG	100	
51113	Gd-	PB	PC	IgM	PB	SM	IgM	26	
51113	Gd-	PB	PC	IgM	PB	USM	IgM	36	
51113	Gd-	PB	PC	IgM	PB	SM	IgG	20	
51113	Gd-	PB	SM	IgG	PB	SM	IgM	54	
51113	Gd-	PB	SM	IgG	PB	USM	IgM	242	
51113	Gd-	PB	SM	IgM	PB	USM	IgM	137	
51314	Gd+	CSF	CSF	IgG	CSF	CSF	IgM	1	Yes
51314	Gd+	CSF	CSF	IgG	PB	USM	IgM	1	
51314	Gd+	CSF	CSF	IgG	PB	DN	IgG	1	
51314	Gd+	CSF	CSF	IgG	PB	PC	IgG	2	
51314	Gd+	CSF	CSF	IgG	PB	SM	IgG	4	
51314	Gd+	CSF	CSF	IgM	PB	DN	IgM	1	
51314	Gd+	CSF	CSF	IgM	PB	PC	IgM	1	
51314	Gd+	CSF	CSF	IgM	PB	SM	IgM	2	
51314	Gd+	CSF	CSF	IgM	PB	USM	IgM	8	
51314	Gd+	CSF	CSF	IgM	PB	SM	IgG	1	

51314	Gd+	PB	DN	IgG	PB	DN	IgM	57	
51314	Gd+	PB	DN	IgG	PB	N	IgM	116	
51314	Gd+	PB	DN	IgG	PB	PC	IgM	8	
51314	Gd+	PB	DN	IgG	PB	SM	IgM	40	
51314	Gd+	PB	DN	IgG	PB	USM	IgM	75	
51314	Gd+	PB	DN	IgG	PB	PC	IgG	48	
51314	Gd+	PB	DN	IgG	PB	SM	IgG	465	
51314	Gd+	PB	DN	IgM	PB	N	IgM	47	
51314	Gd+	PB	DN	IgM	PB	PC	IgM	21	
51314	Gd+	PB	DN	IgM	PB	SM	IgM	133	
51314	Gd+	PB	DN	IgM	PB	USM	IgM	148	
51314	Gd+	PB	DN	IgM	PB	PC	IgG	8	
51314	Gd+	PB	DN	IgM	PB	SM	IgG	37	
51314	Gd+	PB	N	IgM	PB	PC	IgM	16	
51314	Gd+	PB	N	IgM	PB	SM	IgM	40	
51314	Gd+	PB	N	IgM	PB	USM	IgM	232	
51314	Gd+	PB	N	IgM	PB	PC	IgG	12	
51314	Gd+	PB	N	IgM	PB	SM	IgG	54	
51314	Gd+	PB	PC	IgG	PB	PC	IgM	68	
51314	Gd+	PB	PC	IgG	PB	SM	IgM	32	
51314	Gd+	PB	PC	IgG	PB	USM	IgM	30	
51314	Gd+	PB	PC	IgG	PB	SM	IgG	133	
51314	Gd+	PB	PC	IgM	PB	SM	IgM	94	
51314	Gd+	PB	PC	IgM	PB	USM	IgM	96	
51314	Gd+	PB	PC	IgM	PB	SM	IgG	29	
51314	Gd+	PB	SM	IgG	PB	SM	IgM	225	
51314	Gd+	PB	SM	IgG	PB	USM	IgM	244	
51314	Gd+	PB	SM	IgM	PB	USM	IgM	486	
51814	Gd+	CSF	CSF	IgG	CSF	CSF	IgM	1	Yes
51814	Gd+	CSF	CSF	IgG	PB	DN	IgM	1	
51814	Gd+	CSF	CSF	IgG	PB	N	IgM	2	
51814	Gd+	CSF	CSF	IgG	PB	SM	IgM	1	
51814	Gd+	CSF	CSF	IgG	PB	USM	IgM	2	
51814	Gd+	CSF	CSF	IgG	PB	DN	IgG	6	
51814	Gd+	CSF	CSF	IgG	PB	PC	IgG	7	
51814	Gd+	CSF	CSF	IgG	PB	SM	IgG	15	
51814	Gd+	CSF	CSF	IgM	PB	USM	IgM	1	
51814	Gd+	PB	DN	IgG	PB	DN	IgM	21	
51814	Gd+	PB	DN	IgG	PB	N	IgM	41	
51814	Gd+	PB	DN	IgG	PB	PC	IgM	2	
51814	Gd+	PB	DN	IgG	PB	SM	IgM	12	
51814	Gd+	PB	DN	IgG	PB	USM	IgM	46	

51814	Gd+	PB	DN	IgG	PB	PC	IgG	59	
51814	Gd+	PB	DN	IgG	PB	SM	IgG	257	
51814	Gd+	PB	DN	IgM	PB	N	IgM	23	
51814	Gd+	PB	DN	IgM	PB	PC	IgM	4	
51814	Gd+	PB	DN	IgM	PB	SM	IgM	26	
51814	Gd+	PB	DN	IgM	PB	USM	IgM	35	
51814	Gd+	PB	DN	IgM	PB	PC	IgG	5	
51814	Gd+	PB	DN	IgM	PB	SM	IgG	20	
51814	Gd+	PB	N	IgM	PB	PC	IgM	3	
51814	Gd+	PB	N	IgM	PB	SM	IgM	26	
51814	Gd+	PB	N	IgM	PB	USM	IgM	188	
51814	Gd+	PB	N	IgM	PB	PC	IgG	12	
51814	Gd+	PB	N	IgM	PB	SM	IgG	45	
51814	Gd+	PB	PC	IgG	PB	PC	IgM	42	
51814	Gd+	PB	PC	IgG	PB	SM	IgM	34	
51814	Gd+	PB	PC	IgG	PB	USM	IgM	28	
51814	Gd+	PB	PC	IgG	PB	SM	IgG	330	
51814	Gd+	PB	PC	IgM	PB	SM	IgM	47	
51814	Gd+	PB	PC	IgM	PB	USM	IgM	45	
51814	Gd+	PB	PC	IgM	PB	SM	IgG	33	
51814	Gd+	PB	SM	IgG	PB	SM	IgM	130	
51814	Gd+	PB	SM	IgG	PB	USM	IgM	179	
51814	Gd+	PB	SM	IgM	PB	USM	IgM	244	
56414	Gd+	CSF	DN	IgG	CSF	SM	IgG	6	
56414	Gd+	CSF	DN	IgG	PB	SM	IgM	2	
56414	Gd+	CSF	DN	IgG	PB	DN	IgG	12	
56414	Gd+	CSF	DN	IgG	PB	PC	IgG	2	
56414	Gd+	CSF	DN	IgG	PB	SM	IgG	13	
56414	Gd+	CSF	N	IgM	PB	DN	IgM	1	
56414	Gd+	CSF	N	IgM	PB	N	IgM	12	
56414	Gd+	CSF	N	IgM	PB	PC	IgM	2	
56414	Gd+	CSF	N	IgM	PB	SM	IgM	7	
56414	Gd+	CSF	N	IgM	PB	USM	IgM	6	
56414	Gd+	CSF	N	IgM	PB	DN	IgG	3	
56414	Gd+	CSF	N	IgM	PB	PC	IgG	2	
56414	Gd+	CSF	N	IgM	PB	SM	IgG	3	
56414	Gd+	CSF	SM	IgG	CSF	SM	IgM	2	Yes
56414	Gd+	CSF	SM	IgG	PB	N	IgM	1	
56414	Gd+	CSF	SM	IgG	PB	PC	IgM	1	
56414	Gd+	CSF	SM	IgG	PB	SM	IgM	6	
56414	Gd+	CSF	SM	IgG	PB	USM	IgM	2	
56414	Gd+	CSF	SM	IgG	PB	DN	IgG	14	

56414	Gd+	CSF	SM	IgG	PB	PC	IgG	7
56414	Gd+	CSF	SM	IgG	PB	SM	IgG	26
56414	Gd+	CSF	SM	IgM	PB	N	IgM	1
56414	Gd+	CSF	SM	IgM	PB	PC	IgM	1
56414	Gd+	CSF	SM	IgM	PB	SM	IgM	3
56414	Gd+	CSF	SM	IgM	PB	USM	IgM	5
56414	Gd+	CSF	SM	IgM	PB	DN	IgG	3
56414	Gd+	CSF	SM	IgM	PB	PC	IgG	1
56414	Gd+	CSF	SM	IgM	PB	SM	IgG	4
56414	Gd+	PB	DN	IgG	PB	DN	IgM	100
56414	Gd+	PB	DN	IgG	PB	N	IgM	124
56414	Gd+	PB	DN	IgG	PB	PC	IgM	15
56414	Gd+	PB	DN	IgG	PB	SM	IgM	58
56414	Gd+	PB	DN	IgG	PB	USM	IgM	83
56414	Gd+	PB	DN	IgG	PB	PC	IgG	33
56414	Gd+	PB	DN	IgG	PB	SM	IgG	342
56414	Gd+	PB	DN	IgM	PB	N	IgM	61
56414	Gd+	PB	DN	IgM	PB	PC	IgM	13
56414	Gd+	PB	DN	IgM	PB	SM	IgM	38
56414	Gd+	PB	DN	IgM	PB	USM	IgM	35
56414	Gd+	PB	DN	IgM	PB	PC	IgG	12
56414	Gd+	PB	DN	IgM	PB	SM	IgG	21
56414	Gd+	PB	N	IgM	PB	PC	IgM	25
56414	Gd+	PB	N	IgM	PB	SM	IgM	87
56414	Gd+	PB	N	IgM	PB	USM	IgM	300
56414	Gd+	PB	N	IgM	PB	PC	IgG	18
56414	Gd+	PB	N	IgM	PB	SM	IgG	102
56414	Gd+	PB	PC	IgG	PB	PC	IgM	128
56414	Gd+	PB	PC	IgG	PB	SM	IgM	75
56414	Gd+	PB	PC	IgG	PB	USM	IgM	44
56414	Gd+	PB	PC	IgG	PB	SM	IgG	114
56414	Gd+	PB	PC	IgM	PB	SM	IgM	99
56414	Gd+	PB	PC	IgM	PB	USM	IgM	65
56414	Gd+	PB	PC	IgM	PB	SM	IgG	57
56414	Gd+	PB	SM	IgG	PB	SM	IgM	515
56414	Gd+	PB	SM	IgG	PB	USM	IgM	238
56414	Gd+	PB	SM	IgM	PB	USM	IgM	332
56514	Gd+	CSF	DN	IgG	PB	PC	IgM	1
56514	Gd+	CSF	DN	IgG	PB	USM	IgM	1
56514	Gd+	CSF	DN	IgG	PB	DN	IgG	2
56514	Gd+	CSF	DN	IgG	PB	PC	IgG	3
56514	Gd+	CSF	DN	IgG	PB	SM	IgG	5

56514	Gd+	CSF	DN	IgG	CSF	SM	IgG	3
56514	Gd+	CSF	N	IgM	PB	PC	IgM	1
56514	Gd+	CSF	N	IgM	PB	SM	IgM	1
56514	Gd+	CSF	N	IgM	PB	USM	IgM	3
56514	Gd+	CSF	N	IgM	PB	PC	IgG	1
56514	Gd+	CSF	N	IgM	PB	N	IgM	2
56514	Gd+	CSF	SM	IgG	PB	DN	IgG	4
56514	Gd+	CSF	SM	IgG	PB	PC	IgG	2
56514	Gd+	CSF	SM	IgG	PB	SM	IgG	16
56514	Gd+	CSF	USM	IgM	PB	N	IgM	5
56514	Gd+	CSF	USM	IgM	PB	PC	IgM	1
56514	Gd+	CSF	USM	IgM	PB	SM	IgM	2
56514	Gd+	CSF	USM	IgM	PB	USM	IgM	14
56514	Gd+	CSF	USM	IgM	PB	SM	IgG	2
56514	Gd+	PB	DN	IgG	PB	DN	IgM	126
56514	Gd+	PB	DN	IgG	PB	N	IgM	63
56514	Gd+	PB	DN	IgG	PB	PC	IgM	1
56514	Gd+	PB	DN	IgG	PB	SM	IgM	13
56514	Gd+	PB	DN	IgG	PB	USM	IgM	41
56514	Gd+	PB	DN	IgG	PB	PC	IgG	22
56514	Gd+	PB	DN	IgG	PB	SM	IgG	189
56514	Gd+	PB	DN	IgM	PB	N	IgM	65
56514	Gd+	PB	DN	IgM	PB	SM	IgM	20
56514	Gd+	PB	DN	IgM	PB	USM	IgM	21
56514	Gd+	PB	DN	IgM	PB	PC	IgG	1
56514	Gd+	PB	DN	IgM	PB	SM	IgG	11
56514	Gd+	PB	N	IgM	PB	PC	IgM	4
56514	Gd+	PB	N	IgM	PB	SM	IgM	28
56514	Gd+	PB	N	IgM	PB	USM	IgM	256
56514	Gd+	PB	N	IgM	PB	PC	IgG	4
56514	Gd+	PB	N	IgM	PB	SM	IgG	104
56514	Gd+	PB	PC	IgG	PB	PC	IgM	21
56514	Gd+	PB	PC	IgG	PB	SM	IgM	8
56514	Gd+	PB	PC	IgG	PB	USM	IgM	9
56514	Gd+	PB	PC	IgG	PB	SM	IgG	38
56514	Gd+	PB	PC	IgM	PB	SM	IgM	16
56514	Gd+	PB	PC	IgM	PB	USM	IgM	18
56514	Gd+	PB	PC	IgM	PB	SM	IgG	10
56514	Gd+	PB	SM	IgG	PB	SM	IgM	173
56514	Gd+	PB	SM	IgG	PB	USM	IgM	193
56514	Gd+	PB	SM	IgM	PB	USM	IgM	268
56914	Gd+	CSF	DN	IgG	PB	DN	IgG	1

56914	Gd+	CSF	DN	IgG	PB	SM	IgG	2	
56914	Gd+	CSF	DN	IgG	CSF	SM	IgG	1	
56914	Gd+	CSF	PC	IgG	PB	PC	IgM	1	
56914	Gd+	CSF	PC	IgG	CSF	PC	IgM	2	Yes
56914	Gd+	CSF	PC	IgG	CSF	SM	IgG	3	
56914	Gd+	CSF	PC	IgG	PB	USM	IgM	2	
56914	Gd+	CSF	PC	IgG	PB	DN	IgG	6	
56914	Gd+	CSF	PC	IgG	PB	PC	IgG	2	
56914	Gd+	CSF	PC	IgG	PB	SM	IgG	9	
56914	Gd+	CSF	PC	IgG	PB	N	IgM	1	
56914	Gd+	CSF	PC	IgM	PB	USM	IgM	1	
56914	Gd+	CSF	PC	IgM	CSF	SM	IgG	2	Yes
56914	Gd+	CSF	PC	IgM	PB	DN	IgG	1	
56914	Gd+	CSF	PC	IgM	PB	SM	IgG	2	
56914	Gd+	CSF	PC	IgM	PB	N	IgM	1	
56914	Gd+	CSF	SM	IgG	PB	N	IgM	1	
56914	Gd+	CSF	SM	IgG	PB	USM	IgM	1	
56914	Gd+	CSF	SM	IgG	PB	DN	IgG	1	
56914	Gd+	CSF	SM	IgG	PB	SM	IgG	3	
56914	Gd+	CSF	USM	IgM	PB	N	IgM	1	
56914	Gd+	CSF	USM	IgM	PB	USM	IgM	7	
56914	Gd+	PB	DN	IgG	PB	DN	IgM	7	
56914	Gd+	PB	DN	IgG	PB	N	IgM	31	
56914	Gd+	PB	DN	IgG	PB	PC	IgM	1	
56914	Gd+	PB	DN	IgG	PB	SM	IgM	7	
56914	Gd+	PB	DN	IgG	PB	USM	IgM	27	
56914	Gd+	PB	DN	IgG	PB	PC	IgG	5	
56914	Gd+	PB	DN	IgG	PB	SM	IgG	224	
56914	Gd+	PB	DN	IgM	PB	N	IgM	12	
56914	Gd+	PB	DN	IgM	PB	PC	IgM	1	
56914	Gd+	PB	DN	IgM	PB	SM	IgM	6	
56914	Gd+	PB	DN	IgM	PB	USM	IgM	7	
56914	Gd+	PB	DN	IgM	PB	PC	IgG	1	
56914	Gd+	PB	DN	IgM	PB	SM	IgG	3	
56914	Gd+	PB	N	IgM	PB	PC	IgM	4	
56914	Gd+	PB	N	IgM	PB	SM	IgM	14	
56914	Gd+	PB	N	IgM	PB	USM	IgM	194	
56914	Gd+	PB	N	IgM	PB	PC	IgG	2	
56914	Gd+	PB	N	IgM	PB	SM	IgG	41	
56914	Gd+	PB	PC	IgG	PB	PC	IgM	18	
56914	Gd+	PB	PC	IgG	PB	SM	IgM	9	
56914	Gd+	PB	PC	IgG	PB	USM	IgM	6	

56914	Gd+	PB	PC	IgG	PB	SM	IgG	27	
56914	Gd+	PB	PC	IgM	PB	SM	IgM	15	
56914	Gd+	PB	PC	IgM	PB	USM	IgM	10	
56914	Gd+	PB	PC	IgM	PB	SM	IgG	8	
56914	Gd+	PB	SM	IgG	PB	SM	IgM	76	
56914	Gd+	PB	SM	IgG	PB	USM	IgM	121	
56914	Gd+	PB	SM	IgM	PB	USM	IgM	112	
57114	Gd+	CSF	PC	IgG	PB	PC	IgM	1	
57114	Gd+	CSF	PC	IgG	PB	DN	IgG	3	
57114	Gd+	CSF	PC	IgG	PB	PC	IgG	5	
57114	Gd+	CSF	PC	IgG	PB	SM	IgG	8	
57114	Gd+	CSF	PC	IgG	CSF	SM	IgG	2	
57114	Gd+	CSF	SM	IgG	CSF	SM	IgM	4	Yes
57114	Gd+	CSF	SM	IgG	PB	N	IgM	2	
57114	Gd+	CSF	SM	IgG	PB	DN	IgM	1	
57114	Gd+	CSF	SM	IgG	PB	SM	IgM	2	
57114	Gd+	CSF	SM	IgG	PB	USM	IgM	2	
57114	Gd+	CSF	SM	IgG	PB	DN	IgG	1	
57114	Gd+	CSF	SM	IgG	PB	PC	IgG	2	
57114	Gd+	CSF	SM	IgG	PB	SM	IgG	7	
57114	Gd+	CSF	SM	IgM	CSF	USM	IgM	2	
57114	Gd+	CSF	SM	IgM	PB	N	IgM	2	
57114	Gd+	CSF	SM	IgM	PB	DN	IgM	1	
57114	Gd+	CSF	SM	IgM	PB	PC	IgM	1	
57114	Gd+	CSF	SM	IgM	PB	SM	IgM	3	
57114	Gd+	CSF	SM	IgM	PB	USM	IgM	5	
57114	Gd+	CSF	SM	IgM	PB	SM	IgG	3	
57114	Gd+	CSF	USM	IgM	PB	N	IgM	2	
57114	Gd+	CSF	USM	IgM	PB	PC	IgM	1	
57114	Gd+	CSF	USM	IgM	PB	SM	IgM	7	
57114	Gd+	CSF	USM	IgM	PB	USM	IgM	8	
57114	Gd+	CSF	USM	IgM	PB	DN	IgG	1	
57114	Gd+	CSF	USM	IgM	PB	SM	IgG	4	
57114	Gd+	PB	DN	IgG	PB	DN	IgM	1	
57114	Gd+	PB	DN	IgG	PB	N	IgM	104	
57114	Gd+	PB	DN	IgG	PB	PC	IgM	8	
57114	Gd+	PB	DN	IgG	PB	SM	IgM	10	
57114	Gd+	PB	DN	IgG	PB	USM	IgM	72	
57114	Gd+	PB	DN	IgG	PB	PC	IgG	24	
57114	Gd+	PB	DN	IgG	PB	SM	IgG	280	
57114	Gd+	PB	DN	IgM	PB	N	IgM	48	
57114	Gd+	PB	DN	IgM	PB	PC	IgM	7	

57114	Gd+	PB	DN	IgM	PB	SM	IgM	17
57114	Gd+	PB	DN	IgM	PB	USM	IgM	33
57114	Gd+	PB	DN	IgM	PB	PC	IgG	6
57114	Gd+	PB	DN	IgM	PB	SM	IgG	5
57114	Gd+	PB	N	IgM	PB	PC	IgM	21
57114	Gd+	PB	N	IgM	PB	SM	IgM	75
57114	Gd+	PB	N	IgM	PB	USM	IgM	733
57114	Gd+	PB	N	IgM	PB	PC	IgG	9
57114	Gd+	PB	N	IgM	PB	SM	IgG	170
57114	Gd+	PB	PC	IgG	PB	PC	IgM	45
57114	Gd+	PB	PC	IgG	PB	SM	IgM	18
57114	Gd+	PB	PC	IgG	PB	USM	IgM	24
57114	Gd+	PB	PC	IgG	PB	SM	IgG	71
57114	Gd+	PB	PC	IgM	PB	SM	IgM	36
57114	Gd+	PB	PC	IgM	PB	USM	IgM	56
57114	Gd+	PB	PC	IgM	PB	SM	IgG	22
57114	Gd+	PB	SM	IgG	PB	SM	IgM	153
57114	Gd+	PB	SM	IgG	PB	USM	IgM	456
57114	Gd+	PB	SM	IgM	PB	USM	IgM	486
57414	Gd+	CSF	DN	IgG	PB	PC	IgG	1
57414	Gd+	CSF	DN	IgG	PB	SM	IgG	4
57414	Gd+	CSF	PC	IgG	PB	DN	IgG	1
57414	Gd+	CSF	PC	IgG	PB	PC	IgG	2
57414	Gd+	CSF	PC	IgG	PB	SM	IgG	4
57414	Gd+	CSF	PC	IgG	CSF	SM	IgG	1
57414	Gd+	CSF	SM	IgG	PB	PC	IgG	1
57414	Gd+	CSF	SM	IgG	PB	SM	IgG	2
57414	Gd+	CSF	SM	IgM	CSF	USM	IgM	1
57414	Gd+	CSF	SM	IgM	PB	SM	IgM	1
57414	Gd+	CSF	USM	IgM	PB	DN	IgM	1
57414	Gd+	CSF	USM	IgM	PB	PC	IgM	1
57414	Gd+	CSF	USM	IgM	PB	SM	IgM	1
57414	Gd+	CSF	USM	IgM	PB	USM	IgM	2
57414	Gd+	CSF	USM	IgM	PB	PC	IgG	1
57414	Gd+	PB	DN	IgG	PB	DN	IgM	2
57414	Gd+	PB	DN	IgG	PB	N	IgM	27
57414	Gd+	PB	DN	IgG	PB	PC	IgM	1
57414	Gd+	PB	DN	IgG	PB	USM	IgM	19
57414	Gd+	PB	DN	IgG	PB	PC	IgG	9
57414	Gd+	PB	DN	IgG	PB	SM	IgG	58
57414	Gd+	PB	DN	IgM	PB	N	IgM	26
57414	Gd+	PB	DN	IgM	PB	SM	IgM	3



57414	Gd+	PB	DN	IgM	PB	USM	IgM	9	
57414	Gd+	PB	DN	IgM	PB	SM	IgG	4	
57414	Gd+	PB	N	IgM	PB	PC	IgM	4	
57414	Gd+	PB	N	IgM	PB	SM	IgM	6	
57414	Gd+	PB	N	IgM	PB	USM	IgM	103	
57414	Gd+	PB	N	IgM	PB	PC	IgG	6	
57414	Gd+	PB	N	IgM	PB	SM	IgG	41	
57414	Gd+	PB	PC	IgG	PB	PC	IgM	7	
57414	Gd+	PB	PC	IgG	PB	SM	IgM	6	
57414	Gd+	PB	PC	IgG	PB	USM	IgM	12	
57414	Gd+	PB	PC	IgG	PB	SM	IgG	105	
57414	Gd+	PB	PC	IgM	PB	SM	IgM	10	
57414	Gd+	PB	PC	IgM	PB	USM	IgM	20	
57414	Gd+	PB	PC	IgM	PB	SM	IgG	7	
57414	Gd+	PB	SM	IgG	PB	SM	IgM	20	
57414	Gd+	PB	SM	IgG	PB	USM	IgM	106	
57414	Gd+	PB	SM	IgM	PB	USM	IgM	65	
57514	Gd+	CSF	DN	IgG	PB	SM	IgM	1	
57514	Gd+	CSF	DN	IgG	PB	DN	IgG	1	
57514	Gd+	CSF	DN	IgG	PB	PC	IgG	1	
57514	Gd+	CSF	DN	IgG	PB	SM	IgG	5	
57514	Gd+	CSF	DN	IgG	CSF	SM	IgM	1	Yes
57514	Gd+	CSF	DN	IgG	CSF	PC	IgG	5	
57514	Gd+	CSF	DN	IgG	CSF	SM	IgG	1	
57514	Gd+	CSF	N	IgM	PB	PC	IgM	2	
57514	Gd+	CSF	N	IgM	PB	USM	IgM	6	
57514	Gd+	CSF	N	IgM	PB	PC	IgG	1	
57514	Gd+	CSF	N	IgM	PB	N	IgM	4	
57514	Gd+	CSF	PC	IgG	PB	DN	IgM	2	
57514	Gd+	CSF	PC	IgG	PB	PC	IgM	4	
57514	Gd+	CSF	PC	IgG	PB	SM	IgM	2	
57514	Gd+	CSF	PC	IgG	PB	USM	IgM	3	
57514	Gd+	CSF	PC	IgG	PB	DN	IgG	16	
57514	Gd+	CSF	PC	IgG	PB	PC	IgG	14	
57514	Gd+	CSF	PC	IgG	PB	SM	IgG	26	
57514	Gd+	CSF	PC	IgG	CSF	SM	IgM	1	Yes
57514	Gd+	CSF	PC	IgG	CSF	SM	IgG	6	
57514	Gd+	CSF	PC	IgG	PB	N	IgM	2	
57514	Gd+	CSF	SM	IgG	PB	PC	IgM	1	
57514	Gd+	CSF	SM	IgG	PB	SM	IgM	2	
57514	Gd+	CSF	SM	IgG	PB	USM	IgM	3	
57514	Gd+	CSF	SM	IgG	PB	DN	IgG	4	

57514	Gd+	CSF	SM	IgG	PB	PC	IgG	8	
57514	Gd+	CSF	SM	IgG	CSF	SM	IgM	3	Yes
57514	Gd+	CSF	SM	IgG	PB	SM	IgG	22	
57514	Gd+	CSF	SM	IgM	PB	SM	IgM	3	
57514	Gd+	CSF	SM	IgM	PB	USM	IgM	18	
57514	Gd+	CSF	SM	IgM	PB	PC	IgG	1	
57514	Gd+	CSF	SM	IgM	PB	SM	IgG	5	
57514	Gd+	CSF	SM	IgM	CSF	USM	IgM	10	
57514	Gd+	CSF	USM	IgM	PB	N	IgM	1	
57514	Gd+	CSF	USM	IgM	PB	PC	IgM	1	
57514	Gd+	CSF	USM	IgM	PB	SM	IgM	7	
57514	Gd+	CSF	USM	IgM	PB	USM	IgM	28	
57514	Gd+	CSF	USM	IgM	PB	DN	IgG	1	
57514	Gd+	CSF	USM	IgM	PB	SM	IgG	5	
57514	Gd+	PB	DN	IgG	PB	DN	IgM	36	
57514	Gd+	PB	DN	IgG	PB	N	IgM	28	
57514	Gd+	PB	DN	IgG	PB	PC	IgM	6	
57514	Gd+	PB	DN	IgG	PB	SM	IgM	9	
57514	Gd+	PB	DN	IgG	PB	USM	IgM	29	
57514	Gd+	PB	DN	IgG	PB	PC	IgG	21	
57514	Gd+	PB	DN	IgG	PB	SM	IgG	102	
57514	Gd+	PB	DN	IgM	PB	N	IgM	22	
57514	Gd+	PB	DN	IgM	PB	SM	IgM	4	
57514	Gd+	PB	DN	IgM	PB	USM	IgM	8	
57514	Gd+	PB	DN	IgM	PB	PC	IgG	2	
57514	Gd+	PB	DN	IgM	PB	SM	IgG	5	
57514	Gd+	PB	N	IgM	PB	PC	IgM	13	
57514	Gd+	PB	N	IgM	PB	SM	IgM	24	
57514	Gd+	PB	N	IgM	PB	USM	IgM	245	
57514	Gd+	PB	N	IgM	PB	PC	IgG	8	
57514	Gd+	PB	N	IgM	PB	SM	IgG	69	
57514	Gd+	PB	PC	IgG	PB	PC	IgM	70	
57514	Gd+	PB	PC	IgG	PB	SM	IgM	12	
57514	Gd+	PB	PC	IgG	PB	USM	IgM	29	
57514	Gd+	PB	PC	IgG	PB	SM	IgG	83	
57514	Gd+	PB	PC	IgM	PB	SM	IgM	13	
57514	Gd+	PB	PC	IgM	PB	USM	IgM	35	
57514	Gd+	PB	PC	IgM	PB	SM	IgG	33	
57514	Gd+	PB	SM	IgG	PB	SM	IgM	165	
57514	Gd+	PB	SM	IgG	PB	USM	IgM	277	
57514	Gd+	PB	SM	IgM	PB	USM	IgM	163	
57714	Gd+	CSF	DN	IgG	PB	SM	IgM	1	

57714	Gd+	CSF	DN	IgG	PB	DN	IgG	2
57714	Gd+	CSF	DN	IgG	PB	SM	IgG	1
57714	Gd+	CSF	N	IgM	PB	PC	IgM	2
57714	Gd+	CSF	N	IgM	PB	SM	IgM	1
57714	Gd+	CSF	N	IgM	PB	USM	IgM	5
57714	Gd+	CSF	N	IgM	PB	DN	IgG	2
57714	Gd+	CSF	N	IgM	PB	PC	IgG	2
57714	Gd+	CSF	N	IgM	PB	SM	IgG	2
57714	Gd+	CSF	N	IgM	CSF	USM	IgM	2
57714	Gd+	CSF	N	IgM	PB	N	IgM	4
57714	Gd+	CSF	PC	IgG	PB	PC	IgM	1
57714	Gd+	CSF	PC	IgG	PB	PC	IgG	4
57714	Gd+	CSF	PC	IgG	PB	SM	IgG	3
57714	Gd+	CSF	PC	IgG	CSF	SM	IgG	7
57714	Gd+	CSF	SM	IgG	PB	USM	IgM	2
57714	Gd+	CSF	SM	IgG	PB	DN	IgG	3
57714	Gd+	CSF	SM	IgG	PB	PC	IgG	3
57714	Gd+	CSF	SM	IgG	PB	SM	IgG	7
57714	Gd+	CSF	USM	IgM	PB	N	IgM	4
57714	Gd+	CSF	USM	IgM	PB	PC	IgM	8
57714	Gd+	CSF	USM	IgM	PB	SM	IgM	13
57714	Gd+	CSF	USM	IgM	PB	USM	IgM	29
57714	Gd+	CSF	USM	IgM	PB	DN	IgG	1
57714	Gd+	CSF	USM	IgM	PB	PC	IgG	1
57714	Gd+	CSF	USM	IgM	PB	SM	IgG	7
57714	Gd+	PB	DN	IgG	PB	DN	IgM	4
57714	Gd+	PB	DN	IgG	PB	N	IgM	51
57714	Gd+	PB	DN	IgG	PB	PC	IgM	3
57714	Gd+	PB	DN	IgG	PB	SM	IgM	8
57714	Gd+	PB	DN	IgG	PB	USM	IgM	39
57714	Gd+	PB	DN	IgG	PB	PC	IgG	21
57714	Gd+	PB	DN	IgG	PB	SM	IgG	106
57714	Gd+	PB	DN	IgM	PB	N	IgM	14
57714	Gd+	PB	DN	IgM	PB	PC	IgM	3
57714	Gd+	PB	DN	IgM	PB	SM	IgM	11
57714	Gd+	PB	DN	IgM	PB	USM	IgM	13
57714	Gd+	PB	DN	IgM	PB	PC	IgG	3
57714	Gd+	PB	DN	IgM	PB	SM	IgG	3
57714	Gd+	PB	N	IgM	PB	PC	IgM	13
57714	Gd+	PB	N	IgM	PB	SM	IgM	23
57714	Gd+	PB	N	IgM	PB	USM	IgM	145
57714	Gd+	PB	N	IgM	PB	PC	IgG	8

57714	Gd+	PB	N	IgM	PB	SM	IgG	42
57714	Gd+	PB	PC	IgG	PB	PC	IgM	128
57714	Gd+	PB	PC	IgG	PB	SM	IgM	36
57714	Gd+	PB	PC	IgG	PB	USM	IgM	38
57714	Gd+	PB	PC	IgG	PB	SM	IgG	108
57714	Gd+	PB	PC	IgM	PB	SM	IgM	96
57714	Gd+	PB	PC	IgM	PB	USM	IgM	128
57714	Gd+	PB	PC	IgM	PB	SM	IgG	31
57714	Gd+	PB	SM	IgG	PB	SM	IgM	99
57714	Gd+	PB	SM	IgG	PB	USM	IgM	122
57714	Gd+	PB	SM	IgM	PB	USM	IgM	196
64215	Gd-	CSF	SM	IgG	PB	DN	IgG	1
64215	Gd-	CSF	SM	IgG	PB	PC	IgG	1
64215	Gd-	CSF	SM	IgM	CSF	USM	IgM	1
64215	Gd-	PB	DN	IgG	PB	DN	IgM	17
64215	Gd-	PB	DN	IgG	PB	N	IgM	47
64215	Gd-	PB	DN	IgG	PB	SM	IgM	1
64215	Gd-	PB	DN	IgG	PB	USM	IgM	23
64215	Gd-	PB	DN	IgG	PB	PC	IgG	5
64215	Gd-	PB	DN	IgG	PB	SM	IgG	110
64215	Gd-	PB	DN	IgM	PB	N	IgM	29
64215	Gd-	PB	DN	IgM	PB	PC	IgM	1
64215	Gd-	PB	DN	IgM	PB	SM	IgM	13
64215	Gd-	PB	DN	IgM	PB	USM	IgM	32
64215	Gd-	PB	DN	IgM	PB	SM	IgG	6
64215	Gd-	PB	N	IgM	PB	PC	IgM	2
64215	Gd-	PB	N	IgM	PB	SM	IgM	23
64215	Gd-	PB	N	IgM	PB	USM	IgM	418
64215	Gd-	PB	N	IgM	PB	PC	IgG	4
64215	Gd-	PB	N	IgM	PB	SM	IgG	92
64215	Gd-	PB	PC	IgG	PB	PC	IgM	15
64215	Gd-	PB	PC	IgG	PB	SM	IgM	7
64215	Gd-	PB	PC	IgG	PB	USM	IgM	16
64215	Gd-	PB	PC	IgG	PB	SM	IgG	107
64215	Gd-	PB	PC	IgM	PB	SM	IgM	7
64215	Gd-	PB	PC	IgM	PB	USM	IgM	10
64215	Gd-	PB	PC	IgM	PB	SM	IgG	7
64215	Gd-	PB	SM	IgG	PB	SM	IgM	61
64215	Gd-	PB	SM	IgG	PB	USM	IgM	255
64215	Gd-	PB	SM	IgM	PB	USM	IgM	147



51814	3	Connecting to PB	USM_146293_IGM	IGHV2-5	CAHRTYGFDDYW	IGHJ4	PB	9
51814	3	Connecting to PB	USM_146293_IGM	IGHV2-5	CAHRLYGAFDIW	IGHJ4	PB	19
51814	3	Connecting to PB	SM_200000_IGG	IGHV2-5	CAHRTGGGFDYW	IGHJ4	PB	77
51814	4	CSF exclusive	CSF_37673_IGG	IGHV3-7	AKAGRYYDFWRLGDPKRHDYYSYGLDVM	IGHJ6	CSF	140
51814	5	CSF exclusive	CSF_37673_IGG	IGHV3-43	CAKAIHLWLPGYW	IGHJ4	CSF	176
51814	6	CSF exclusive	CSF_37673_IGG	IGHV3-30	CAKAQGEYCSSTRCYDWWFFDLW	IGHJ2	CSF	19
51814	7	Connecting to PB	CSF_37673_IGG	IGHV3-9	CAKDIPETNMKRVIHYHNGLDVW	IGHJ6	CSF	75
51814	7	Connecting to PB	SM_200000_IGG	IGHV3-9	CTKDIPETNMKRVIHYHNGLDVW	IGHJ6	PB	1
51814	8	CSF exclusive	CSF_37673_IGG	IGHV3-23	CAKDLAGSQYINFWRPYYRYRMDVW	IGHJ6	CSF	12
51814	8	CSF exclusive	CSF_37673_IGG	IGHV3-23	CAKDLAGSQYINFWRPYYRYGMDVW	IGHJ6	CSF	36
51814	9	CSF exclusive	CSF_37673_IGG	IGHV3-23	CAKDLTLFQVVIISDWDYGMVW	IGHJ6	CSF	144
51814	10	Connecting to PB	CSF_37673_IGG	IGHV3-23	CAKDPKYSYDSDHYFDYW	IGHJ4	CSF	87
51814	10	Connecting to PB	SM_200000_IGG	IGHV3-23	CAKDPKYSYDSDHYFDYW	IGHJ4	PB	1
51814	11	Connecting to PB	CSF_37673_IGG	IGHV3-9	CAKDTMYSSSSGSYFDSW	IGHJ4	CSF	68
51814	11	Connecting to PB	Naive_200000_IGM	IGHV3-9	CAKDTMYSSSSGSYFDSW	IGHJ4	PB	1
51814	12	Connecting to PB	CSF_37673_IGG	IGHV1-18	CAKNYYDYRGYPLDIDYW	IGHJ4	CSF	1718
51814	12	Connecting to PB	DN_43729_IGG	IGHV1-18	CAKNYYDYRGYPLDIDYW	IGHJ4	PB	1
51814	13	CSF exclusive	CSF_37673_IGG	IGHV3-9	CAKSLQGAAYANGLERDRYFGLDVM	IGHJ6	CSF	101
51814	14	Connecting to PB	CSF_37673_IGG	IGHV4-34	CAKYYSGEDFW	IGHJ4	CSF	22
51814	14	Connecting to PB	DN_43729_IGG	IGHV4-34	CAKYYSGEDFW	IGHJ4	PB	23
51814	14	Connecting to PB	PC_7585_IGG	IGHV4-34	CAKYYSGEDYD	IGHJ4	PB	72
51814	14	Connecting to PB	SM_200000_IGG	IGHV4-34	CAKYYSGEDFW	IGHJ4	PB	885
51814	15	Connecting to PB	CSF_37673_IGG	IGHV4-59	CALRDNGYYPY	IGHJ4	CSF	447
51814	15	Connecting to PB	SM_200000_IGG	IGHV4-59	CALRDNGYYPY	IGHJ4	PB	48
51814	16	Connecting to PB	CSF_37673_IGG	IGHV1-8	CARAAAAGWGLDYW	IGHJ4	CSF	1
51814	16	Connecting to PB	SM_200000_IGG	IGHV1-8	CARAAAAGWGLDYW	IGHJ4	PB	1
51814	17	Connecting to PB	CSF_37673_IGG	IGHV4-34	CARAQRVDPDLSWGPKSYYSGMDVW	IGHJ6	CSF	144
51814	17	Connecting to PB	SM_200000_IGG	IGHV4-34	CARAQRVDPDLSWGPKSYYSGMDVW	IGHJ6	PB	2
51814	18	CSF exclusive	CSF_37673_IGG	IGHV3-74	CARDLAAVKTYFYNYGMDVW	IGHJ6	CSF	33
51814	19	CSF exclusive	CSF_37673_IGG	IGHV3-48	CARDRKSIRVPYFSGNYDYAMDVW	IGHJ6	CSF	72
51814	20	CSF exclusive	CSF_37673_IGG	IGHV4-59	CAREFFYYDDSGYRRYFDLW	IGHJ2	CSF	206
51814	21	CSF exclusive	CSF_37673_IGG	IGHV1-46	CARELQLWFGMDVW	IGHJ6	CSF	86
51814	22	CSF exclusive	CSF_37673_IGG	IGHV4-28	CARGAIGGAGPRVGYPPYQLDVM	IGHJ6	CSF	471
51814	23	CSF exclusive	CSF_37673_IGG	IGHV4-28	CARGGDYGLPIDYW	IGHJ4	CSF	499
51814	24	Connecting to PB	CSF_37673_IGG	IGHV4-34	CARGGGMDVW	IGHJ6	CSF	88
51814	24	Connecting to PB	Naive_200000_IGM	IGHV4-34	CARRSYGMDVW	IGHJ6	PB	1
51814	24	Connecting to PB	USM_146293_IGM	IGHV4-34	CARVYGMVW	IGHJ6	PB	2
51814	24	Connecting to PB	USM_146293_IGM	IGHV4-34	CASGYGMVW	IGHJ6	PB	2
51814	24	Connecting to PB	Naive_200000_IGM	IGHV4-34	CARPYGMVW	IGHJ6	PB	4
51814	24	Connecting to PB	USM_146293_IGM	IGHV4-34	CARWYGMVW	IGHJ6	PB	4
51814	25	Connecting to PB	CSF_37673_IGG	IGHV4-59	CARGGYCANGVCYSSSAFDLW	IGHJ3	CSF	1
51814	25	Connecting to PB	PC_7585_IGG	IGHV4-59	CARGGYCANGVCYSSSAFDLW	IGHJ3	PB	20
51814	26	Connecting to PB	CSF_37673_IGG	IGHV1-8	CARGRVAAGPFDYW	IGHJ4	CSF	1
51814	26	Connecting to PB	DN_43729_IGM	IGHV1-8	CARGRVAAGPFDYW	IGHJ4	PB	3
51814	26	Connecting to PB	DN_43729_IGG	IGHV1-8	CARGRVAAGPFDYW	IGHJ4	PB	2931
51814	27	CSF exclusive	CSF_37673_IGG	IGHV1-18	CARGRVAGNLVFDYW	IGHJ4	CSF	2340
51814	28	CSF exclusive	CSF_37673_IGG	IGHV3-13	CARGSMVRGVIIPRVYGLDAW	IGHJ6	CSF	1082
51814	29	CSF exclusive	CSF_37673_IGG	IGHV1-69	CARGSYHDSAWGRSRYTTEALAIW	IGHJ3	CSF	722
51814	30	CSF exclusive	CSF_37673_IGG	IGHV5-51	CARHCSGISSAWCVNWPDPW	IGHJ5	CSF	4
51814	30	CSF exclusive	CSF_37673_IGM	IGHV5-51	CARHCSGISSAWCVNWPDPW	IGHJ5	CSF	164
51814	31	CSF exclusive	CSF_37673_IGG	IGHV4-39	CARHRCYCSSTSCYVWLDYW	IGHJ4	CSF	306
51814	32	Connecting to PB	CSF_37673_IGG	IGHV4-59	CARHYTVSRYFDYW	IGHJ4	CSF	1742
51814	32	Connecting to PB	SM_200000_IGG	IGHV4-59	CARHYTVSRYFDYW	IGHJ4	PB	4
51814	33	Connecting to PB	CSF_37673_IGG	IGHV4-59	CARKASLNWFPDPW	IGHJ5	CSF	15610
51814	33	Connecting to PB	PC_7585_IGG	IGHV4-59	CARKASLNWFPDPW	IGHJ5	PB	1
51814	33	Connecting to PB	SM_200000_IGG	IGHV4-59	CARKASLNWFPDPW	IGHJ5	PB	31
51814	34	CSF exclusive	CSF_37673_IGG	IGHV3-74	CARKPITLVRGGYGMVW	IGHJ6	CSF	24
51814	35	Connecting to PB	CSF_37673_IGG	IGHV3-53	CARNIDYGDYGRMDVW	IGHJ6	CSF	3254
51814	35	Connecting to PB	DN_43729_IGG	IGHV3-53	CARNIDYSDYGRMDVW	IGHJ6	PB	1
51814	35	Connecting to PB	SM_200000_IGG	IGHV3-53	CARNIDYGDYGRMDVW	IGHJ6	PB	6
51814	35	Connecting to PB	DN_43729_IGG	IGHV3-53	CARNIDYGDYGRMDVW	IGHJ6	PB	10
51814	36	CSF exclusive	CSF_37673_IGG	IGHV4-31	CARNNWKPGDTSDDGWRSPGNFDYW	IGHJ4	CSF	59
51814	37	Connecting to PB	CSF_37673_IGG	IGHV1-3	CARPAQLWSNSFDYW	IGHJ4	CSF	1
51814	37	Connecting to PB	DN_43729_IGG	IGHV1-3	CARPAQLWSNSFDYW	IGHJ4	PB	555
51814	38	CSF exclusive	CSF_37673_IGG	IGHV3-23	CARPVNPTYDFWLSLW	IGHJ5	CSF	3
51814	39	Connecting to PB	CSF_37673_IGG	IGHV2-70	CARTYSRSWNYDYD	IGHJ4	CSF	1314
51814	39	Connecting to PB	SM_200000_IGG	IGHV2-70	CAQYYSRSWNYDYD	IGHJ4	PB	1
51814	39	Connecting to PB	SM_200000_IGG	IGHV2-70	CARTYSRSWNYFDYW	IGHJ4	PB	2
51814	39	Connecting to PB	SM_200000_IGG	IGHV2-70	CARTYSRSWNYDYD	IGHJ4	PB	14
51814	40	CSF exclusive	CSF_37673_IGG	IGHV1-2	CARVQGAFEETSGLVGAWNSDLW	IGHJ2	CSF	126
51814	41	CSF exclusive	CSF_37673_IGG	IGHV3-74	CARVRGSVKYGTVDVW	IGHJ6	CSF	1
51814	41	CSF exclusive	CSF_37673_IGG	IGHV3-74	RARVRGSVKYGMVW	IGHJ6	CSF	1
51814	41	CSF exclusive	CSF_37673_IGG	IGHV3-74	CARVRGSVKYGMVW	IGHJ6	CSF	20
51814	42	CSF exclusive	CSF_37673_IGG	IGHV4-34	CATADRASLGYW	IGHJ4	CSF	1
51814	43	CSF exclusive	CSF_37673_IGG	IGHV1-18	CATDRLGSSSLDHW	IGHJ4	CSF	195
51814	44	Connecting to PB	CSF_37673_IGG	IGHV2-5	CATGSVDMVRGLFDYGMVW	IGHJ6	CSF	1
51814	44	Connecting to PB	DN_43729_IGG	IGHV2-5	CATGSVDMVRGLFDYGMVW	IGHJ6	PB	2931
51814	45	CSF exclusive	CSF_37673_IGG	IGHV4-39	CATHTNDFYRGWFDPW	IGHJ5	CSF	33
51814	46	CSF exclusive	CSF_37673_IGG	IGHV4-34	CATQLYYGYYGLDVM	IGHJ6	CSF	20
51814	47	CSF exclusive	CSF_37673_IGG	IGHV4-31	CATQRTTWTKRFPDPW	IGHJ5	CSF	1
51814	47	CSF exclusive	CSF_37673_IGG	IGHV4-31	CATQRTTWTKRFPDPW	IGHJ5	CSF	157
51814	48	Connecting to PB	CSF_37673_IGG	IGHV4-39	CGRGGDYGLPIDYW	IGHJ4	CSF	1
51814	48	Connecting to PB	SM_200000_IGG	IGHV4-39	CARGGDYGLPIDYW	IGHJ4	PB	2
51814	49	Connecting to PB	CSF_37673_IGG	IGHV3-15	CTAGLAARRPLW	IGHJ5	CSF	1
51814	49	Connecting to PB	CSF_37673_IGG	IGHV3-15	RTAGLAARRLLW	IGHJ5	CSF	1

51814	49	Connecting to PB	CSF_37673_IGG	IGHV3-15	CTAGLAARRLLW	IGHJ5	CSF	26
51814	49	Connecting to PB	CSF_37673_IGG	IGHV3-15	CTAGLAARKLLW	IGHJ5	CSF	548
51814	49	Connecting to PB	SM_200000_IGG	IGHV3-15	CTAGLAARKLLW	IGHJ5	PB	2
51814	49	Connecting to PB	PC_7585_IGG	IGHV3-15	CTAGLAARKLLW	IGHJ5	PB	41
51814	50	Connecting to PB	CSF_37673_IGG	IGHV1-69	CTRTWDSSGRGAFDIW	IGHJ3	CSF	283
51814	50	Connecting to PB	PC_7585_IGG	IGHV1-69	CTRTWDSSGRGAFDIW	IGHJ3	PB	7
51814	51	CSF exclusive	CSF_37673_IGG	IGHV3-15	CTTRQLPLPW	IGHJ5	CSF	2
51814	52	CSF exclusive	CSF_37673_IGG	IGHV2-5	RVHGVIGTYWDFDPW	IGHJ5	CSF	1
51814	52	CSF exclusive	CSF_37673_IGG	IGHV2-5	CVHGGIGTYWDFDPW	IGHJ5	CSF	2393
51814	53	Connecting to PB	CSF_37673_IGG	IGHV2-5	CVKRGPIEDAFDLW	IGHJ3	CSF	8516
51814	53	Connecting to PB	PC_7585_IGG	IGHV2-5	CVKRGPIEDAFDLW	IGHJ3	PB	2
51814	53	Connecting to PB	SM_200000_IGG	IGHV2-5	CVKRGPIEDAFDLW	IGHJ3	PB	60
51814	54	CSF exclusive	CSF_37673_IGG	IGHV4-4	RALRDNGGYYPYR	IGHJ5	CSF	1
51814	55	CSF exclusive	CSF_37673_IGM	IGHV3-15	AVAGTDYW	IGHJ4	CSF	6
51814	56	Connecting to PB	CSF_37673_IGM	IGHV3-11	CARESANFDYW	IGHJ4	CSF	7
51814	56	Connecting to PB	USM_146293_IGM	IGHV3-11	CARESANFDYW	IGHJ4	PB	8
51814	57	CSF exclusive	CSF_37673_IGM	IGHV1-8	CARFGGSYYTMDVDYW	IGHJ4	CSF	80
51814	58	CSF exclusive	CSF_37673_IGM	IGHV4-59	CARLFLPSLYDDYGATLDYW	IGHJ4	CSF	2
51814	58	CSF exclusive	CSF_37673_IGM	IGHV4-59	CARLFLPSLYDDYGATLDYW	IGHJ4	CSF	24
51814	59	CSF exclusive	CSF_37673_IGM	IGHV5-51	CARPVSCSGGSCISCSGGSCYSGLDWW	IGHJ6	CSF	20
51814	60	CSF exclusive	CSF_37673_IGM	IGHV3-53	CMGYDVNW	IGHJ4	CSF	7
56414	1	CSF exclusive	CSF-DN_289_IGG	IGHV4-39	CAAVLHDYDTGGYTFW	IGHJ4	CSF	58
56414	2	CSF exclusive	CSF-DN_289_IGG	IGHV3-23	CAKDLAAPQDW	IGHJ4	CSF	19
56414	3	Connecting to PB	CSF-DN_289_IGG	IGHV3-30	CAKEFRHSSPYYYNYMDVW	IGHJ6	CSF	47
56414	3	Connecting to PB	DN_61743_IGG	IGHV3-30	CAKEFRHSSPYYYNYMDVW	IGHJ6	PB	1
56414	3	Connecting to PB	SM_200000_IGG	IGHV3-30	CAKEFRYSSPYYYNYMDVW	IGHJ6	PB	3
56414	4	CSF exclusive	CSF-DN_289_IGG	IGHV3-23	CAKVQHLGIDYW	IGHJ4	CSF	37
56414	5	CSF exclusive	CSF-DN_289_IGG	IGHV4-39	CALIVTTSGDWYFDLW	IGHJ2	CSF	149
56414	6	Connecting to PB	CSF-DN_289_IGG	IGHV1-3	CARALFSGLGEPRGMAFDIW	IGHJ3	CSF	1
56414	6	Connecting to PB	SM_200000_IGG	IGHV1-3	CARALFSGLGEPRGMAFDIW	IGHJ3	PB	2
56414	6	Connecting to PB	SM_200000_IGG	IGHV1-3	CARALFSGLGEPRGMAFDIW	IGHJ3	PB	4
56414	6	Connecting to PB	PC_2081_IGG	IGHV1-3	CARALFSGLGEPRGMAFDIW	IGHJ3	PB	11048
56414	7	CSF exclusive	CSF-DN_289_IGG	IGHV1-18	CARDGGERGWDFDPW	IGHJ5	CSF	1
56414	8	Connecting to PB	CSF-SM_796_IGG	IGHV1-2	CARDHVFYDSSGPPVSATLRYW	IGHJ4	CSF	1
56414	8	Connecting to PB	CSF-DN_289_IGG	IGHV1-2	CARDHVFYDTSGPPVSATLRYW	IGHJ4	CSF	21
56414	8	Connecting to PB	CSF-DN_289_IGG	IGHV1-2	CARDHVFYDSSGPPVSATLRFW	IGHJ4	CSF	33
56414	8	Connecting to PB	CSF-SM_796_IGG	IGHV1-2	CARDHVFYDSSGPPVSATLRYW	IGHJ4	CSF	92
56414	8	Connecting to PB	CSF-SM_796_IGG	IGHV1-2	CARDHAFYDSSGPPVSASLRYW	IGHJ4	CSF	188
56414	8	Connecting to PB	CSF-SM_796_IGG	IGHV1-2	CARDHAFYDSSGPPVSASLRYW	IGHJ4	CSF	252
56414	8	Connecting to PB	CSF-DN_289_IGG	IGHV1-2	CARDHVFYDSSGPPVSATLRYW	IGHJ4	CSF	746
56414	8	Connecting to PB	SM_200000_IGG	IGHV1-2	CARDHVFYDSSGPPVSATSRYW	IGHJ4	PB	3
56414	8	Connecting to PB	DN_61743_IGG	IGHV1-2	CARDHIFYDSSGPPVSATLRYW	IGHJ4	PB	9
56414	8	Connecting to PB	SM_200000_IGG	IGHV1-2	CARDHAFYDSSGPPVSASLRYW	IGHJ4	PB	22
56414	8	Connecting to PB	DN_61743_IGG	IGHV1-2	CARDHVFYESSGPPVSATLTYW	IGHJ4	PB	26
56414	8	Connecting to PB	SM_200000_IGG	IGHV1-2	CARDHVFYESSGPPVSATLTYW	IGHJ4	PB	31
56414	8	Connecting to PB	SM_200000_IGG	IGHV1-2	CARDHVFYDSSGPPVSATLRYW	IGHJ4	PB	35
56414	8	Connecting to PB	DN_61743_IGG	IGHV1-2	CARDHVFYDSSGPPVSATLSYW	IGHJ4	PB	42
56414	8	Connecting to PB	DN_61743_IGG	IGHV1-2	CARDHAFYDSSGPPVSATLRYW	IGHJ4	PB	136
56414	8	Connecting to PB	DN_61743_IGG	IGHV1-2	CARDHVFYDSSGPPVSATLRYW	IGHJ4	PB	259
56414	9	CSF exclusive	CSF-DN_289_IGG	IGHV4-39	CARDLTTGLYFESW	IGHJ4	CSF	121
56414	10	CSF exclusive	CSF-DN_289_IGG	IGHV3-48	CARDRGHDYLEVLNHFDPW	IGHJ4	CSF	4
56414	11	CSF exclusive	CSF-DN_289_IGG	IGHV3-7	CAREGDYSHYWSRRNIKYYMDVW	IGHJ6	CSF	238
56414	12	CSF exclusive	CSF-DN_289_IGG	IGHV4-28	CAREGNYDSSGHMDVW	IGHJ6	CSF	36
56414	13	Connecting to PB	CSF-SM_796_IGG	IGHV4-59	CARENRSYGLAFDRW	IGHJ4	CSF	1
56414	13	Connecting to PB	CSF-SM_796_IGG	IGHV4-59	CARENRSYGHAFDHW	IGHJ4	CSF	710
56414	13	Connecting to PB	CSF-DN_289_IGG	IGHV4-59	CARENRSYGHAFDHW	IGHJ4	CSF	826
56414	13	Connecting to PB	SM_200000_IGG	IGHV4-59	RARENRSYGHAFDHW	IGHJ4	PB	1
56414	13	Connecting to PB	DN_61743_IGG	IGHV4-59	CARENRSYGHAFDHW	IGHJ4	PB	3
56414	13	Connecting to PB	SM_200000_IGG	IGHV4-59	CARENRSYGHAFDHW	IGHJ4	PB	8
56414	14	CSF exclusive	CSF-DN_289_IGG	IGHV3-30	CARGGTSRRGAMDVW	IGHJ6	CSF	89
56414	15	Connecting to PB	CSF-DN_289_IGG	IGHV3-21	CARGVFGNNRWDADFIDW	IGHJ3	CSF	41
56414	15	Connecting to PB	SM_200000_IGG	IGHV3-21	CARGVFGNNRWDADFIDW	IGHJ3	PB	1
56414	15	Connecting to PB	DN_61743_IGG	IGHV3-21	CARGVFGNNRWDADFIDW	IGHJ3	PB	10
56414	16	Connecting to PB	CSF-DN_289_IGG	IGHV4-59	CARHSGSPRRFDYW	IGHJ4	CSF	223
56414	16	Connecting to PB	CSF-SM_796_IGG	IGHV4-59	CARHSGSPRRFDYW	IGHJ4	CSF	656
56414	16	Connecting to PB	DN_61743_IGG	IGHV4-59	CARHSGSPRRFDYW	IGHJ4	PB	314
56414	16	Connecting to PB	SM_200000_IGG	IGHV4-59	CARHSGSPRRFDYW	IGHJ4	PB	381
56414	17	Connecting to PB	CSF-DN_289_IGG	IGHV4-34	CARILNIVDTARIDFW	IGHJ4	CSF	1
56414	17	Connecting to PB	CSF-SM_796_IGG	IGHV4-34	CARILNIVGSAHIDFW	IGHJ4	CSF	33
56414	17	Connecting to PB	CSF-SM_796_IGG	IGHV4-34	CARILNKVGAHIDFW	IGHJ4	CSF	37
56414	17	Connecting to PB	CSF-SM_796_IGG	IGHV4-34	CGRILNIVGSAHIDFW	IGHJ4	CSF	208
56414	17	Connecting to PB	CSF-DN_289_IGG	IGHV4-34	CARILNIVGTAHIDFW	IGHJ4	CSF	385
56414	17	Connecting to PB	CSF-DN_289_IGG	IGHV4-34	CGRILNIVGSAHIDFW	IGHJ4	CSF	1531
56414	17	Connecting to PB	DN_61743_IGG	IGHV4-34	CGRILNIVGSAHIDFW	IGHJ4	PB	1
56414	17	Connecting to PB	SM_200000_IGM	IGHV4-34	CGRILNIVGSAHIDFW	IGHJ4	PB	1
56414	17	Connecting to PB	SM_200000_IGG	IGHV4-34	CGRILNIMDSAHIDFW	IGHJ4	PB	2
56414	17	Connecting to PB	DN_61743_IGG	IGHV4-34	CARILNIVGTAHIDFW	IGHJ4	PB	3
56414	17	Connecting to PB	DN_61743_IGG	IGHV4-34	CATILNKVGAHIDFW	IGHJ4	PB	5
56414	17	Connecting to PB	DN_61743_IGG	IGHV4-34	CGRILNIVGSAHIDFW	IGHJ4	PB	8
56414	17	Connecting to PB	SM_200000_IGG	IGHV4-34	CGRILNIVGSAHIDFW	IGHJ4	PB	11
56414	18	CSF exclusive	CSF-DN_289_IGG	IGHV2-26	CARIRSGYDFWSGYAYYYGMDVW	IGHJ6	CSF	267
56414	19	CSF exclusive	CSF-DN_289_IGG	IGHV3-7	CARIYRDFDHTGFFFLDYW	IGHJ4	CSF	119
56414	20	Connecting to PB	CSF-DN_289_IGG	IGHV2-26	CARMRYISSWYQELGYDYW	IGHJ4	CSF	1
56414	20	Connecting to PB	DN_61743_IGG	IGHV2-26	CTRMRYISSWYQELGYDYW	IGHJ4	PB	1
56414	20	Connecting to PB	SM_200000_IGG	IGHV2-26	RARMRYISSWYQELGYDYW	IGHJ4	PB	1

56414	20	Connecting to PB	SM_200000_IGG	IGHV2-26	CARMRYISGWQELGHDIYW	IGHJ4	PB	2
56414	20	Connecting to PB	SM_200000_IGG	IGHV2-26	CARMRYISSWQELDYDIYW	IGHJ4	PB	2
56414	20	Connecting to PB	SM_200000_IGM	IGHV2-26	CARMRYISSWQELGYDIYW	IGHJ4	PB	9
56414	20	Connecting to PB	SM_200000_IGG	IGHV2-26	CARMRYISSWQELGYDIYW	IGHJ4	PB	320
56414	21	CSF exclusive	CSF-DN_289_IGG	IGHV5-51	CARNLGHCTASASCHDGLDIW	IGHJ3	CSF	11
56414	22	Connecting to PB	CSF-DN_289_IGG	IGHV5-51	CARNLGYCTASARCHDAFDIW	IGHJ3	CSF	3496
56414	22	Connecting to PB	SM_200000_IGG	IGHV5-51	CARNPRYCTASCHDAFDIW	IGHJ3	PB	1
56414	22	Connecting to PB	DN_61743_IGG	IGHV5-51	CARNLGYCTSTSCHDAFDIW	IGHJ3	PB	4
56414	22	Connecting to PB	SM_200000_IGG	IGHV5-51	CARNPGYCTASCHDAFDIW	IGHJ3	PB	10
56414	22	Connecting to PB	SM_200000_IGG	IGHV5-51	CARNLGYCPSASCHDAFDIW	IGHJ3	PB	13
56414	22	Connecting to PB	DN_61743_IGG	IGHV5-51	CARNLGYCTSGSCHDAFDIW	IGHJ3	PB	18
56414	22	Connecting to PB	SM_200000_IGG	IGHV5-51	CARNLGFCTASCHDAFDIW	IGHJ3	PB	20
56414	22	Connecting to PB	SM_200000_IGG	IGHV5-51	CARNLGYCTASCHDAFDIW	IGHJ3	PB	32
56414	22	Connecting to PB	DN_61743_IGG	IGHV5-51	CARNLGYCTASCHDAFDIW	IGHJ3	PB	39
56414	22	Connecting to PB	DN_61743_IGG	IGHV5-51	CARNPGYCTASCHDAFDIW	IGHJ3	PB	47
56414	22	Connecting to PB	DN_61743_IGG	IGHV5-51	CGRNLGYCTASCHDAFDIW	IGHJ3	PB	47
56414	22	Connecting to PB	DN_61743_IGG	IGHV5-51	CARNLGYCTASCHDAFDIW	IGHJ3	PB	95
56414	22	Connecting to PB	SM_200000_IGG	IGHV5-51	CARNLGYCTASCHDAFDIW	IGHJ3	PB	129
56414	22	Connecting to PB	DN_61743_IGG	IGHV5-51	CARNLGYCTASCHDAFDIW	IGHJ3	PB	402
56414	23	Connecting to PB	CSF-DN_289_IGG	IGHV2-70	CARSQSNWGLRVFDYW	IGHJ4	CSF	53
56414	23	Connecting to PB	SM_200000_IGG	IGHV2-70	CARSQSNWGLRVFDYW	IGHJ4	PB	11
56414	23	Connecting to PB	DN_61743_IGG	IGHV2-70	CARSQSNWGLRVFDYW	IGHJ4	PB	102
56414	24	Connecting to PB	CSF-DN_289_IGG	IGHV5-51	CARTGPQWLSLR	IGHJ4	CSF	1
56414	24	Connecting to PB	CSF-DN_289_IGG	IGHV5-51	CARTGPQWLFLW	IGHJ4	CSF	68
56414	24	Connecting to PB	DN_61743_IGG	IGHV5-51	CARTGPQWLFLW	IGHJ4	PB	1
56414	25	CSF exclusive	CSF-DN_289_IGG	IGHV4-59	CARTYGDYAWFDPW	IGHJ5	CSF	397
56414	26	Connecting to PB	CSF-SM_796_IGG	IGHV3-48	CARVGHDKRYFDYW	IGHJ4	CSF	1
56414	26	Connecting to PB	CSF-DN_289_IGG	IGHV3-48	CARVGDDYKRYFDYW	IGHJ4	CSF	107
56414	26	Connecting to PB	CSF-SM_796_IGG	IGHV3-48	CARVGNDYKRYFDYW	IGHJ4	CSF	219
56414	26	Connecting to PB	CSF-SM_796_IGG	IGHV3-48	CARVGDDYKRYFDYW	IGHJ4	CSF	301
56414	26	Connecting to PB	PC_2081_IGG	IGHV3-48	CARVGDDYKRYFDYW	IGHJ4	PB	8
56414	26	Connecting to PB	SM_200000_IGG	IGHV3-48	CARVGDDYKRYFDYW	IGHJ4	PB	137
56414	27	CSF exclusive	CSF-DN_289_IGG	IGHV4-55	CARVKMDSFDIW	IGHJ3	CSF	202
56414	28	CSF exclusive	CSF-DN_289_IGG	IGHV4-59	CARVLSGADAFDIW	IGHJ3	CSF	251
56414	29	CSF exclusive	CSF-DN_289_IGG	IGHV1-18	CARVPIVGSYYYGMDVW	IGHJ6	CSF	15
56414	30	Connecting to PB	CSF-DN_289_IGG	IGHV1-69	CASDARQDYYYYYMDVW	IGHJ6	CSF	1
56414	30	Connecting to PB	DN_61743_IGG	IGHV1-69	CASDARQDYYYYYMDVW	IGHJ6	PB	127
56414	31	Connecting to PB	CSF-DN_289_IGG	IGHV3-30	CASSKWLHYALEYW	IGHJ4	CSF	48
56414	31	Connecting to PB	SM_200000_IGG	IGHV3-30	CASSKWLHYALVYW	IGHJ4	PB	2
56414	31	Connecting to PB	SM_200000_IGG	IGHV3-30	CASSKWLHYALEYW	IGHJ4	PB	3
56414	31	Connecting to PB	SM_200000_IGG	IGHV3-30	CASSKWLHYALKYW	IGHJ4	PB	10
56414	32	CSF exclusive	CSF-DN_289_IGG	IGHV3-43	CASIRGGRRPLDYLW	IGHJ4	CSF	1
56414	32	CSF exclusive	CSF-DN_289_IGG	IGHV3-43	CASIRGGRQPLDYLW	IGHJ4	CSF	18
56414	33	CSF exclusive	CSF-DN_289_IGG	IGHV1-2	CAVGLASDGLHIW	IGHJ3	CSF	2
56414	34	CSF exclusive	CSF-DN_289_IGG	IGHV1-69	CAVGPPYYDSSGYVDVW	IGHJ5	CSF	13
56414	35	CSF exclusive	CSF-DN_289_IGG	IGHV1-69	CAVGPPYYDSSGYVDVW	IGHJ4	CSF	234
56414	36	Connecting to PB	CSF-DN_289_IGG	IGHV3-23	CTRWMPSYDGMVW	IGHJ6	CSF	12
56414	36	Connecting to PB	CSF-SM_796_IGG	IGHV3-23	CTKWMPSYDGMVW	IGHJ6	CSF	361
56414	36	Connecting to PB	SM_200000_IGG	IGHV3-23	CTKWMASDGMVW	IGHJ6	PB	25
56414	36	Connecting to PB	SM_200000_IGG	IGHV3-23	CTKWMPSYDGMVW	IGHJ6	PB	113
56414	36	Connecting to PB	DN_61743_IGG	IGHV3-23	CTKWMPSYDGMVW	IGHJ6	PB	196
56414	37	CSF exclusive	CSF-DN_289_IGG	IGHV3-23	CVKDMTHDYYYGRDVW	IGHJ6	CSF	27
56414	38	CSF exclusive	CSF-DN_289_IGG	IGHV3-23	CVKGSPTVTPFSW	IGHJ5	CSF	28
56414	39	CSF exclusive	CSF-DN_289_IGG	IGHV4-28	CVRDNAGDYEFW	IGHJ4	CSF	13
56414	40	CSF exclusive	CSF-N_223_IGM	IGHV1-58	CAAAATRGYDLEYW	IGHJ4	CSF	167
56414	41	CSF exclusive	CSF-N_223_IGM	IGHV1-46	CAAGIAAEQAIDYW	IGHJ4	CSF	166
56414	42	Connecting to PB	CSF-N_223_IGM	IGHV1-3	CAAPGWQLTDW	IGHJ4	CSF	887
56414	42	Connecting to PB	Naive_200000_IGM	IGHV1-3	CAAPGWQLTDW	IGHJ4	PB	16
56414	43	Connecting to PB	CSF-N_223_IGM	IGHV6-1	CAGSGSYMWNW	IGHJ4	CSF	1
56414	43	Connecting to PB	USM_87637_IGM	IGHV6-1	CAGSGSYMWNW	IGHJ4	PB	202
56414	44	CSF exclusive	CSF-N_223_IGM	IGHV2-5	CVHEYDILTGTTEYLHHW	IGHJ1	CSF	2
56414	44	CSF exclusive	CSF-N_223_IGM	IGHV2-5	CAHEYDILTGTTEYFHHW	IGHJ1	CSF	1242
56414	45	CSF exclusive	CSF-N_223_IGM	IGHV2-5	CAHRPRVGDTEGIFHFDYW	IGHJ4	CSF	14
56414	46	Connecting to PB	CSF-N_223_IGM	IGHV2-5	CAHRPWGLRTPGYW	IGHJ4	CSF	18
56414	46	Connecting to PB	CSF-N_223_IGM	IGHV2-5	CAHRPWGLRTPDYR	IGHJ4	CSF	76
56414	46	Connecting to PB	CSF-N_223_IGM	IGHV2-5	CAHRPWGLRTPDYR	IGHJ4	CSF	175
56414	46	Connecting to PB	Naive_200000_IGM	IGHV2-5	CAHRPWGLRTPDYR	IGHJ4	PB	1
56414	47	CSF exclusive	CSF-N_223_IGM	IGHV2-5	CAHRRGAVAGTEPFDPW	IGHJ4	CSF	48
56414	48	Connecting to PB	CSF-N_223_IGM	IGHV2-5	CAHSGLDYYYYMDVW	IGHJ6	CSF	1742
56414	48	Connecting to PB	SM_200000_IGM	IGHV2-5	CAHSGLDYYYYMDVW	IGHJ6	PB	4
56414	49	Connecting to PB	CSF-N_223_IGM	IGHV3-23	CAKAGPAGELRSWFPDW	IGHJ5	CSF	72
56414	49	Connecting to PB	DN_61743_IGG	IGHV3-23	CAKAGPAGELRSWFPDW	IGHJ5	PB	1
56414	50	CSF exclusive	CSF-N_223_IGM	IGHV3-43	CAKATYSGGLSSW	IGHJ5	CSF	46
56414	51	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKAVGIAAAGPYFDYW	IGHJ4	CSF	1
56414	52	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKCTMVRGIVISW	IGHJ4	CSF	117
56414	53	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKDIAVAGTFDHW	IGHJ4	CSF	26
56414	54	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKDQWELEAFDIW	IGHJ3	CSF	27
56414	55	Connecting to PB	CSF-N_223_IGM	IGHV3-23	CAKDRRTGDDW	IGHJ4	CSF	1
56414	55	Connecting to PB	PC_2081_IGM	IGHV3-23	CAKDRRTGDDW	IGHJ4	PB	2
56414	55	Connecting to PB	PC_2081_IGG	IGHV3-23	CAKDRRTGDDW	IGHJ4	PB	601
56414	56	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKDRVGQWPTILFDYW	IGHJ4	CSF	79
56414	57	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKDWYDYYGSGCIDYW	IGHJ4	CSF	143
56414	58	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKGRPGIAAAGTRNAPDIW	IGHJ3	CSF	29
56414	59	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKGSSSWYSRYFDYW	IGHJ4	CSF	38
56414	60	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKLTIVKGGGWFPDW	IGHJ5	CSF	18



56414	61	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKPTGVKYFDYW	IGHJ4	CSF	55
56414	62	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKRAPGYSSGWYTYW	IGHJ4	CSF	51
56414	63	CSF exclusive	CSF-N_223_IGM	IGHV3-23	CAKSLGVKEWYFDLW	IGHJ2	CSF	72
56414	64	Connecting to PB	CSF-N_223_IGM	IGHV3-23	CAKVREYYDDSSGSVDYW	IGHJ4	CSF	84
56414	64	Connecting to PB	Naive_200000_IGM	IGHV3-23	CAKVREYYDDSSGSVGYR	IGHJ4	PB	1
56414	65	CSF exclusive	CSF-N_223_IGM	IGHV4-39	CARAGVGGPMDYW	IGHJ4	CSF	184
56414	66	CSF exclusive	CSF-N_223_IGM	IGHV4-55	CARAGWSWFDPW	IGHJ5	CSF	237
56414	67	CSF exclusive	CSF-N_223_IGM	IGHV4-34	CARASGGFPELNFDYW	IGHJ4	CSF	57
56414	68	CSF exclusive	CSF-N_223_IGM	IGHV3-30	CARAVIGSGVAIDYW	IGHJ4	CSF	1
56414	69	CSF exclusive	CSF-N_223_IGM	IGHV4-55	CARAVITAMVTSWFDPW	IGHJ5	CSF	1
56414	70	CSF exclusive	CSF-N_223_IGM	IGHV4-31	CARDSSGYPPSHYFDYW	IGHJ4	CSF	86
56414	71	Connecting to PB	CSF-N_223_IGM	IGHV1-18	CARDYDSSGRLDYW	IGHJ4	CSF	1
56414	71	Connecting to PB	USM_87637_IGM	IGHV1-18	CARDYDSSGNFDYW	IGHJ4	PB	1
56414	71	Connecting to PB	USM_87637_IGM	IGHV1-18	CARDYDSSGDFDYW	IGHJ4	PB	3
56414	71	Connecting to PB	USM_87637_IGM	IGHV1-18	CARGDYDSSGSLDYW	IGHJ4	PB	4
56414	71	Connecting to PB	USM_87637_IGM	IGHV1-18	CARGDYDSSGTLDYW	IGHJ4	PB	9
56414	71	Connecting to PB	USM_87637_IGM	IGHV1-18	CARDYDSSGSLDYW	IGHJ4	PB	14
56414	71	Connecting to PB	USM_87637_IGM	IGHV1-18	CARSYDSSGTLDYW	IGHJ4	PB	20
56414	71	Connecting to PB	USM_87637_IGM	IGHV1-18	CARDYDSSGQLDYW	IGHJ4	PB	41
56414	71	Connecting to PB	USM_87637_IGM	IGHV1-18	CARDYDSSGRLDYW	IGHJ4	PB	246
56414	72	CSF exclusive	CSF-N_223_IGM	IGHV3-30	CARDEGTVAITISYFDYW	IGHJ4	CSF	8
56414	73	CSF exclusive	CSF-N_223_IGM	IGHV3-21	CARDETAAGKGSYDYW	IGHJ4	CSF	30
56414	74	Connecting to PB	CSF-N_223_IGM	IGHV1-69	CARDHGGWYNGYGMVDW	IGHJ6	CSF	1
56414	74	Connecting to PB	Naive_200000_IGM	IGHV1-69	CARDHGGWYNGYGMVDW	IGHJ6	PB	1
56414	75	CSF exclusive	CSF-N_223_IGM	IGHV4-28	CARDPDSGWPVVYFQHW	IGHJ1	CSF	146
56414	76	CSF exclusive	CSF-N_223_IGM	IGHV1-18	CARDPLDMVEGWSYYYGMDVW	IGHJ6	CSF	1
56414	76	CSF exclusive	CSF-N_223_IGM	IGHV1-18	CARDPLDMVQGSYYYGMDVW	IGHJ6	CSF	2
56414	77	CSF exclusive	CSF-N_223_IGM	IGHV4-39	CARDPRVLGAPFDYW	IGHJ4	CSF	1
56414	78	CSF exclusive	CSF-N_223_IGM	IGHV1-46	CARDPTGLDYW	IGHJ4	CSF	89
56414	79	CSF exclusive	CSF-N_223_IGM	IGHV1-18	CARDRWGERPDAFGDYW	IGHJ4	CSF	39
56414	80	Connecting to PB	CSF-N_223_IGM	IGHV7-81	CARDTPDSGSSGWYSW	IGHJ4	CSF	2
56414	80	Connecting to PB	SM_200000_IGM	IGHV7-81	CARDTPDSGSSGWYSW	IGHJ4	PB	221
56414	80	Connecting to PB	USM_87637_IGM	IGHV7-81	CARDTPDSGSSGWYSW	IGHJ4	PB	307
56414	81	CSF exclusive	CSF-N_223_IGM	IGHV3-48	CARDWATQRPDCW	IGHJ4	CSF	2
56414	81	CSF exclusive	CSF-N_223_IGM	IGHV3-48	CARDWATQRPDYW	IGHJ4	CSF	34
56414	82	Connecting to PB	CSF-N_223_IGM	IGHV1-69	CAREATMIVRLFDYW	IGHJ4	CSF	1272
56414	82	Connecting to PB	Naive_200000_IGM	IGHV1-69	CAREATMIVRLFDYW	IGHJ4	PB	1
56414	82	Connecting to PB	SM_200000_IGM	IGHV1-69	CAREATMIVRLFDYW	IGHJ4	PB	2
56414	83	CSF exclusive	CSF-N_223_IGM	IGHV3-66	CAREFRVYSGSYLVVYW	IGHJ4	CSF	1
56414	84	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CAREGAGWELRGTDYW	IGHJ4	CSF	380
56414	85	CSF exclusive	CSF-N_223_IGM	IGHV3-74	CAREGTMIVVAGWFDPW	IGHJ5	CSF	25
56414	86	CSF exclusive	CSF-N_223_IGM	IGHV3-21	CARELHVYSGSYLVVYW	IGHJ4	CSF	75
56414	87	CSF exclusive	CSF-N_223_IGM	IGHV3-66	CAREQLGSLVWGFDPW	IGHJ5	CSF	69
56414	88	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CAREYSSGWYSHFDYW	IGHJ4	CSF	70
56414	89	Connecting to PB	CSF-N_223_IGM	IGHV1-2	CARGDPITIFGVVIONYWFYDLW	IGHJ2	CSF	881
56414	89	Connecting to PB	Naive_200000_IGM	IGHV1-2	CARGDPITIFGVVIONYWFYDLW	IGHJ2	PB	5
56414	90	CSF exclusive	CSF-N_223_IGM	IGHV4-39	CARGDYGSGRPTGWFDPW	IGHJ5	CSF	144
56414	91	CSF exclusive	CSF-N_223_IGM	IGHV3-11	CARGGRDLNDAFDI W	IGHJ3	CSF	27
56414	92	CSF exclusive	CSF-N_223_IGM	IGHV4-34	CARGHSYSSSSPYDYW	IGHJ4	CSF	662
56414	93	CSF exclusive	CSF-N_223_IGM	IGHV3-66	CARGHYDSSGYFTPCYYW	IGHJ4	CSF	70
56414	94	Connecting to PB	CSF-N_223_IGM	IGHV1-3	CARGLGAPDYW	IGHJ4	CSF	144
56414	94	Connecting to PB	Naive_200000_IGM	IGHV1-3	CARGQLFDYW	IGHJ4	PB	4
56414	95	Connecting to PB	CSF-N_223_IGM	IGHV4-34	CARGLSSYWFDPW	IGHJ5	CSF	379
56414	95	Connecting to PB	SM_200000_IGM	IGHV4-34	CARGLSSYWFDPW	IGHJ5	PB	3
56414	96	Connecting to PB	CSF-N_223_IGM	IGHV4-34	CARGRQNDYW	IGHJ4	CSF	1
56414	96	Connecting to PB	Naive_200000_IGM	IGHV4-34	CARGGTVDYW	IGHJ4	PB	1
56414	96	Connecting to PB	SM_200000_IGM	IGHV4-34	CARGVVPDYW	IGHJ4	PB	2
56414	96	Connecting to PB	Naive_200000_IGM	IGHV4-34	CARLRYPDYW	IGHJ4	PB	2
56414	96	Connecting to PB	Naive_200000_IGM	IGHV4-34	CARGRTIDYW	IGHJ4	PB	3
56414	96	Connecting to PB	Naive_200000_IGM	IGHV4-34	CARGRLPDYW	IGHJ4	PB	5
56414	96	Connecting to PB	SM_200000_IGM	IGHV4-34	CARGRQNDYW	IGHJ4	PB	13
56414	96	Connecting to PB	DN_61743_IGG	IGHV4-34	CARGGTNDYW	IGHJ4	PB	46
56414	97	CSF exclusive	CSF-N_223_IGM	IGHV1-69	CARGSPAGICSGGSCYGYFDYW	IGHJ4	CSF	176
56414	98	CSF exclusive	CSF-N_223_IGM	IGHV5-51	CARHGYSAGWGNWFDPW	IGHJ5	CSF	77
56414	99	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CARHIAAGSSRNWFDPW	IGHJ5	CSF	273
56414	100	CSF exclusive	CSF-N_223_IGM	IGHV4-39	CARHIPDYDSSGSPGYW	IGHJ4	CSF	1
56414	100	CSF exclusive	CSF-N_223_IGM	IGHV4-39	CARHIPDYDSSGSPDYW	IGHJ4	CSF	265
56414	101	CSF exclusive	CSF-N_223_IGM	IGHV4-39	CARHRLGSSWYGVSYFDYW	IGHJ4	CSF	74
56414	102	Connecting to PB	CSF-N_223_IGM	IGHV4-59	CARHRYTGYEGADAFDIW	IGHJ3	CSF	1
56414	102	Connecting to PB	SM_200000_IGM	IGHV4-59	CARHRYTGYEGADAFDIW	IGHJ3	PB	4
56414	102	Connecting to PB	PC_2081_IGG	IGHV4-59	CARHRYTGYEGADAFDIW	IGHJ3	PB	21
56414	102	Connecting to PB	SM_200000_IGM	IGHV4-59	CARHRYTGYEGADAFDIW	IGHJ3	PB	521
56414	102	Connecting to PB	PC_2081_IGM	IGHV4-59	CARHRYTGYEGADAFDIW	IGHJ3	PB	1918
56414	103	CSF exclusive	CSF-N_223_IGM	IGHV2-26	CARILWELLSLENWFDPW	IGHJ5	CSF	19
56414	104	CSF exclusive	CSF-N_223_IGM	IGHV2-26	CARIRDYNGNPEYFDYW	IGHJ4	CSF	161
56414	105	CSF exclusive	CSF-N_223_IGM	IGHV5-51	CARISYDYGDDPGAGAFDIW	IGHJ3	CSF	3
56414	106	Connecting to PB	CSF-N_223_IGM	IGHV4-59	CARKRVGSGYDDAFDIR	IGHJ3	CSF	1
56414	106	Connecting to PB	CSF-N_223_IGM	IGHV4-59	CARKRVDGSDYDDAFDIW	IGHJ3	CSF	542
56414	106	Connecting to PB	SM_200000_IGM	IGHV4-59	CARKRVDGSDYDDAFDIW	IGHJ3	PB	1
56414	107	Connecting to PB	CSF-N_223_IGM	IGHV5-51	CARLETSAIAVDW	IGHJ4	CSF	1052
56414	107	Connecting to PB	USM_87637_IGM	IGHV5-51	CARLETSAIAVDW	IGHJ4	PB	1
56414	107	Connecting to PB	Naive_200000_IGM	IGHV5-51	CARLETSAIAVDW	IGHJ4	PB	2
56414	108	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CARLSPVGGYGYGMVDW	IGHJ6	CSF	3
56414	109	Connecting to PB	CSF-N_223_IGM	IGHV4-59	CARLSPVGGYGYGMVDW	IGHJ6	CSF	329
56414	109	Connecting to PB	Naive_200000_IGM	IGHV4-59	CARLSPVGGYGYGMVDW	IGHJ6	PB	1

56414	110	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CARLVPGLLFGGSIDYW	IGHJ4	CSF	9
56414	111	CSF exclusive	CSF-N_223_IGM	IGHV2-26	CARMSYGCYIFDYMDVW	IGHJ6	CSF	8
56414	112	CSF exclusive	CSF-N_223_IGM	IGHV1-3	CARMVLGRDWFYDLW	IGHJ2	CSF	1774
56414	113	CSF exclusive	CSF-N_223_IGM	IGHV1-3	CARPGIAAAGVSSSAGYFQHW	IGHJ1	CSF	285
56414	114	CSF exclusive	CSF-N_223_IGM	IGHV4-39	CARQVGEQWLVLRAFDIW	IGHJ3	CSF	451
56414	115	Connecting to PB	CSF-N_223_IGM	IGHV4-39	CARQYGYDARGGDYW	IGHJ4	CSF	1
56414	115	Connecting to PB	USM_87637_IGM	IGHV4-39	CARQYGYDARGGDYW	IGHJ4	PB	10
56414	116	CSF exclusive	CSF-N_223_IGM	IGHV5-51	CARQKQWLDYFDYW	IGHJ4	CSF	81
56414	117	CSF exclusive	CSF-N_223_IGM	IGHV5-51	CARRRGSYSYDDYW	IGHJ4	CSF	9
56414	118	CSF exclusive	CSF-N_223_IGM	IGHV4-31	CARSHPGDRTSLDYW	IGHJ4	CSF	17
56414	119	CSF exclusive	CSF-N_223_IGM	IGHV1-69	CARSPSLTVDLYYFDYW	IGHJ4	CSF	324
56414	120	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CARSVGPAAGTGYYYMDVW	IGHJ6	CSF	17
56414	121	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CARSVGPAAGTGYYYMDVW	IGHJ6	CSF	243
56414	122	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CARSVGPAAGTGYYYMDVW	IGHJ6	CSF	6
56414	123	CSF exclusive	CSF-N_223_IGM	IGHV2-70	CARTDTKDRSAYRHDTFDWW	IGHJ3	CSF	235
56414	124	Connecting to PB	CSF-N_223_IGM	IGHV6-1	CARTPYTFYWFYDLW	IGHJ2	CSF	1
56414	124	Connecting to PB	DN_61743_IGG	IGHV6-1	CAGTPYTFYWFYDLW	IGHJ2	PB	1
56414	124	Connecting to PB	Naive_200000_IGM	IGHV6-1	CARTPYTFYWFYDLW	IGHJ2	PB	1
56414	124	Connecting to PB	DN_61743_IGM	IGHV6-1	CARTPYTLLWYFDFW	IGHJ2	PB	1
56414	124	Connecting to PB	SM_200000_IGM	IGHV6-1	CARTPYTFYWFYDLW	IGHJ2	PB	2
56414	124	Connecting to PB	DN_61743_IGG	IGHV6-1	CARTPYTFYWFYDLW	IGHJ2	PB	10
56414	124	Connecting to PB	DN_61743_IGM	IGHV6-1	CARTPYTFYWFYDLW	IGHJ2	PB	2283
56414	125	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CARVDSSGWYDPW	IGHJ5	CSF	376
56414	126	CSF exclusive	CSF-N_223_IGM	IGHV3-48	CARVEGHDAFDIW	IGHJ3	CSF	58
56414	127	Connecting to PB	CSF-N_223_IGM	IGHV5-51	CARVEIAVAGWVYW	IGHJ4	CSF	354
56414	127	Connecting to PB	USM_87637_IGM	IGHV5-51	CARVPIAVAGTVYW	IGHJ4	PB	14
56414	128	CSF exclusive	CSF-N_223_IGM	IGHV1-3	CARVGYFTTDYRDDAFDIW	IGHJ3	CSF	8
56414	129	CSF exclusive	CSF-N_223_IGM	IGHV1-18	CARWDWSGYTAAYNWFDPW	IGHJ5	CSF	182
56414	130	CSF exclusive	CSF-N_223_IGM	IGHV3-53	CARWGYDSSGYWGLDYW	IGHJ4	CSF	147
56414	131	CSF exclusive	CSF-N_223_IGM	IGHV1-18	CARYGAVAGSLDSW	IGHJ4	CSF	460
56414	132	Connecting to PB	CSF-N_223_IGM	IGHV1-3	CASGEHDYGDYGMVW	IGHJ6	CSF	1213
56414	132	Connecting to PB	Naive_200000_IGM	IGHV1-3	CASGEHDYGDYGMVW	IGHJ6	PB	1
56414	133	CSF exclusive	CSF-N_223_IGM	IGHV3-30	CASSGWSLFYGMVW	IGHJ6	CSF	22
56414	134	CSF exclusive	CSF-N_223_IGM	IGHV3-30	CASSLSLVDSGYDAFDIW	IGHJ3	CSF	32
56414	135	CSF exclusive	CSF-N_223_IGM	IGHV1-24	CATEVIPDYVLYW	IGHJ4	CSF	31
56414	136	CSF exclusive	CSF-N_223_IGM	IGHV3-66	CATPHYDFWSSGYSGGRDYGMVW	IGHJ6	CSF	40
56414	137	CSF exclusive	CSF-N_223_IGM	IGHV5-51	CATQTENIDAFNVGEYFQYW	IGHJ1	CSF	139
56414	138	CSF exclusive	CSF-N_223_IGM	IGHV3-21	CATTVVTPAEAFDIW	IGHJ3	CSF	85
56414	139	CSF exclusive	CSF-N_223_IGM	IGHV4-28	CICIAAAGTSGSEYFQHW	IGHJ1	CSF	272
56414	140	CSF exclusive	CSF-N_223_IGM	IGHV4-55	CICIAAAGTSGSGYFQHW	IGHJ1	CSF	18
56414	141	CSF exclusive	CSF-N_223_IGM	IGHV4-59	CTRGAWLLITDYGGIDVW	IGHJ6	CSF	343
56414	142	CSF exclusive	CSF-N_223_IGM	IGHV3-15	CTDSDWSPTVVTGAAGYW	IGHJ4	CSF	15
56414	143	CSF exclusive	CSF-N_223_IGM	IGHV3-15	CTTRFWSGYPWAGYGGMDVW	IGHJ6	CSF	10
56414	144	CSF exclusive	CSF-N_223_IGM	IGHV3-64	CVKSSGPAAPDYGGMDVW	IGHJ6	CSF	3
56414	145	CSF exclusive	CSF-N_223_IGM	IGHV3-30	CVDRRHYGDFLLGLLW	IGHJ4	CSF	19
56414	146	Connecting to PB	CSF-SM_796_IGG	IGHV5-51	CAAGQGYSSSWHYFDSW	IGHJ4	CSF	1
56414	146	Connecting to PB	DN_61743_IGG	IGHV5-51	CAAGQGYSSSWHYFDSW	IGHJ4	PB	21
56414	147	Connecting to PB	CSF-SM_796_IGG	IGHV1-3	CAAI VGATSW	IGHJ4	CSF	1
56414	147	Connecting to PB	Naive_200000_IGM	IGHV1-3	CAAI VGATNW	IGHJ4	PB	1
56414	147	Connecting to PB	Naive_200000_IGM	IGHV1-3	CAAI VGATSW	IGHJ4	PB	14
56414	148	CSF exclusive	CSF-SM_796_IGG	IGHV3-30	CAEDGHDYCDYLIGLAYFDYW	IGHJ4	CSF	1
56414	148	CSF exclusive	CSF-SM_796_IGG	IGHV3-30	CAKDGHDYGDYLIGLAYTDYW	IGHJ4	CSF	1
56414	148	CSF exclusive	CSF-SM_796_IGG	IGHV3-30	CAKDGHDYGDYLIGLAYFDYW	IGHJ4	CSF	105
56414	149	Connecting to PB	CSF-SM_796_IGG	IGHV4-59	CAGGRTHCTGGVCLWYGGVDVW	IGHJ6	CSF	4
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGGRTYCTSGVCLHYYHGVDVW	IGHJ6	PB	1
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGGWYCTSGVCLHYYHGVDVW	IGHJ6	PB	1
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGGRTYCTGGVCLWYGGVDVW	IGHJ6	PB	2
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGARTYCTGGVCLDYGGVDVW	IGHJ6	PB	7
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGGRTYCTGGVCLWYGGVDVW	IGHJ6	PB	8
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGGRTYCTSGVCLHYYHGVDVW	IGHJ6	PB	12
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGGRTHCTGGVCLWYGGVDVW	IGHJ6	PB	14
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGGRTYCTGGVCLWYGGVDVW	IGHJ6	PB	21
56414	149	Connecting to PB	SM_200000_IGG	IGHV4-59	CAGGRTYCSGGVCLWYGGVDVW	IGHJ6	PB	32
56414	150	Connecting to PB	CSF-SM_796_IGG	IGHV3-23	CAKDQPYGTGWYGCSAHW	IGHJ4	CSF	1
56414	150	Connecting to PB	SM_200000_IGG	IGHV3-23	CTKDQPYGTGWYGC SVHW	IGHJ4	PB	1
56414	150	Connecting to PB	SM_200000_IGG	IGHV3-23	CARDQPYGTGWYGC SAFW	IGHJ4	PB	6
56414	151	Connecting to PB	CSF-SM_796_IGG	IGHV3-23	CAKVGSWFGDYGGMDVW	IGHJ6	CSF	20
56414	151	Connecting to PB	SM_200000_IGG	IGHV3-23	CAKVGSWFGDYGGMDVW	IGHJ6	PB	15
56414	152	Connecting to PB	CSF-SM_796_IGG	IGHV4-31	CARANIAARSVDYW	IGHJ4	CSF	16
56414	152	Connecting to PB	PC_2081_IGG	IGHV4-31	CARANIAARSVDYW	IGHJ4	PB	1
56414	152	Connecting to PB	SM_200000_IGG	IGHV4-31	CARANIAARSM DYW	IGHJ4	PB	4
56414	152	Connecting to PB	SM_200000_IGG	IGHV4-31	CARANVAARSM DYW	IGHJ4	PB	7
56414	152	Connecting to PB	SM_200000_IGG	IGHV4-31	C'FRANIAARSMDFW	IGHJ4	PB	35
56414	153	CSF exclusive	CSF-SM_796_IGG	IGHV4-59	CARARQQLDRW	IGHJ5	CSF	7
56414	154	Connecting to PB	CSF-SM_796_IGM	IGHV4-31	CARDLPPSGANAFDIW	IGHJ3	CSF	2
56414	154	Connecting to PB	CSF-SM_796_IGG	IGHV4-31	CARDLPPSGANAFDIW	IGHJ3	CSF	3377
56414	154	Connecting to PB	SM_200000_IGG	IGHV4-31	CARDLPPSGANAFDFW	IGHJ3	PB	25
56414	154	Connecting to PB	DN_61743_IGG	IGHV4-31	CARDLPPSGANAFDFW	IGHJ3	PB	30
56414	154	Connecting to PB	DN_61743_IGG	IGHV4-31	CARDLPPSSANAFDIW	IGHJ3	PB	71
56414	154	Connecting to PB	DN_61743_IGG	IGHV4-31	CARDLPPSGANAFDIW	IGHJ3	PB	129
56414	154	Connecting to PB	SM_200000_IGG	IGHV4-31	CARDLPPSGANAFDIW	IGHJ3	PB	187
56414	155	Connecting to PB	CSF-SM_796_IGG	IGHV3-74	CAREALDLWSGYTSHYYYYIDVW	IGHJ6	CSF	5
56414	155	Connecting to PB	SM_200000_IGG	IGHV3-74	CAREALDLWSGYTSHYYYYIDVW	IGHJ6	PB	4
56414	156	Connecting to PB	CSF-SM_796_IGG	IGHV4-59	CARENRSWYGNAFDIW	IGHJ4	CSF	566
56414	156	Connecting to PB	DN_61743_IGG	IGHV4-59	CARENRSWYGNAFDIW	IGHJ4	PB	10

56414	157	CSF exclusive	CSF-SM_796_IGG	IGHV4-59	CARENRSYGHAFDPW	IGHJ2	CSF	2
56414	158	Connecting to PB	CSF-SM_796_IGG	IGHV3-30	CARERCSGGDCYADLW	IGHJ5	CSF	3
56414	158	Connecting to PB	SM_200000_IGG	IGHV3-30	CARERCSGGDCYADLW	IGHJ5	PB	9
56414	159	Connecting to PB	CSF-SM_796_IGG	IGHV4-59	CAREYSSFDYW	IGHJ4	CSF	13
56414	159	Connecting to PB	SM_200000_IGM	IGHV4-59	CAREYSSSDYW	IGHJ4	PB	1
56414	159	Connecting to PB	SM_200000_IGG	IGHV4-59	CAREYSSFDYW	IGHJ4	PB	27
56414	159	Connecting to PB	SM_200000_IGG	IGHV4-59	CAREYSSSDYW	IGHJ4	PB	43
56414	160	Connecting to PB	CSF-SM_796_IGG	IGHV6-1	CARGFHNAFDIW	IGHJ3	CSF	1
56414	160	Connecting to PB	CSF-SM_796_IGM	IGHV6-1	CARGRSSAFDIW	IGHJ3	CSF	314
56414	160	Connecting to PB	SM_200000_IGM	IGHV6-1	CARGQWTAFDIW	IGHJ3	PB	1
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGRDSAFDVW	IGHJ3	PB	2
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARVIHSGFDIW	IGHJ3	PB	2
56414	160	Connecting to PB	SM_200000_IGM	IGHV6-1	CVRGQWTAFDIW	IGHJ3	PB	2
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CAGGARSAFDIW	IGHJ3	PB	3
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CVRGQHSADFIDW	IGHJ3	PB	8
56414	160	Connecting to PB	PC_2081_IGM	IGHV6-1	CARGFHNAFDIW	IGHJ3	PB	20
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CAGGTRSAFDIW	IGHJ3	PB	35
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGSMSAFDIW	IGHJ3	PB	35
56414	160	Connecting to PB	USM_87637_IGM	IGHV6-1	CVRGKYSADFIDW	IGHJ3	PB	35
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGIHSGFIDW	IGHJ3	PB	36
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGIWNADFIDW	IGHJ3	PB	36
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGRDSAFDIW	IGHJ3	PB	54
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGQWTAFDVW	IGHJ3	PB	59
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGRRNAFDIW	IGHJ3	PB	59
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGRHNAFDIW	IGHJ3	PB	64
56414	160	Connecting to PB	DN_61743_IGG	IGHV6-1	CVRGQWTAFDIW	IGHJ3	PB	65
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGTHSAFDVW	IGHJ3	PB	69
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGQYTAFDIW	IGHJ3	PB	85
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CVRGQHSADFIDW	IGHJ3	PB	91
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGIHNAFDIW	IGHJ3	PB	113
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGQWTAFNIDW	IGHJ3	PB	127
56414	160	Connecting to PB	DN_61743_IGG	IGHV6-1	CARGRDNAFDIW	IGHJ3	PB	139
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGINSADFIDW	IGHJ3	PB	145
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CANGAKSAFDIW	IGHJ3	PB	166
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGIWNTFDIW	IGHJ3	PB	174
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGGNYADFIDW	IGHJ3	PB	183
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGIRNGFDLW	IGHJ3	PB	189
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGTHSAFDIW	IGHJ3	PB	197
56414	160	Connecting to PB	SM_200000_IGM	IGHV6-1	CARGIWNADFIDW	IGHJ3	PB	201
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGRSSAFDIW	IGHJ3	PB	204
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CASGRSSGFIDW	IGHJ3	PB	204
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGKWTAFDIW	IGHJ3	PB	214
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGRNSAFDIW	IGHJ3	PB	289
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGQWTAFDIW	IGHJ3	PB	379
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGINNGFDVW	IGHJ3	PB	407
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGRDNAFDIW	IGHJ3	PB	420
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CVRGQWSADFIDW	IGHJ3	PB	451
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CARGTRSAFDIW	IGHJ3	PB	490
56414	160	Connecting to PB	SM_200000_IGG	IGHV6-1	CVRGQWTAFDIW	IGHJ3	PB	1165
56414	160	Connecting to PB	PC_2081_IGG	IGHV6-1	CARGFHNAFDIW	IGHJ3	PB	31271
56414	161	CSF exclusive	CSF-SM_796_IGG	IGHV1-2	CARRGRGVAATPQYYYYYFMDVW	IGHJ6	CSF	4
56414	161	CSF exclusive	CSF-SM_796_IGG	IGHV1-2	CARRGRGVAATPQYYYYYFMDVW	IGHJ6	CSF	138
56414	162	Connecting to PB	CSF-SM_796_IGG	IGHV1-3	CARGGVDGPPPW	IGHJ5	CSF	1
56414	162	Connecting to PB	DN_61743_IGG	IGHV1-3	CARGGVDGPPPW	IGHJ5	PB	1
56414	162	Connecting to PB	USM_87637_IGM	IGHV1-3	CARGGVDGPPPW	IGHJ5	PB	87
56414	162	Connecting to PB	SM_200000_IGM	IGHV1-3	CARGGVDGPPPW	IGHJ5	PB	130
56414	162	Connecting to PB	PC_2081_IGG	IGHV1-3	CARGGVDGPPPW	IGHJ5	PB	614
56414	162	Connecting to PB	SM_200000_IGG	IGHV1-3	CARGGVDGPPPW	IGHJ5	PB	14652
56414	163	CSF exclusive	CSF-SM_796_IGG	IGHV4-34	CARGNSYNSDWAADSNNYYYYYMDVW	IGHJ6	CSF	21
56414	164	CSF exclusive	CSF-SM_796_IGG	IGHV4-34	CARGNSYNSDWAADSNNYYYYYMDVW	IGHJ6	CSF	281
56414	165	CSF exclusive	CSF-SM_796_IGG	IGHV4-34	CARGPGLLHTYFDVW	IGHJ4	CSF	101
56414	166	CSF exclusive	CSF-SM_796_IGG	IGHV4-34	CARGPGLQTYFDVW	IGHJ6	CSF	1
56414	167	Connecting to PB	CSF-SM_796_IGG	IGHV3-74	CARGQGAAVW	IGHJ4	CSF	4
56414	167	Connecting to PB	SM_200000_IGG	IGHV3-74	CARGQGAAVW	IGHJ4	PB	4
56414	168	CSF exclusive	CSF-SM_796_IGG	IGHV1-69	CARGRHYDSTTYSDDFW	IGHJ4	CSF	18
56414	169	CSF exclusive	CSF-SM_796_IGG	IGHV3-30	CARGTRIAAAGIFDIW	IGHJ4	CSF	183
56414	170	Connecting to PB	CSF-SM_796_IGG	IGHV4-39	CARHQYGDGFIDW	IGHJ3	CSF	12
56414	170	Connecting to PB	SM_200000_IGG	IGHV4-39	CARHQYGDGFIDW	IGHJ3	PB	1
56414	170	Connecting to PB	SM_200000_IGG	IGHV4-39	CARHQYGYGFIDW	IGHJ3	PB	1
56414	170	Connecting to PB	SM_200000_IGG	IGHV4-39	CARHQYGDGFIDW	IGHJ3	PB	59
56414	171	CSF exclusive	CSF-SM_796_IGG	IGHV4-39	CARHSGFSYYYYYMDVW	IGHJ6	CSF	10
56414	172	CSF exclusive	CSF-SM_796_IGG	IGHV3-53	CARIYRDFDHTGFSFPLDIW	IGHJ4	CSF	1
56414	173	Connecting to PB	CSF-SM_796_IGG	IGHV1-18	CARKMVADYW	IGHJ4	CSF	3
56414	173	Connecting to PB	SM_200000_IGG	IGHV1-18	CARKMVADHW	IGHJ4	PB	25
56414	173	Connecting to PB	SM_200000_IGG	IGHV1-18	CARKMVADYW	IGHJ4	PB	27
56414	174	Connecting to PB	CSF-SM_796_IGG	IGHV2-26	CARLNEDLLVNAFDIW	IGHJ3	CSF	1
56414	174	Connecting to PB	SM_200000_IGG	IGHV2-26	CARINEDLLVNAFDIW	IGHJ3	PB	43
56414	175	CSF exclusive	CSF-SM_796_IGG	IGHV4-59	CARMRYNSGFVHWYFDLW	IGHJ2	CSF	5
56414	176	Connecting to PB	CSF-SM_796_IGG	IGHV4-39	CARRPQTFYDITIGHEYFDYW	IGHJ4	CSF	1
56414	176	Connecting to PB	DN_61743_IGG	IGHV4-39	CARRPQTFYDITIGHEYFDYW	IGHJ4	PB	2606
56414	177	Connecting to PB	CSF-SM_796_IGG	IGHV3-48	CARSGATSSSTLIDYW	IGHJ4	CSF	260
56414	177	Connecting to PB	PC_2081_IGG	IGHV3-48	CARSGATSSSTLIDYW	IGHJ4	PB	416
56414	178	Connecting to PB	CSF-SM_796_IGG	IGHV4-39	CARSSWFYFDPL	IGHJ2	CSF	9
56414	178	Connecting to PB	CSF-SM_796_IGG	IGHV4-39	CARSGWFYFDPW	IGHJ2	CSF	945
56414	178	Connecting to PB	CSF-SM_796_IGG	IGHV4-39	CARSSWFYFDPW	IGHJ2	CSF	2626

56414	178	Connecting to PB	PC_2081_IGG	IGHV4-39	CARSSWFYFDPW	IGHJ2	PB	1
56414	178	Connecting to PB	SM_200000_IGG	IGHV4-39	CARSSWFHFDPW	IGHJ2	PB	6
56414	178	Connecting to PB	DN_61743_IGG	IGHV4-39	CARSSWFYFDPW	IGHJ2	PB	15
56414	178	Connecting to PB	SM_200000_IGG	IGHV4-39	CARSGWFYFDPW	IGHJ2	PB	44
56414	178	Connecting to PB	SM_200000_IGG	IGHV4-39	CARSSWFYFDPW	IGHJ2	PB	103
56414	179	Connecting to PB	CSF-SM_796_IGG	IGHV2-70	CARTVLGSSHQRDTYW	IGHJ4	CSF	17
56414	179	Connecting to PB	PC_2081_IGG	IGHV2-70	CARTVLGSSHQRDTYW	IGHJ4	PB	1
56414	179	Connecting to PB	SM_200000_IGM	IGHV2-70	CARTVLGSSHQRDTYW	IGHJ4	PB	2
56414	179	Connecting to PB	SM_200000_IGG	IGHV2-70	CARAVLGGSHQRDTYW	IGHJ4	PB	18
56414	179	Connecting to PB	DN_61743_IGG	IGHV2-70	CARTVLGSSHQRDTYW	IGHJ4	PB	228
56414	179	Connecting to PB	SM_200000_IGG	IGHV2-70	CARTVLGSSHQRDTYW	IGHJ4	PB	270
56414	180	CSF exclusive	CSF-SM_796_IGG	IGHV3-66	CARVADSSGWYTSYD	IGHJ4	CSF	2
56414	181	Connecting to PB	CSF-SM_796_IGG	IGHV3-7	CATDPPQHW	IGHJ4	CSF	9
56414	181	Connecting to PB	SM_200000_IGG	IGHV3-7	CATDPPQHW	IGHJ4	PB	22
56414	182	Connecting to PB	CSF-SM_796_IGG	IGHV1-24	CATHPIVVAGIFDYW	IGHJ4	CSF	205
56414	182	Connecting to PB	SM_200000_IGG	IGHV1-24	CATHPIVAVAGIFDYW	IGHJ4	PB	49
56414	182	Connecting to PB	SM_200000_IGG	IGHV1-24	CATHPIVVAGIFDYW	IGHJ4	PB	79
56414	183	Connecting to PB	CSF-SM_796_IGG	IGHV1-24	CATHPVTVATIFDYW	IGHJ4	CSF	24
56414	183	Connecting to PB	SM_200000_IGG	IGHV1-24	CATHPVTVATIFDYW	IGHJ4	PB	20
56414	184	Connecting to PB	CSF-SM_796_IGG	IGHV3-30	CGRDPGYSTPLGYLQHW	IGHJ1	CSF	1
56414	184	Connecting to PB	SM_200000_IGM	IGHV3-30	CGRDPGYSTPLGYLQHW	IGHJ1	PB	22
56414	185	Connecting to PB	CSF-SM_796_IGG	IGHV3-74	CVRERDAYYNSGFDPW	IGHJ5	CSF	1555
56414	185	Connecting to PB	SM_200000_IGG	IGHV3-74	CARERDPYYNSGFDPW	IGHJ5	PB	5
56414	185	Connecting to PB	DN_61743_IGG	IGHV3-74	CVRERDPYYNSGFDPW	IGHJ5	PB	26
56414	185	Connecting to PB	SM_200000_IGG	IGHV3-74	CVRERDPYYNSGFDPW	IGHJ5	PB	31
56414	185	Connecting to PB	SM_200000_IGG	IGHV3-74	CVRERDAYYNSGFDPW	IGHJ5	PB	50
56414	186	Connecting to PB	CSF-SM_796_IGM	IGHV3-23	CAKDLIELYSGSNYPHYWFFDLW	IGHJ2	CSF	12
56414	186	Connecting to PB	USM_87637_IGM	IGHV3-23	CAKDLIELYSGSNYPHYWFFDLW	IGHJ2	PB	4
56414	187	CSF exclusive	CSF-SM_796_IGM	IGHV1-46	CAKRIKVPGHDAFDVW	IGHJ3	CSF	51
56414	188	CSF exclusive	CSF-SM_796_IGM	IGHV4-55	CAMQPQVREGAFDIW	IGHJ3	CSF	1
56414	189	CSF exclusive	CSF-SM_796_IGM	IGHV3-74	CARAVGITDAFDIW	IGHJ3	CSF	19
56414	190	Connecting to PB	CSF-SM_796_IGM	IGHV4-31	CARERDHW	IGHJ4	CSF	56
56414	190	Connecting to PB	SM_200000_IGG	IGHV4-31	CARDRDYW	IGHJ4	PB	2
56414	190	Connecting to PB	SM_200000_IGG	IGHV4-31	CARERDSW	IGHJ4	PB	2
56414	190	Connecting to PB	USM_87637_IGM	IGHV4-31	CARAPDYW	IGHJ4	PB	10
56414	190	Connecting to PB	USM_87637_IGM	IGHV4-31	CARDRDYW	IGHJ4	PB	10
56414	190	Connecting to PB	DN_61743_IGG	IGHV4-31	CAREFDYW	IGHJ4	PB	10
56414	190	Connecting to PB	USM_87637_IGM	IGHV4-31	CARERDFW	IGHJ4	PB	10
56414	190	Connecting to PB	SM_200000_IGM	IGHV4-31	CARDRDYW	IGHJ4	PB	102
56414	191	Connecting to PB	CSF-SM_796_IGM	IGHV4-34	CARGATMIVGREDWFDPW	IGHJ5	CSF	46
56414	191	Connecting to PB	USM_87637_IGM	IGHV4-34	CARGATMIVGREDWFDPW	IGHJ5	PB	17
56414	192	CSF exclusive	CSF-SM_796_IGM	IGHV1-3	CARGIWSGTSMLYLDWS	IGHJ4	CSF	68
56414	193	CSF exclusive	CSF-SM_796_IGM	IGHV5-51	CARLPSYGDYDHTYFDYW	IGHJ4	CSF	11
56414	194	CSF exclusive	CSF-SM_796_IGM	IGHV4-39	CARLSDYSDTGGHYWYFDLW	IGHJ2	CSF	1
56414	195	Connecting to PB	CSF-SM_796_IGM	IGHV4-59	CARRDSNGYIYW	IGHJ4	CSF	38
56414	195	Connecting to PB	USM_87637_IGM	IGHV4-59	CARRDNNGYIYW	IGHJ4	PB	3
56414	195	Connecting to PB	USM_87637_IGM	IGHV4-59	CARRDSNGYIHW	IGHJ4	PB	3
56414	195	Connecting to PB	USM_87637_IGM	IGHV4-59	CARRDSTGYYSYW	IGHJ4	PB	8
56414	195	Connecting to PB	USM_87637_IGM	IGHV4-59	CARRDNNGYIIFW	IGHJ4	PB	10
56414	196	Connecting to PB	CSF-SM_796_IGM	IGHV2-5	CTHRQKGTGTMDVW	IGHJ6	CSF	163
56414	196	Connecting to PB	Naive_200000_IGM	IGHV2-5	CTHRQKGTGTMDVW	IGHJ6	PB	2
56414	197	Connecting to PB	CSF-SM_796_IGM	IGHV3-74	CTRDLYGIDHW	IGHJ4	CSF	10
56414	197	Connecting to PB	SM_200000_IGG	IGHV3-74	CTRDLYGIDHW	IGHJ4	PB	3
56414	197	Connecting to PB	SM_200000_IGM	IGHV3-74	CTRDLYGIDHW	IGHJ4	PB	14
56414	198	CSF exclusive	CSF-SM_796_IGM	IGHV3-53	CTRGLDINDHW	IGHJ4	CSF	7
56414	199	CSF exclusive	CSF-SM_796_IGM	IGHV3-23	CTRGPDINDHW	IGHJ4	CSF	1
56414	200	CSF exclusive	CSF-SM_796_IGM	IGHV3-74	CVRGGDWGSFDYW	IGHJ4	CSF	27
56514	1	Connecting to PB	CSF-DN_89_IGG	IGHV3-23	CAKAPLETCTSGARCYLDHW	IGHJ4	CSF	1
56514	1	Connecting to PB	USM_89486_IGM	IGHV3-23	CAKAPLETCTGSRRCYLDHW	IGHJ4	PB	1
56514	1	Connecting to PB	USM_89486_IGM	IGHV3-23	CAKAPLETCTGVRCHYLDHW	IGHJ4	PB	1
56514	1	Connecting to PB	SM_188264_IGG	IGHV3-23	CAKAPLESCSGSRRCYLDHW	IGHJ4	PB	2
56514	1	Connecting to PB	PC_1001_IGG	IGHV3-23	CAKAPLETCTGARCYLDHW	IGHJ4	PB	2
56514	1	Connecting to PB	SM_188264_IGG	IGHV3-23	CAKAPLESCSGSRRCYLDHW	IGHJ4	PB	4
56514	1	Connecting to PB	PC_1001_IGM	IGHV3-23	CTKAPLETCTGVRRCYLDHW	IGHJ4	PB	4
56514	1	Connecting to PB	PC_1001_IGG	IGHV3-23	CAKAPLETCTGVRRCYLDHW	IGHJ4	PB	5
56514	1	Connecting to PB	SM_188264_IGG	IGHV3-23	CAKAPLESCSGSRRCYLDHW	IGHJ4	PB	6
56514	1	Connecting to PB	SM_188264_IGG	IGHV3-23	CAKAPLETCTGARCYLDHW	IGHJ4	PB	7
56514	1	Connecting to PB	PC_1001_IGG	IGHV3-23	CAKAPLETCTGSRRCYLDHW	IGHJ4	PB	17
56514	1	Connecting to PB	PC_1001_IGM	IGHV3-23	CAKAPLETCTGARCYLDHW	IGHJ4	PB	68
56514	1	Connecting to PB	PC_1001_IGM	IGHV3-23	CAKAPLETCTGVRRCYLDHW	IGHJ4	PB	498
56514	1	Connecting to PB	PC_1001_IGM	IGHV3-23	CAKAPLETCTGSRRCYLDHW	IGHJ4	PB	2050
56514	1	Connecting to PB	PC_1001_IGG	IGHV3-23	CAKAPLETCTGSRRCYLDHW	IGHJ4	PB	2865
56514	2	Connecting to PB	CSF-DN_89_IGG	IGHV3-23	CAKTPHSSGWYGLYDYW	IGHJ4	CSF	1
56514	2	Connecting to PB	SM_188264_IGG	IGHV3-23	CAKTPHSSGWYGLYDYW	IGHJ4	PB	7
56514	3	Connecting to PB	CSF-SM_1022_IGG	IGHV1-46	RARTLGYGMDVW	IGHJ6	CSF	2
56514	3	Connecting to PB	CSF-SM_1022_IGG	IGHV1-46	CARALGYGMDVW	IGHJ6	CSF	1052
56514	3	Connecting to PB	CSF-DN_89_IGG	IGHV1-46	CARALGYGMDVW	IGHJ6	CSF	10150
56514	3	Connecting to PB	PC_1001_IGG	IGHV1-46	CARALGYGMDVW	IGHJ6	PB	2
56514	3	Connecting to PB	DN_35706_IGG	IGHV1-46	CARALGYGMDVW	IGHJ6	PB	3
56514	3	Connecting to PB	SM_188264_IGG	IGHV1-46	CARALGYGMDVW	IGHJ6	PB	171
56514	4	CSF exclusive	CSF-SM_1022_IGG	IGHV1-46	CARDELGLKFDYW	IGHJ1	CSF	243
56514	4	CSF exclusive	CSF-DN_89_IGG	IGHV1-46	CARDELGLKFDYW	IGHJ1	CSF	1024
56514	5	Connecting to PB	CSF-DN_89_IGG	IGHV1-69	CARDLRGPGVW	IGHJ5	CSF	620
56514	5	Connecting to PB	PC_1001_IGG	IGHV1-69	CARDLRGPGVW	IGHJ5	PB	2
56514	5	Connecting to PB	SM_188264_IGG	IGHV1-69	CARDLRGPGVW	IGHJ5	PB	2

56514	5	Connecting to PB	DN_35706_IGG	IGHV1-69	CARDPRGPGVW	IGHJ5	PB	2
56514	5	Connecting to PB	DN_35706_IGG	IGHV1-69	CARDLRGPGVW	IGHJ5	PB	53
56514	6	CSF exclusive	CSF-DN_89_IGG	IGHV4-34	CARGQVAGIVAGVVNW	IGHJ4	CSF	357
56514	7	Connecting to PB	CSF-SM_1022_IGG	IGHV3-23	CVSPSAGW	IGHJ5	CSF	1
56514	7	Connecting to PB	CSF-DN_89_IGG	IGHV3-23	CASPSAGW	IGHJ5	CSF	72
56514	7	Connecting to PB	CSF-SM_1022_IGG	IGHV3-23	CASPSAGW	IGHJ5	CSF	72
56514	7	Connecting to PB	SM_188264_IGG	IGHV3-23	CASPSAGW	IGHJ5	PB	15
56514	8	CSF exclusive	CSF-DN_89_IGG	IGHV2-70	CIGSLGPTTFFDDAFEIW	IGHJ3	CSF	98
56514	9	CSF exclusive	CSF-N_190_IGM	IGHV1-58	CAALPPDYGDYLVVW	IGHJ4	CSF	1
56514	9	CSF exclusive	CSF-N_190_IGM	IGHV1-58	CAALLPDYGDYLVVW	IGHJ4	CSF	12
56514	10	CSF exclusive	CSF-N_190_IGM	IGHV1-58	CAAPRPEMATSPLDYW	IGHJ4	CSF	5
56514	11	CSF exclusive	CSF-N_190_IGM	IGHV3-11	CAGTEAAPLNWYFDLW	IGHJ2	CSF	54
56514	12	Connecting to PB	CSF-N_190_IGM	IGHV2-5	CAHIALYSSGYWYPYW	IGHJ4	CSF	1229
56514	12	Connecting to PB	USM_89486_IGM	IGHV2-5	CAHIALYSSGYWYPYW	IGHJ4	PB	34
56514	13	CSF exclusive	CSF-N_190_IGM	IGHV3-23	CAKASDIVVDRWFDPW	IGHJ5	CSF	47
56514	14	CSF exclusive	CSF-N_190_IGM	IGHV3-23	CAKCKNDFDDAFDIW	IGHJ3	CSF	162
56514	15	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CAKDSQSGYRIYFFDYW	IGHJ4	CSF	1
56514	15	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CAKDSQSGYRIYFLDYW	IGHJ4	CSF	7
56514	16	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CAKDSYDILPFYGMVDVW	IGHJ6	CSF	49
56514	17	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CAKEQKHSGSFDYW	IGHJ4	CSF	8
56514	18	CSF exclusive	CSF-N_190_IGM	IGHV3-23	CAKGESGMNYW	IGHJ4	CSF	40
56514	19	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CAKGYFDYYGMVDVW	IGHJ6	CSF	46
56514	20	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CAKGLDTPTDYW	IGHJ4	CSF	1
56514	21	CSF exclusive	CSF-N_190_IGM	IGHV3-23	CAKIGGRGYSYGDSYW	IGHJ4	CSF	70
56514	22	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CAKPYDSSAYLDYW	IGHJ4	CSF	10
56514	23	CSF exclusive	CSF-N_190_IGM	IGHV3-23	CAKRRCSGGSCYGDHYGMVDVW	IGHJ6	CSF	89
56514	24	CSF exclusive	CSF-N_190_IGM	IGHV3-23	CAKTGPPYTSGLWDYW	IGHJ4	CSF	67
56514	25	CSF exclusive	CSF-N_190_IGM	IGHV3-23	CANLGATQDYW	IGHJ4	CSF	153
56514	26	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CANQHSSGRLPDYW	IGHJ4	CSF	2
56514	26	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CANQHSSGWLDPDYW	IGHJ4	CSF	19
56514	27	Connecting to PB	CSF-N_190_IGM	IGHV4-39	CAQSRDGYNSLHYW	IGHJ4	CSF	1
56514	27	Connecting to PB	USM_89486_IGM	IGHV4-39	CAQSGDGYNSLHYW	IGHJ4	PB	1
56514	27	Connecting to PB	PC_1001_IGM	IGHV4-39	CARSRDGYNSLHYW	IGHJ4	PB	1
56514	27	Connecting to PB	PC_1001_IGG	IGHV4-39	CVQSRDGHNSLHYW	IGHJ4	PB	1
56514	27	Connecting to PB	USM_89486_IGM	IGHV4-39	RAQSRDGYNSLHYW	IGHJ4	PB	1
56514	27	Connecting to PB	SM_188264_IGM	IGHV4-39	CAQSRDGYNSLHYW	IGHJ4	PB	4
56514	27	Connecting to PB	USM_89486_IGM	IGHV4-39	CAQSRDGYNSLHYW	IGHJ4	PB	14
56514	27	Connecting to PB	PC_1001_IGG	IGHV4-39	CAQSRDGYNSLHYW	IGHJ4	PB	54
56514	27	Connecting to PB	PC_1001_IGM	IGHV4-39	CAQSRDGYNSLHYW	IGHJ4	PB	9726
56514	28	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CARAGREFWSSGYTTHW	IGHJ5	CSF	335
56514	29	CSF exclusive	CSF-N_190_IGM	IGHV4-55	CARDALSYGDYGGLEDYW	IGHJ4	CSF	731
56514	30	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CARDGFINHDYGYGMVDVW	IGHJ6	CSF	8
56514	31	CSF exclusive	CSF-N_190_IGM	IGHV1-3	CARDGTNWAYLYW	IGHJ4	CSF	1
56514	31	CSF exclusive	CSF-N_190_IGM	IGHV1-3	CVRDGTNWASDYW	IGHJ4	CSF	1
56514	31	CSF exclusive	CSF-N_190_IGM	IGHV1-3	CARDGTNWAYLDYW	IGHJ4	CSF	13
56514	31	CSF exclusive	CSF-N_190_IGM	IGHV1-3	CARDGTNWAYFDYW	IGHJ4	CSF	322
56514	32	CSF exclusive	CSF-N_190_IGM	IGHV3-48	CARDGWLRFDYW	IGHJ4	CSF	58
56514	33	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CARDLGYCSGGSCYSYGMVDVW	IGHJ6	CSF	62
56514	34	CSF exclusive	CSF-N_190_IGM	IGHV1-18	CARDPTGWELLNDAFDIW	IGHJ3	CSF	157
56514	35	Connecting to PB	CSF-N_190_IGM	IGHV1-46	CARDRDNGMDVW	IGHJ6	CSF	235
56514	35	Connecting to PB	Naive_290198_IGM	IGHV1-46	CARDWENGMDVW	IGHJ6	PB	2
56514	36	CSF exclusive	CSF-N_190_IGM	IGHV1-46	CARDRDSGSTPEWDYW	IGHJ4	CSF	83
56514	37	CSF exclusive	CSF-N_190_IGM	IGHV3-48	CARDRTVDTAIPALRFPDW	IGHJ5	CSF	23
56514	38	CSF exclusive	CSF-N_190_IGM	IGHV1-46	CARDSDSGGINYGMVDVW	IGHJ6	CSF	233
56514	39	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CARDTRSLALDYW	IGHJ4	CSF	54
56514	40	CSF exclusive	CSF-N_190_IGM	IGHV1-3	CARDWKSLLWFRSSGWFDPW	IGHJ5	CSF	1077
56514	41	CSF exclusive	CSF-N_190_IGM	IGHV3-53	CARDYDSSGYFNYGMDVW	IGHJ6	CSF	61
56514	42	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CARGMNYDSYGLDVW	IGHJ6	CSF	3
56514	42	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CAREMNYDSYGLDVW	IGHJ6	CSF	32
56514	43	CSF exclusive	CSF-N_190_IGM	IGHV3-48	CAREMVRGSHMGARGSIGYW	IGHJ4	CSF	111
56514	44	CSF exclusive	CSF-N_190_IGM	IGHV3-53	CARESGSFDYW	IGHJ4	CSF	10
56514	45	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CAREVLRSGPGVPDWYFDLW	IGHJ2	CSF	1
56514	45	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CAREVLWFGPGVPDWYFDLW	IGHJ2	CSF	63
56514	46	CSF exclusive	CSF-N_190_IGM	IGHV4-34	CARGKRDDYNLRPNWFDPW	IGHJ5	CSF	1
56514	46	CSF exclusive	CSF-N_190_IGM	IGHV4-34	CARGKRDGYNLRPNWFDPW	IGHJ5	CSF	112
56514	47	CSF exclusive	CSF-N_190_IGM	IGHV4-34	CARGLRQQLVRCYYYGMDIW	IGHJ6	CSF	1
56514	47	CSF exclusive	CSF-N_190_IGM	IGHV4-34	CARGLRQQLVRYYYGMDIW	IGHJ6	CSF	1
56514	47	CSF exclusive	CSF-N_190_IGM	IGHV4-34	CARGLRQQLVRYYYGMDVW	IGHJ6	CSF	277
56514	48	CSF exclusive	CSF-N_190_IGM	IGHV4-34	CARGLRQQLVRYYYGMDVW	IGHJ6	CSF	4
56514	49	CSF exclusive	CSF-N_190_IGM	IGHV1-18	CARGSYGSPDDAFDIW	IGHJ3	CSF	339
56514	50	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CARGVIGAGSWLDPW	IGHJ5	CSF	1
56514	50	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CARGVIGTGSWLDPW	IGHJ5	CSF	11
56514	50	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CARGVIGTGSWFDPW	IGHJ5	CSF	228
56514	51	CSF exclusive	CSF-N_190_IGM	IGHV1-69	CARGYDSSGYNYYSFFHYW	IGHJ4	CSF	52
56514	52	CSF exclusive	CSF-N_190_IGM	IGHV5-51	RARHKGIDQGDYGMVDVW	IGHJ6	CSF	1
56514	52	CSF exclusive	CSF-N_190_IGM	IGHV5-51	CARHKGIDQGDYGMVDVW	IGHJ6	CSF	17
56514	53	CSF exclusive	CSF-N_190_IGM	IGHV4-39	CARHLAVRDWNYYYGMDVW	IGHJ6	CSF	49
56514	54	CSF exclusive	CSF-N_190_IGM	IGHV4-39	CARHPSSSNYFDYW	IGHJ4	CSF	41
56514	55	CSF exclusive	CSF-N_190_IGM	IGHV1-69	CARIGQLNAPDIW	IGHJ3	CSF	36
56514	56	CSF exclusive	CSF-N_190_IGM	IGHV2-70	CARIRVWSSGYFGDAFDIW	IGHJ3	CSF	473
56514	57	CSF exclusive	CSF-N_190_IGM	IGHV2-70	CARISMYGGANIDYW	IGHJ4	CSF	128
56514	58	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CARLGVAGPYW	IGHJ4	CSF	1
56514	58	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CARLGVAGPDYW	IGHJ4	CSF	75
56514	59	CSF exclusive	CSF-N_190_IGM	IGHV4-59	CARLLGDDWFDPW	IGHJ5	CSF	74

56514	60	CSF exclusive	CSF-N_190_IGM	IGHV3-48	CARNPQKLLADQYYYYGMDVW	IGHJ6	CSF	41
56514	61	CSF exclusive	CSF-N_190_IGM	IGHV5-51	CARRGLGGALGYW	IGHJ4	CSF	1
56514	61	CSF exclusive	CSF-N_190_IGM	IGHV5-51	CARRGLGALDYW	IGHJ4	CSF	384
56514	62	CSF exclusive	CSF-N_190_IGM	IGHV5-51	CARRGYDTRLGWFPDW	IGHJ5	CSF	420
56514	63	Connecting to PB	CSF-N_190_IGM	IGHV5-51	CARSYYDSSGGYTYYYGMDVW	IGHJ6	CSF	1
56514	63	Connecting to PB	Naive_290198_IGM	IGHV5-51	CARSYYDSSGGYTYYYGMDVW	IGHJ6	PB	3
56514	64	CSF exclusive	CSF-N_190_IGM	IGHV1-3	CAMTRYCRSTSCYEGYYYGTDVW	IGHJ6	CSF	2
56514	64	CSF exclusive	CSF-N_190_IGM	IGHV1-3	CARTRYCRSTSCYEGYYYGMDVW	IGHJ6	CSF	394
56514	65	CSF exclusive	CSF-N_190_IGM	IGHV1-69	CARTVVVGATTYYYYGMDVW	IGHJ6	CSF	233
56514	66	CSF exclusive	CSF-N_190_IGM	IGHV4-59	CARVLVNNWFDPW	IGHJ5	CSF	60
56514	67	CSF exclusive	CSF-N_190_IGM	IGHV3-7	CARVRFDWLLTMDYW	IGHJ4	CSF	6
56514	68	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CARVSEGGYSYGYALYYW	IGHJ4	CSF	1
56514	69	CSF exclusive	CSF-N_190_IGM	IGHV4-34	CARVVNYDSSGSDGYLDYW	IGHJ4	CSF	16
56514	69	CSF exclusive	CSF-N_190_IGM	IGHV4-34	CARVVNYDSSGSDGYFDYW	IGHJ4	CSF	35
56514	70	CSF exclusive	CSF-N_190_IGM	IGHV3-30	CARVYGVPAANDYW	IGHJ4	CSF	73
56514	71	CSF exclusive	CSF-N_190_IGM	IGHV4-39	CARYWDVDPW	IGHJ5	CSF	343
56514	72	CSF exclusive	CSF-N_190_IGM	IGHV4-59	CASERLGNRGWFDPW	IGHJ5	CSF	1413
56514	73	CSF exclusive	CSF-N_190_IGM	IGHV4-59	CASGGYSYATDW	IGHJ4	CSF	1328
56514	74	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CASGYDGRHLYDYW	IGHJ4	CSF	1
56514	75	CSF exclusive	CSF-N_190_IGM	IGHV4-59	CASGYGGRHYFDYW	IGHJ4	CSF	1
56514	75	CSF exclusive	CSF-N_190_IGM	IGHV4-59	CASGYGGRHYFDYW	IGHJ4	CSF	66
56514	76	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CASLPRAYSSSPPRYW	IGHJ4	CSF	39
56514	77	CSF exclusive	CSF-N_190_IGM	IGHV3-21	CASLVVPAAIHYYGMDVW	IGHJ6	CSF	33
56514	78	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CASPHRFCSGGSCYFIW	IGHJ5	CSF	139
56514	79	CSF exclusive	CSF-N_190_IGM	IGHV1-2	CATGARGDSSGYDYFDYW	IGHJ4	CSF	404
56514	80	CSF exclusive	CSF-N_190_IGM	IGHV4-31	CATRPWSHDAFDIW	IGHJ3	CSF	1
56514	81	Connecting to PB	CSF-N_190_IGM	IGHV3-21	CGRDFLTGHTAAGADYW	IGHJ4	CSF	113
56514	81	Connecting to PB	USM_89486_IGM	IGHV3-21	CGRDFLTSHIAAGADYW	IGHJ4	PB	1
56514	82	CSF exclusive	CSF-N_190_IGM	IGHV3-72	CTRADLPQYSSGDYW	IGHJ4	CSF	98
56514	83	CSF exclusive	CSF-N_190_IGM	IGHV4-59	CVKENSQYVAYGLRWGVNVW	IGHJ6	CSF	145
56514	84	CSF exclusive	CSF-N_190_IGM	IGHV1-69	RARTVVVGATTYYYYGMDVW	IGHJ6	CSF	3
56514	85	CSF exclusive	CSF-SM_1022_IGG	IGHV5-51	CACLSSRWYDAFEIW	IGHJ3	CSF	1
56514	85	CSF exclusive	CSF-SM_1022_IGG	IGHV5-51	CASPSSRWYDAFEIW	IGHJ3	CSF	4
56514	86	CSF exclusive	CSF-SM_1022_IGG	IGHV3-30	CAKDWERRGSSSDYYYYGMDVW	IGHJ6	CSF	1
56514	87	CSF exclusive	CSF-SM_1022_IGG	IGHV3-30	CAKDRGFIVVVPATISGMDVW	IGHJ6	CSF	53
56514	88	Connecting to PB	CSF-SM_1022_IGG	IGHV3-30	CAKDRGGRWLYNWFDPW	IGHJ5	CSF	1
56514	88	Connecting to PB	DN_35706_IGG	IGHV3-30	CAKDRGGRWLYNWFDPW	IGHJ5	PB	26
56514	89	CSF exclusive	CSF-SM_1022_IGG	IGHV3-30	CAKEIYNWIHQYYGMDVW	IGHJ6	CSF	199
56514	90	CSF exclusive	CSF-SM_1022_IGG	IGHV3-30	CARAQMGKEYFYFYGMDVW	IGHJ6	CSF	3
56514	91	CSF exclusive	CSF-SM_1022_IGG	IGHV4-31	CARATMVLSSVWFDPW	IGHJ5	CSF	2
56514	92	CSF exclusive	CSF-SM_1022_IGG	IGHV4-31	CARDGLMNSPYWYFDLW	IGHJ2	CSF	3
56514	93	CSF exclusive	CSF-SM_1022_IGG	IGHV1-3	CARDINYDDHRIDYW	IGHJ4	CSF	1
56514	94	Connecting to PB	CSF-SM_1022_IGG	IGHV1-69	CARDLRGPGLW	IGHJ4	CSF	4266
56514	94	Connecting to PB	CSF-SM_1022_IGG	IGHV1-69	CARDLRGPGVW	IGHJ4	CSF	5694
56514	94	Connecting to PB	SM_188264_IGG	IGHV1-69	CARDLRGPGVW	IGHJ4	PB	340
56514	95	CSF exclusive	CSF-SM_1022_IGG	IGHV4-34	CARDMFGWSAYNNPHYFDYW	IGHJ4	CSF	70
56514	96	CSF exclusive	CSF-SM_1022_IGG	IGHV4-59	CARDPFMRWLVNPGAFDIW	IGHJ3	CSF	429
56514	97	Connecting to PB	CSF-SM_1022_IGG	IGHV1-69	CAREPARWEWLDPW	IGHJ5	CSF	357
56514	97	Connecting to PB	CSF-SM_1022_IGG	IGHV1-69	CARQPARWEDWLDPW	IGHJ5	CSF	2081
56514	97	Connecting to PB	SM_188264_IGG	IGHV1-69	CAGQPARWEDWLDPW	IGHJ5	PB	1
56514	97	Connecting to PB	SM_188264_IGG	IGHV1-69	CARQPARWEDWLDPW	IGHJ5	PB	1
56514	97	Connecting to PB	SM_188264_IGG	IGHV1-69	CARQPARWEDWLDPW	IGHJ5	PB	19
56514	97	Connecting to PB	SM_188264_IGG	IGHV1-69	CAREPARWEWLDPW	IGHJ5	PB	77
56514	98	Connecting to PB	CSF-SM_1022_IGG	IGHV4-34	CARGSSAHSWAYHYGMDVW	IGHJ6	CSF	1
56514	98	Connecting to PB	CSF-SM_1022_IGG	IGHV4-34	CARGSSAHSWAYHYGMDVW	IGHJ6	CSF	16
56514	98	Connecting to PB	SM_188264_IGG	IGHV4-34	CARGSSGHSQAYYYGMDVW	IGHJ6	PB	18
56514	99	Connecting to PB	CSF-SM_1022_IGG	IGHV2-70	CARIPGVGRPFDDIC	IGHJ3	CSF	1100
56514	99	Connecting to PB	SM_188264_IGG	IGHV2-70	CARIPGVGRPFDDIC	IGHJ3	PB	195
56514	99	Connecting to PB	DN_35706_IGG	IGHV2-70	CARIPGVGRPFDDIC	IGHJ3	PB	341
56514	100	CSF exclusive	CSF-SM_1022_IGG	IGHV4-34	CARIRDGHYENEFYFDYW	IGHJ4	CSF	1
56514	101	Connecting to PB	CSF-SM_1022_IGG	IGHV5-51	CARLPLTNINVRETDYW	IGHJ4	CSF	78
56514	101	Connecting to PB	SM_188264_IGG	IGHV5-51	CARLPLTNINVRETDYW	IGHJ4	PB	143
56514	102	Connecting to PB	CSF-SM_1022_IGG	IGHV6-1	CARSLRITGTFKFDYW	IGHJ4	CSF	11
56514	102	Connecting to PB	SM_188264_IGG	IGHV6-1	CARSLRITGTFKFDYW	IGHJ4	PB	309
56514	103	Connecting to PB	CSF-SM_1022_IGG	IGHV4-31	CARSTRYYRSGYLAFDSW	IGHJ4	CSF	31
56514	103	Connecting to PB	DN_35706_IGG	IGHV4-31	CARSTRYYRSGYLAFDSW	IGHJ4	PB	18
56514	103	Connecting to PB	SM_188264_IGG	IGHV4-31	CARSTRYYRSGYLAFDSW	IGHJ4	PB	31
56514	104	Connecting to PB	CSF-SM_1022_IGG	IGHV4-31	CARVAPTTKYYYAMDVW	IGHJ6	CSF	383
56514	104	Connecting to PB	PC_1001_IGG	IGHV4-31	CAGVAPTTKYYYAMDVW	IGHJ6	PB	1
56514	104	Connecting to PB	SM_188264_IGG	IGHV4-31	CARVAPTTKYYYAMDVW	IGHJ6	PB	7
56514	105	Connecting to PB	CSF-SM_1022_IGG	IGHV4-59	CASGEGHNLYW	IGHJ4	CSF	1
56514	105	Connecting to PB	SM_188264_IGG	IGHV4-59	CASGEGHNLYW	IGHJ4	PB	91
56514	106	CSF exclusive	CSF-SM_1022_IGG	IGHV4-34	CASLWVYDSSGYQHVGDYW	IGHJ4	CSF	24
56514	107	CSF exclusive	CSF-SM_1022_IGG	IGHV4-31	CASNRYGGSGPLDAFHIW	IGHJ3	CSF	1
56514	108	Connecting to PB	CSF-SM_1022_IGG	IGHV4-59	CATDNSGPRDPDYW	IGHJ4	CSF	1044
56514	108	Connecting to PB	SM_188264_IGG	IGHV4-59	CATDNSGPRDPDYR	IGHJ4	PB	4
56514	109	CSF exclusive	CSF-SM_1022_IGG	IGHV4-59	CATDNSGPPSSQGPW	IGHJ5	CSF	5
56514	110	CSF exclusive	CSF-SM_1022_IGG	IGHV1-69	CATVHHSRSSRGSEYW	IGHJ4	CSF	1
56514	111	CSF exclusive	CSF-SM_1022_IGG	IGHV2-70	CSRSWGANGSFDWF	IGHJ3	CSF	416
56514	112	Connecting to PB	CSF-SM_1022_IGG	IGHV5-51	CTRHGGYISGREYDW	IGHJ4	CSF	121
56514	112	Connecting to PB	SM_188264_IGG	IGHV5-51	CTRHGGYISGREYDW	IGHJ4	PB	53
56514	113	Connecting to PB	CSF-SM_1022_IGG	IGHV4-34	CVITDVKTLPLLYSGYDEMVFYDW	IGHJ4	CSF	15
56514	113	Connecting to PB	SM_188264_IGG	IGHV4-34	CVITDVKTLPLLYSGYDEMVFYDW	IGHJ4	PB	1
56514	114	Connecting to PB	CSF-SM_1022_IGG	IGHV3-23	CVKSGDLYSISSSGYYYYGMDVW	IGHJ6	CSF	152
56514	114	Connecting to PB	SM_188264_IGG	IGHV3-23	CVKSGDLYSISSSGYYYYGMDVW	IGHJ6	PB	10

56514	115	Connecting to PB	CSF-SM_1022_IGG	IGHV3-7	CVRDEKWRDAVDIW	IGHJ3	CSF	72
56514	115	Connecting to PB	SM_188264_IGG	IGHV3-7	CVRDEKWRDTVDIW	IGHJ3	PB	23
56514	116	CSF exclusive	CSF-SM_1022_IGG	IGHV4-59	CVRVVLGEFDPW	IGHJ5	CSF	1
56514	117	Connecting to PB	CSF-USM_146_IGM	IGHV2-5	CAHKFNSEFDYW	IGHJ4	CSF	313
56514	117	Connecting to PB	USM_89486_IGM	IGHV2-5	CAHKFNSEFDYW	IGHJ4	PB	6
56514	118	CSF exclusive	CSF-USM_146_IGM	IGHV3-30	CAKATQGGYGGYPLHYW	IGHJ4	CSF	358
56514	119	CSF exclusive	CSF-USM_146_IGM	IGHV3-30	CAKGRNTYLDTSAFDYW	IGHJ4	CSF	3
56514	120	Connecting to PB	CSF-USM_146_IGM	IGHV3-7	CARASKGAHDYW	IGHJ4	CSF	1
56514	120	Connecting to PB	Naive_290198_IGM	IGHV3-7	CARASKGAHDYW	IGHJ4	PB	1
56514	121	CSF exclusive	CSF-USM_146_IGM	IGHV3-21	CARATKSVAVAGKDAFDIW	IGHJ3	CSF	134
56514	122	CSF exclusive	CSF-USM_146_IGM	IGHV3-74	CARAYGNYPYFYGMVDVW	IGHJ6	CSF	72
56514	123	Connecting to PB	CSF-USM_146_IGM	IGHV4-59	CARAYTGDYWYDDLW	IGHJ2	CSF	511
56514	123	Connecting to PB	Naive_290198_IGM	IGHV4-59	CARAYTGDYWYDDLW	IGHJ2	PB	1
56514	124	CSF exclusive	CSF-USM_146_IGM	IGHV3-30	CARDMNIAMAGRGYVDYW	IGHJ4	CSF	446
56514	125	Connecting to PB	CSF-USM_146_IGM	IGHV4-59	CARDRTKSWTSWAFDIW	IGHJ3	CSF	1
56514	125	Connecting to PB	Naive_290198_IGM	IGHV4-59	CARDRTKSWTSWAFDIW	IGHJ3	PB	2
56514	126	CSF exclusive	CSF-USM_146_IGM	IGHV1-3	CAREDSGWYLDWC	IGHJ4	CSF	10
56514	126	CSF exclusive	CSF-USM_146_IGM	IGHV1-3	CAREDSGWYFDYW	IGHJ4	CSF	621
56514	127	Connecting to PB	CSF-USM_146_IGM	IGHV4-34	CARENKGIQLWSNYGMVDVW	IGHJ6	CSF	543
56514	127	Connecting to PB	USM_89486_IGM	IGHV4-34	CARENKGIQLWSNYGMVDVW	IGHJ6	PB	1
56514	128	Connecting to PB	CSF-USM_146_IGM	IGHV1-69	CARERSSSFYDW	IGHJ4	CSF	1
56514	128	Connecting to PB	Naive_290198_IGM	IGHV1-69	CARERSSSFYDW	IGHJ4	PB	9
56514	129	Connecting to PB	CSF-USM_146_IGM	IGHV1-46	CAREVSSVGMVDVW	IGHJ6	CSF	2
56514	129	Connecting to PB	SM_188264_IGM	IGHV1-46	CAREASSVGTVDW	IGHJ6	PB	1
56514	129	Connecting to PB	SM_188264_IGM	IGHV1-46	CAREASSVGMVDVW	IGHJ6	PB	13
56514	129	Connecting to PB	SM_188264_IGM	IGHV1-46	CAREVSSVGMVDVW	IGHJ6	PB	160
56514	129	Connecting to PB	USM_89486_IGM	IGHV1-46	CAREVSSVGMVDVW	IGHJ6	PB	352
56514	130	CSF exclusive	CSF-USM_146_IGM	IGHV4-59	CARGFASTWYLDYW	IGHJ4	CSF	4
56514	131	Connecting to PB	CSF-USM_146_IGM	IGHV3-23	CARGRWLGRPTGYGMVDVW	IGHJ6	CSF	356
56514	131	Connecting to PB	USM_89486_IGM	IGHV3-23	CARGRWLGRPTGYGMVDVW	IGHJ6	PB	17
56514	132	Connecting to PB	CSF-USM_146_IGM	IGHV4-31	CARGTGLLVPGLGWFPDW	IGHJ5	CSF	35
56514	132	Connecting to PB	USM_89486_IGM	IGHV4-31	CARGTGLLVPGLGWFPDW	IGHJ5	PB	9
56514	133	Connecting to PB	CSF-USM_146_IGM	IGHV5-51	CARGYWFYDLW	IGHJ2	CSF	46
56514	133	Connecting to PB	Naive_290198_IGM	IGHV5-51	CARGYWFYDLW	IGHJ2	PB	1
56514	133	Connecting to PB	PC_1001_IGM	IGHV5-51	CARGYWFYDLW	IGHJ2	PB	1
56514	133	Connecting to PB	USM_89486_IGM	IGHV5-51	CARGYWFYDLW	IGHJ2	PB	1
56514	133	Connecting to PB	Naive_290198_IGM	IGHV5-51	CARGRVYFDLW	IGHJ2	PB	4
56514	133	Connecting to PB	USM_89486_IGM	IGHV5-51	CARGYWFYDLW	IGHJ2	PB	82
56514	134	Connecting to PB	CSF-USM_146_IGM	IGHV4-59	CARHGRAYSSYYALDIW	IGHJ3	CSF	2
56514	134	Connecting to PB	CSF-USM_146_IGM	IGHV4-59	CARHGRAYSSYYALDIW	IGHJ3	CSF	558
56514	134	Connecting to PB	USM_89486_IGM	IGHV4-59	CARHGRAYSSYYALDIW	IGHJ3	PB	1
56514	135	CSF exclusive	CSF-USM_146_IGM	IGHV4-39	CARHLEWPIDYW	IGHJ4	CSF	370
56514	136	Connecting to PB	CSF-USM_146_IGM	IGHV4-59	CARIVGTTDAFDIW	IGHJ3	CSF	1259
56514	136	Connecting to PB	USM_89486_IGM	IGHV4-59	CATVVGASDAFDIW	IGHJ3	PB	33
56514	136	Connecting to PB	USM_89486_IGM	IGHV4-59	CARVVGASDAFDLW	IGHJ3	PB	36
56514	136	Connecting to PB	USM_89486_IGM	IGHV4-59	CARVVGATDAFDIW	IGHJ3	PB	376
56514	137	CSF exclusive	CSF-USM_146_IGM	IGHV3-21	CARNIPRDSNWFADYW	IGHJ4	CSF	126
56514	138	Connecting to PB	CSF-USM_146_IGM	IGHV4-39	CARPNSGGYDAFDIW	IGHJ3	CSF	659
56514	138	Connecting to PB	USM_89486_IGM	IGHV4-39	CARPYSGNYDAFDIW	IGHJ3	PB	12
56514	138	Connecting to PB	USM_89486_IGM	IGHV4-39	CARPNSGGYDAFDIW	IGHJ3	PB	13
56514	138	Connecting to PB	USM_89486_IGM	IGHV4-39	CARPYSGYDAFDIW	IGHJ3	PB	23
56514	139	CSF exclusive	CSF-USM_146_IGM	IGHV1-18	CATNYIDIDGYRPSKWFDPW	IGHJ5	CSF	599
56514	140	CSF exclusive	CSF-USM_146_IGM	IGHV5-51	CATSISSGWYWGYYW	IGHJ4	CSF	140
56514	141	CSF exclusive	CSF-USM_146_IGM	IGHV3-15	CQVTPTLATHRGVFDIW	IGHJ3	CSF	403
56514	142	Connecting to PB	CSF-USM_146_IGM	IGHV3-15	CSSNSWGDYW	IGHJ4	CSF	5
56514	142	Connecting to PB	USM_89486_IGM	IGHV3-15	CSSNSWGDYW	IGHJ4	PB	8
56514	142	Connecting to PB	USM_89486_IGM	IGHV3-15	CSTNSWGDYW	IGHJ4	PB	12
56514	143	Connecting to PB	CSF-USM_146_IGM	IGHV3-30	CTRGRSSMFSDSW	IGHJ5	CSF	29
56514	143	Connecting to PB	USM_89486_IGM	IGHV3-30	CMRGRSSMFSDSW	IGHJ5	PB	3
56514	143	Connecting to PB	USM_89486_IGM	IGHV3-30	CTRGRSSMFSDSW	IGHJ5	PB	6
56514	144	Connecting to PB	CSF-USM_146_IGM	IGHV3-73	CTRLVDLAAAGYDYW	IGHJ4	CSF	63
56514	144	Connecting to PB	USM_89486_IGM	IGHV3-73	CTRLVDMAAGYDYW	IGHJ4	PB	1
56514	144	Connecting to PB	USM_89486_IGM	IGHV3-73	CTRLVDIAAGYDYW	IGHJ4	PB	12
56514	145	CSF exclusive	CSF-USM_146_IGM	IGHV3-15	CTTLGQVVAANGYW	IGHJ4	CSF	100
56514	146	CSF exclusive	CSF-USM_146_IGM	IGHV3-64	CVKAQNYDSWSSWDCW	IGHJ4	CSF	1
56514	146	CSF exclusive	CSF-USM_146_IGM	IGHV3-64	CVKAQNYDSWSSWGCW	IGHJ4	CSF	19
56514	147	Connecting to PB	CSF-USM_146_IGM	IGHV3-7	CVRDCWGLPEGVDFDIW	IGHJ3	CSF	280
56514	147	Connecting to PB	USM_89486_IGM	IGHV3-7	CARDCWGLPEGIDGFDIW	IGHJ3	PB	1
56514	147	Connecting to PB	USM_89486_IGM	IGHV3-7	CVRDCWGLPEGVDFDIW	IGHJ3	PB	1
56514	147	Connecting to PB	USM_89486_IGM	IGHV3-7	CVRDCWGLPEGVDFDLW	IGHJ3	PB	1
56514	147	Connecting to PB	USM_89486_IGM	IGHV3-7	CVKDNWGLPEGVDAFDVW	IGHJ3	PB	2
56514	147	Connecting to PB	SM_188264_IGM	IGHV3-7	CVRDCWGLPEGIDGFDIW	IGHJ3	PB	3
56514	147	Connecting to PB	USM_89486_IGM	IGHV3-7	CVKDNWGLPEGVDAFDIW	IGHJ3	PB	5
56514	147	Connecting to PB	SM_188264_IGG	IGHV3-7	CARDCWGLPEGVDFDIW	IGHJ3	PB	9
56514	147	Connecting to PB	USM_89486_IGM	IGHV3-7	CAKDNWGLPGGVDAFDIW	IGHJ3	PB	12
56514	147	Connecting to PB	USM_89486_IGM	IGHV3-7	CARDCWGLPEGVDFDIW	IGHJ3	PB	19
56514	147	Connecting to PB	SM_188264_IGM	IGHV3-7	CVKDNWGLPEGVDFDIW	IGHJ3	PB	21
56514	147	Connecting to PB	SM_188264_IGM	IGHV3-7	CARDCWGLPEGVDFDIW	IGHJ3	PB	94
56514	148	Connecting to PB	CSF-USM_146_IGM	IGHV3-74	CVRDVGAPPLDYW	IGHJ4	CSF	277
56514	148	Connecting to PB	USM_89486_IGM	IGHV3-74	CVRDVGAPPLDYW	IGHJ4	PB	1
56514	148	Connecting to PB	SM_188264_IGG	IGHV3-74	CVRDVGAPPLDYW	IGHJ4	PB	17
56914	1	Connecting to PB	CSF-DN_58_IGG	IGHV4-59	CAEGPYISGWYGAFDIW	IGHJ3	CSF	171
56914	1	Connecting to PB	DN_38934_IGG	IGHV4-59	CAKGPYSSGWYGAFHIW	IGHJ3	PB	2
56914	1	Connecting to PB	DN_38934_IGG	IGHV4-59	CTEGPYISGWYGAFDIW	IGHJ3	PB	15
56914	1	Connecting to PB	DN_38934_IGG	IGHV4-59	CAEGPYSSGWYGAFDIW	IGHJ3	PB	18

56914	1	Connecting to PB	DN_38934_IGG	IGHV4-59	CAEGPYSSDWYGSFNIW	IGHJ3	PB	39
56914	1	Connecting to PB	SM_125023_IGG	IGHV4-59	CAEGPYISGWYGFADVW	IGHJ3	PB	50
56914	1	Connecting to PB	SM_125023_IGG	IGHV4-59	CAEGPYSSDWYGFADIW	IGHJ3	PB	67
56914	2	CSF exclusive	CSF-DN_58_IGG	IGHV2-5	CAIAVREGYDSSGYNGYFDFW	IGHJ4	CSF	275
56914	3	CSF exclusive	CSF-DN_58_IGG	IGHV1-8	CARGLEEWFRKLRGRRIYFCYMDAW	IGHJ6	CSF	1
56914	4	Connecting to PB	CSF-SM_240_IGG	IGHV1-8	RAKGLEEWFRKLRGRRTYFYMDVW	IGHJ6	CSF	1
56914	4	Connecting to PB	CSF-DN_58_IGG	IGHV1-8	CARGLEEWFRKLRGRRTYFYMDVW	IGHJ6	CSF	8600
56914	4	Connecting to PB	CSF-SM_240_IGG	IGHV1-8	CARGLEEWFRKLRGRRTYFYMDVW	IGHJ6	CSF	9585
56914	4	Connecting to PB	SM_125023_IGG	IGHV1-8	CARGLEEWFRKLRGRRTYFYMDVW	IGHJ6	PB	23
56914	5	CSF exclusive	CSF-DN_58_IGG	IGHV4-39	CVRRAGYSSGWYDHR	IGHJ5	CSF	1
56914	5	CSF exclusive	CSF-DN_58_IGG	IGHV4-39	CVRRAGYSSGWYDHW	IGHJ5	CSF	14
56914	6	Connecting to PB	CSF-PC_115_IGG	IGHV4-34	CAGLVDFLDAFDIW	IGHJ3	CSF	14970
56914	6	Connecting to PB	SM_125023_IGG	IGHV4-34	CAGLVDFLDAFDIW	IGHJ3	PB	51
56914	6	Connecting to PB	DN_38934_IGG	IGHV4-34	CAGLVDFLDAFDIW	IGHJ3	PB	105
56914	7	CSF exclusive	CSF-PC_115_IGG	IGHV2-5	CAHLRITYGQTFDYW	IGHJ4	CSF	60
56914	8	CSF exclusive	CSF-PC_115_IGG	IGHV3-23	CAKDVPRIVRPTNIDFW	IGHJ4	CSF	1381
56914	9	CSF exclusive	CSF-PC_115_IGG	IGHV3-30	CAKDREYDWSGYSLSRDYYYYYGVVW	IGHJ6	CSF	6
56914	10	CSF exclusive	CSF-PC_115_IGG	IGHV3-30	CAKDREYDWSGYSLSRDYYYYYGVVW	IGHJ6	CSF	138
56914	11	CSF exclusive	CSF-PC_115_IGG	IGHV4-59	CARATLRSNYYYSMDVW	IGHJ6	CSF	16
56914	12	CSF exclusive	CSF-SM_240_IGG	IGHV3-11	CARDEPRLIRGYFDSW	IGHJ4	CSF	390
56914	12	CSF exclusive	CSF-PC_115_IGG	IGHV3-11	CARDEPRLIRGYFDSW	IGHJ4	CSF	1335
56914	13	CSF exclusive	CSF-PC_115_IGG	IGHV3-48	CARDEQCLIRGFFDYW	IGHJ4	CSF	1
56914	14	CSF exclusive	CSF-PC_115_IGG	IGHV3-11	CARDEQRLIRGFFDYW	IGHJ4	CSF	14
56914	15	Connecting to PB	CSF-PC_115_IGG	IGHV4-59	CARDSSGWLRYFDLW	IGHJ2	CSF	5648
56914	15	Connecting to PB	DN_38934_IGG	IGHV4-59	CARDSSGWLRYFDLW	IGHJ2	PB	138
56914	15	Connecting to PB	SM_125023_IGG	IGHV4-59	CARDSSGWLRYFDLW	IGHJ2	PB	486
56914	16	CSF exclusive	CSF-PC_115_IGG	IGHV3-21	CARESSDFWSSGRNNWFDPW	IGHJ5	CSF	149
56914	17	Connecting to PB	CSF-PC_115_IGG	IGHV4-4	CARGPSSGWYGLDSW	IGHJ4	CSF	1
56914	17	Connecting to PB	PC_411_IGG	IGHV4-4	CAREPSSGWYDLDSW	IGHJ4	PB	1
56914	17	Connecting to PB	DN_38934_IGG	IGHV4-4	CARGPSSGWYGLDSW	IGHJ4	PB	1
56914	17	Connecting to PB	SM_125023_IGG	IGHV4-4	CARGPSSGWYGLDSW	IGHJ4	PB	3
56914	17	Connecting to PB	PC_411_IGG	IGHV4-4	CARGPSSGWYGLDSW	IGHJ4	PB	12429
56914	18	CSF exclusive	CSF-PC_115_IGG	IGHV4-34	CARGRRYASGSYYPTQYPYNYLDVW	IGHJ6	CSF	875
56914	19	CSF exclusive	CSF-PC_115_IGG	IGHV4-34	CARGRRYSSGGYYPTQYPYNYLDVW	IGHJ3	CSF	1
56914	20	CSF exclusive	CSF-PC_115_IGG	IGHV4-34	CARGRRYSSGSYYPTQYPYNYLDVW	IGHJ6	CSF	11
56914	21	CSF exclusive	CSF-PC_115_IGG	IGHV2-70	CARGRYPDNYYYYYLDVW	IGHJ6	CSF	77
56914	22	CSF exclusive	CSF-PC_115_IGG	IGHV2-70	CARGRYPDNYYYYYLDVW	IGHJ6	CSF	2092
56914	23	Connecting to PB	CSF-PC_115_IGG	IGHV4-59	CARGSSYDSSGYPNWFDSW	IGHJ5	CSF	2776
56914	23	Connecting to PB	SM_125023_IGG	IGHV4-59	CARGSSYDSSGYPNWFDSW	IGHJ5	PB	171
56914	24	Connecting to PB	CSF-PC_115_IGG	IGHV6-1	CARGYNSGHDYW	IGHJ4	CSF	1
56914	24	Connecting to PB	SM_125023_IGG	IGHV6-1	CVRGYNSGHDYC	IGHJ4	PB	1
56914	24	Connecting to PB	SM_125023_IGG	IGHV6-1	CAGGYNSGHDYW	IGHJ4	PB	2
56914	24	Connecting to PB	PC_411_IGM	IGHV6-1	CARGYNSGHDYW	IGHJ4	PB	6
56914	24	Connecting to PB	PC_411_IGG	IGHV6-1	CARGYNLGHDIW	IGHJ4	PB	15
56914	24	Connecting to PB	SM_125023_IGG	IGHV6-1	CARGAKSGFDYW	IGHJ4	PB	124
56914	24	Connecting to PB	SM_125023_IGG	IGHV6-1	CARGINSGFYDYM	IGHJ4	PB	246
56914	24	Connecting to PB	SM_125023_IGG	IGHV6-1	CARGYNSGHDYW	IGHJ4	PB	571
56914	24	Connecting to PB	PC_411_IGG	IGHV6-1	CARGYNSGHDYW	IGHJ4	PB	39877
56914	25	Connecting to PB	CSF-PC_115_IGG	IGHV4-59	CARHVGHFHGW	IGHJ4	CSF	1
56914	25	Connecting to PB	CSF-PC_115_IGG	IGHV4-59	CARHVGHFYDYM	IGHJ4	CSF	460
56914	25	Connecting to PB	DN_38934_IGG	IGHV4-59	CARGVGAFDFW	IGHJ4	PB	3
56914	25	Connecting to PB	SM_125023_IGG	IGHV4-59	CARHVGFDYW	IGHJ4	PB	11
56914	25	Connecting to PB	USM_200000_IGM	IGHV4-59	CARWVGHFDFW	IGHJ4	PB	12
56914	26	Connecting to PB	CSF-PC_115_IGG	IGHV4-4	CARRGIDWYFDLW	IGHJ2	CSF	1
56914	26	Connecting to PB	CSF-PC_115_IGG	IGHV4-4	CARRGNDWYFDLW	IGHJ2	CSF	206
56914	26	Connecting to PB	SM_125023_IGG	IGHV4-4	CARRGNDWYFDLW	IGHJ2	PB	1
56914	27	CSF exclusive	CSF-PC_115_IGG	IGHV4-59	CARRTYSGFSYFFDYW	IGHJ2	CSF	1
56914	28	CSF exclusive	CSF-PC_115_IGG	IGHV4-59	CARRTYSGFSYFFDYW	IGHJ4	CSF	1070
56914	29	CSF exclusive	CSF-PC_115_IGG	IGHV1-46	CARVWGRGAGRWRPWSW	IGHJ5	CSF	567
56914	30	Connecting to PB	CSF-PC_115_IGG	IGHV4-39	CASAYATTRYSDYW	IGHJ4	CSF	1
56914	30	Connecting to PB	CSF-PC_115_IGM	IGHV4-39	CASAYTTTWYSDYW	IGHJ4	CSF	3
56914	30	Connecting to PB	CSF-SM_240_IGG	IGHV4-39	CASAYTTTWYSDYW	IGHJ4	CSF	482
56914	30	Connecting to PB	CSF-PC_115_IGG	IGHV4-39	CASAYTTTWYSDYW	IGHJ4	CSF	4512
56914	30	Connecting to PB	DN_38934_IGG	IGHV4-39	CASAHTTTWYSDYW	IGHJ4	PB	1
56914	30	Connecting to PB	SM_125023_IGG	IGHV4-39	CASAYTTTWYSDYW	IGHJ4	PB	20
56914	31	Connecting to PB	CSF-SM_240_IGG	IGHV1-3	CASNYGDVDYW	IGHJ4	CSF	1
56914	31	Connecting to PB	CSF-PC_115_IGM	IGHV1-3	CASNYGDVDYW	IGHJ4	CSF	4
56914	31	Connecting to PB	CSF-PC_115_IGG	IGHV1-3	CASNYGDVDYW	IGHJ4	CSF	261
56914	31	Connecting to PB	Naive_140638_IGM	IGHV1-3	CATDYGDQDYW	IGHJ4	PB	2
56914	31	Connecting to PB	USM_200000_IGM	IGHV1-3	CATNNGDQDCW	IGHJ4	PB	2
56914	31	Connecting to PB	USM_200000_IGM	IGHV1-3	CASDNGDQDCW	IGHJ4	PB	4
56914	31	Connecting to PB	USM_200000_IGM	IGHV1-3	CASDYGDRCW	IGHJ4	PB	14
56914	31	Connecting to PB	USM_200000_IGM	IGHV1-3	CASDYGDQDYW	IGHJ4	PB	16
56914	31	Connecting to PB	SM_125023_IGG	IGHV1-3	CASNYGDVDYW	IGHJ4	PB	142
56914	32	Connecting to PB	CSF-PC_115_IGG	IGHV4-31	CAVLWSEYSGYYIDYW	IGHJ4	CSF	1
56914	32	Connecting to PB	DN_38934_IGG	IGHV4-31	CAVLWSEYSGYYIDYW	IGHJ4	PB	113
56914	33	CSF exclusive	CSF-PC_115_IGG	IGHV5-51	CGRHTGWSSDHYYMDVW	IGHJ6	CSF	3
56914	34	CSF exclusive	CSF-PC_115_IGG	IGHV1-8	YSRVDHWHTERAFGVW	IGHJ3	CSF	1
56914	34	CSF exclusive	CSF-PC_115_IGG	IGHV1-8	CSRVDHWHTERAFGVW	IGHJ3	CSF	5
56914	35	CSF exclusive	CSF-PC_115_IGG	IGHV3-49	CTRPVNDPWSYDYSVSGASDSW	IGHJ4	CSF	170
56914	36	CSF exclusive	CSF-PC_115_IGG	IGHV2-5	CVHSRDLRLGLLYRFDPW	IGHJ5	CSF	1717
56914	37	CSF exclusive	CSF-PC_115_IGM	IGHV1-2	CARDQWHAYDYW	IGHJ4	CSF	62
56914	38	CSF exclusive	CSF-PC_115_IGM	IGHV2-5	CARTVPLSTWEPQGPLAYW	IGHJ4	CSF	1
56914	39	CSF exclusive	CSF-SM_240_IGG	IGHV2-5	CAHRPRGDISSWFGRAYFDYW	IGHJ4	CSF	42
56914	40	CSF exclusive	CSF-SM_240_IGG	IGHV3-30	CAKNDTGWAFDCW	IGHJ4	CSF	23



56914	41	CSF exclusive	CSF-SM_240_IGG	IGHV3-23	CAKDRQGTGTANWFDPW	IGHJ5	CSF	54
56914	42	CSF exclusive	CSF-SM_240_IGG	IGHV3-30	CAKENGYVTGSYYTKNYYYGMDVW	IGHJ6	CSF	17
56914	43	CSF exclusive	CSF-SM_240_IGG	IGHV3-43	CANNWRDMDRYYYYYMDVW	IGHJ6	CSF	29
56914	44	CSF exclusive	CSF-SM_240_IGG	IGHV1-2	CARDGEILWFGESSRFDYW	IGHJ4	CSF	287
56914	45	CSF exclusive	CSF-SM_240_IGG	IGHV4-34	CARGGVYYAMDVW	IGHJ6	CSF	70
56914	46	CSF exclusive	CSF-SM_240_IGG	IGHV1-8	CARGLEEFKRLGRTYFYFMDVW	IGHJ6	CSF	1
56914	47	CSF exclusive	CSF-SM_240_IGG	IGHV3-21	CARQIILTDADFVW	IGHJ3	CSF	6
56914	48	CSF exclusive	CSF-SM_240_IGG	IGHV3-30	CARSLNPHYDFWRVLDVW	IGHJ6	CSF	3
56914	49	CSF exclusive	CSF-USM_183_IGM	IGHV4-39	CAGRDSVLVVPVFL	IGHJ5	CSF	500
56914	50	CSF exclusive	CSF-USM_183_IGM	IGHV2-5	CAHRPVGNSGYGGLHYFDYW	IGHJ4	CSF	450
56914	51	CSF exclusive	CSF-USM_183_IGM	IGHV2-5	CAHSTVVAGYFDYW	IGHJ4	CSF	898
56914	52	CSF exclusive	CSF-USM_183_IGM	IGHV3-9	CAKDPYSSGQSGWFDPW	IGHJ5	CSF	121
56914	53	CSF exclusive	CSF-USM_183_IGM	IGHV3-43	CAKGRGGANSDALDIW	IGHJ3	CSF	71
56914	54	CSF exclusive	CSF-USM_183_IGM	IGHV3-23	CAKVVRSWYSGAFDVG	IGHJ3	CSF	28
56914	55	CSF exclusive	CSF-USM_183_IGM	IGHV6-1	CARDITSLDIW	IGHJ4	CSF	708
56914	56	CSF exclusive	CSF-USM_183_IGM	IGHV3-23	CARDPVDGNWFDPW	IGHJ5	CSF	39
56914	57	Connecting to PB	CSF-USM_183_IGM	IGHV1-2	CARDYYGDYSARDW	IGHJ4	CSF	439
56914	57	Connecting to PB	USM_200000_IGM	IGHV1-2	CARDKYGDYSARDW	IGHJ4	PB	4
56914	58	CSF exclusive	CSF-USM_183_IGM	IGHV4-59	CARGDSSSANVDYW	IGHJ4	CSF	125
56914	59	CSF exclusive	CSF-USM_183_IGM	IGHV7-81	CARGDYGTGGSYFNYW	IGHJ4	CSF	80
56914	60	CSF exclusive	CSF-USM_183_IGM	IGHV4-34	CARGLGRRLSTYYYYYGMVW	IGHJ6	CSF	78
56914	61	CSF exclusive	CSF-USM_183_IGM	IGHV3-11	CARGRGCSCGGRCYELNYW	IGHJ4	CSF	1
56914	61	CSF exclusive	CSF-USM_183_IGM	IGHV3-11	CARGRGCSCGGRCYGLNYW	IGHJ4	CSF	127
56914	62	Connecting to PB	CSF-USM_183_IGM	IGHV5-51	CARGTGEAGGAGVYFDIW	IGHJ4	CSF	26
56914	62	Connecting to PB	Naive_140638_IGM	IGHV5-51	CARGTGEAGGAGVYFDIW	IGHJ4	PB	4
56914	62	Connecting to PB	USM_200000_IGM	IGHV5-51	CARGTGEAGGAGVYFDIW	IGHJ4	PB	9
56914	63	CSF exclusive	CSF-USM_183_IGM	IGHV3-53	CARGVAAAGSFYLDYW	IGHJ4	CSF	38
56914	64	Connecting to PB	CSF-USM_183_IGM	IGHV4-59	CARRDCGTSSW	IGHJ5	CSF	1
56914	64	Connecting to PB	CSF-USM_183_IGM	IGHV4-59	CARHDYGTSSW	IGHJ5	CSF	485
56914	64	Connecting to PB	USM_200000_IGM	IGHV4-59	CARHDYGTSSW	IGHJ5	PB	5
56914	65	CSF exclusive	CSF-USM_183_IGM	IGHV3-11	CARHKIQRSVDYW	IGHJ4	CSF	161
56914	66	Connecting to PB	CSF-USM_183_IGM	IGHV4-39	CARHPGWDIGVPIEDSW	IGHJ5	CSF	144
56914	66	Connecting to PB	USM_200000_IGM	IGHV4-39	CARHPGWDIGVPIEDSW	IGHJ5	PB	13
56914	67	Connecting to PB	CSF-USM_183_IGM	IGHV2-70	CARISRVDYGGGVLVDYW	IGHJ4	CSF	112
56914	67	Connecting to PB	USM_200000_IGM	IGHV2-70	CARISRVDYGGGVLVDYW	IGHJ4	PB	7
56914	67	Connecting to PB	USM_200000_IGM	IGHV2-70	CARISRVDYGGGGLLDYW	IGHJ4	PB	8
56914	68	CSF exclusive	CSF-USM_183_IGM	IGHV3-30	CARKTDTTVPGYW	IGHJ4	CSF	32
56914	69	Connecting to PB	CSF-USM_183_IGM	IGHV4-4	CARLSQAASFTYHYLDIW	IGHJ6	CSF	27
56914	69	Connecting to PB	CSF-USM_183_IGM	IGHV4-4	CARLSQAALSFTYHYLDVW	IGHJ6	CSF	280
56914	69	Connecting to PB	USM_200000_IGM	IGHV4-4	CARLSQAALSFTYHYLDVW	IGHJ6	PB	19
56914	70	CSF exclusive	CSF-USM_183_IGM	IGHV4-4	CARLTPAALSFPYHYLDVW	IGHJ6	CSF	450
56914	71	CSF exclusive	CSF-USM_183_IGM	IGHV3-23	CARQAFTGSRRLDSW	IGHJ5	CSF	73
56914	72	Connecting to PB	CSF-USM_183_IGM	IGHV6-1	CARRGVQGVLDYW	IGHJ4	CSF	2012
56914	72	Connecting to PB	USM_200000_IGM	IGHV6-1	RARRGVQGVLDYW	IGHJ4	PB	1
56914	72	Connecting to PB	USM_200000_IGM	IGHV6-1	CARRGVQGVLDYW	IGHJ4	PB	174
56914	73	CSF exclusive	CSF-USM_183_IGM	IGHV4-31	CARRVVVRANDAFDIW	IGHJ3	CSF	425
56914	74	CSF exclusive	CSF-USM_183_IGM	IGHV3-7	CARSIGTAGSSW	IGHJ5	CSF	181
56914	75	CSF exclusive	CSF-USM_183_IGM	IGHV6-1	CARVTNAYFDYW	IGHJ4	CSF	1400
56914	76	CSF exclusive	CSF-USM_183_IGM	IGHV3-11	CASGYNGPFEYW	IGHJ4	CSF	36
56914	77	CSF exclusive	CSF-USM_183_IGM	IGHV1-18	CASTSGSYSQDAFDIW	IGHJ3	CSF	78
56914	78	CSF exclusive	CSF-USM_183_IGM	IGHV3-23	CATADWFLTNPMDVW	IGHJ6	CSF	28
56914	79	CSF exclusive	CSF-USM_183_IGM	IGHV3-66	CTRDLSTDATYSSGSGSYSLAYW	IGHJ4	CSF	16
56914	80	CSF exclusive	CSF-USM_183_IGM	IGHV3-7	CVRDGGWSRSRW	IGHJ4	CSF	223
56914	81	CSF exclusive	CSF-USM_183_IGM	IGHV3-53	CVRQEYSNDRGYHYHYMDVW	IGHJ6	CSF	29
57114	1	CSF exclusive	CSF-DN_39_IGG	IGHV3-30	CAGGEVIDYW	IGHJ4	CSF	14
57114	2	CSF exclusive	CSF-DN_39_IGG	IGHV3-13	CARDLQYSGYDLW	IGHJ5	CSF	2316
57114	3	Connecting to PB	CSF-PC_15_IGG	IGHV6-1	CARDDDSSGNSLDYW	IGHJ4	CSF	1
57114	3	Connecting to PB	SM_132949_IGG	IGHV6-1	CARDDDSSGNSLDYW	IGHJ4	PB	1
57114	3	Connecting to PB	DN_33437_IGG	IGHV6-1	CARDDDSSGNSLDYW	IGHJ4	PB	2
57114	3	Connecting to PB	DN_33437_IGG	IGHV6-1	CARDDDSSGNSLDYW	IGHJ4	PB	1378
57114	4	CSF exclusive	CSF-PC_15_IGG	IGHV3-30	CARDGNVGLDMMSFHFDW	IGHJ4	CSF	1062
57114	5	Connecting to PB	CSF-PC_15_IGG	IGHV3-11	CARDQVLAGTALDYW	IGHJ4	CSF	1
57114	5	Connecting to PB	SM_132949_IGG	IGHV3-11	CARDQVLAGTALDYW	IGHJ4	PB	11
57114	5	Connecting to PB	PC_854_IGG	IGHV3-11	CARDQVLAGTALDYW	IGHJ4	PB	9166
57114	6	CSF exclusive	CSF-PC_15_IGG	IGHV4-59	CARDRGMVGGHFYYLDVW	IGHJ6	CSF	14
57114	7	Connecting to PB	CSF-PC_15_IGG	IGHV4-59	CARDRGMVGGHFYYLDVW	IGHJ6	CSF	5373
57114	7	Connecting to PB	PC_854_IGG	IGHV4-59	CARDRGMVGGHFYYLDVW	IGHJ6	PB	3
57114	7	Connecting to PB	SM_132949_IGG	IGHV4-59	CARDRGMVGGHFYYLDVW	IGHJ6	PB	3
57114	8	Connecting to PB	CSF-PC_15_IGG	IGHV4-4	CARDVTMSLW	IGHJ4	CSF	1
57114	8	Connecting to PB	DN_33437_IGG	IGHV4-4	CARDVTMSLW	IGHJ4	PB	2
57114	8	Connecting to PB	PC_854_IGM	IGHV4-4	CARDVTMSLW	IGHJ4	PB	7
57114	8	Connecting to PB	SM_132949_IGG	IGHV4-4	CARDVTMSLW	IGHJ4	PB	67
57114	8	Connecting to PB	PC_854_IGG	IGHV4-4	CARDVTMSLW	IGHJ4	PB	29164
57114	9	CSF exclusive	CSF-PC_15_IGG	IGHV4-34	CAREVVGSTYFDSW	IGHJ4	CSF	26547
57114	10	Connecting to PB	CSF-PC_15_IGG	IGHV4-28	CAREVVGSTYLDNR	IGHJ4	CSF	51
57114	10	Connecting to PB	DN_33437_IGG	IGHV4-28	CAREVVGSTYFDLW	IGHJ4	PB	3
57114	10	Connecting to PB	SM_132949_IGG	IGHV4-28	CAREVVGSTYFDSW	IGHJ4	PB	223
57114	11	CSF exclusive	CSF-PC_15_IGG	IGHV4-34	CARGGKDSALLWGRYYYYYMDVW	IGHJ6	CSF	4238
57114	12	Connecting to PB	CSF-PC_15_IGG	IGHV1-18	CARGHIAARPPSLNYHFYMDVW	IGHJ6	CSF	1
57114	12	Connecting to PB	CSF-PC_15_IGG	IGHV1-18	CARGHIAVRPPSLNYCFYMDVW	IGHJ6	CSF	1
57114	12	Connecting to PB	CSF-SM_69_IGG	IGHV1-18	CARGHIAARPPSLNYFYMDVW	IGHJ6	CSF	17
57114	12	Connecting to PB	CSF-PC_15_IGG	IGHV1-18	CARGHIAARPPSLNYFYMDVW	IGHJ6	CSF	92766
57114	12	Connecting to PB	SM_132949_IGG	IGHV1-18	CARGHIAARPPSLNYFYMDVW	IGHJ6	PB	4
57114	12	Connecting to PB	PC_854_IGG	IGHV1-18	CARGHIAARPPSLNYFYMDVW	IGHJ6	PB	9
57114	13	CSF exclusive	CSF-PC_15_IGG	IGHV1-18	CARGHIAATFSLNYFYMDVW	IGHJ6	CSF	1

57114	14	CSF exclusive	CSF-PC_15_IGG	IGHV1-18	CARGHIVARPFPLNYFYTDVW	IGHJ6	CSF	1
57114	15	CSF exclusive	CSF-PC_15_IGG	IGHV2-70	CARLRRSGDYIYRPFPGYQYLGMDVW	IGHJ6	CSF	1
57114	16	CSF exclusive	CSF-PC_15_IGG	IGHV2-5	CARMRRSGDYIYRPFPGYQYFGTVDW	IGHJ6	CSF	1
57114	17	Connecting to PB	CSF-PC_15_IGG	IGHV2-70	CARMRRSGDYIYRPFPGYQYFGMDVW	IGHJ6	CSF	32330
57114	17	Connecting to PB	PC_854_IGG	IGHV2-70	CARMRRSGDYIYRPFPGYQYFGMDVW	IGHJ6	PB	2
57114	17	Connecting to PB	SM_132949_IGG	IGHV2-70	CARMRRSGDYIYRPFPGYQYFGMDVW	IGHJ6	PB	25
57114	18	Connecting to PB	CSF-PC_15_IGG	IGHV3-74	CARSGGVLW	IGHJ5	CSF	2
57114	18	Connecting to PB	CSF-SM_69_IGG	IGHV3-74	CAESGGVLW	IGHJ5	CSF	4
57114	18	Connecting to PB	SM_132949_IGG	IGHV3-74	CARSGGVLW	IGHJ5	PB	16
57114	19	CSF exclusive	CSF-PC_15_IGG	IGHV3-11	CARVALRPFNSDFWSGYDTQYFDYW	IGHJ4	CSF	127
57114	20	Connecting to PB	CSF-SM_69_IGG	IGHV4-34	CAKPHDFGDYWFYFDLW	IGHJ2	CSF	1
57114	20	Connecting to PB	SM_132949_IGG	IGHV4-34	CAKPHDFGDYWFYFDLW	IGHJ2	PB	12
57114	20	Connecting to PB	PC_854_IGG	IGHV4-34	CAKPHDFGDYWFYFDLW	IGHJ2	PB	24325
57114	21	CSF exclusive	CSF-SM_69_IGG	IGHV1-18	CARDDFWHGFLDYW	IGHJ4	CSF	26
57114	22	CSF exclusive	CSF-SM_69_IGG	IGHV1-2	CARDDFWHGLFDYW	IGHJ4	CSF	18
57114	22	CSF exclusive	CSF-SM_69_IGG	IGHV1-2	CARDDFWHGSFDYW	IGHJ4	CSF	147
57114	23	Connecting to PB	CSF-SM_69_IGG	IGHV6-1	CARDLPRTHAFDMW	IGHJ3	CSF	15
57114	23	Connecting to PB	CSF-SM_69_IGM	IGHV6-1	CARDLPRTHAFDMW	IGHJ3	CSF	5360
57114	23	Connecting to PB	Naive_200000_IGM	IGHV6-1	CARDLPRTHAFDIW	IGHJ3	PB	2
57114	23	Connecting to PB	USM_200000_IGM	IGHV6-1	CARDLPRTHAFDMW	IGHJ3	PB	37
57114	24	CSF exclusive	CSF-SM_69_IGG	IGHV4-4	CARDPSYCDGGGSCYDKPYYGIDVW	IGHJ6	CSF	7
57114	25	Connecting to PB	CSF-SM_69_IGG	IGHV4-4	CARDPSYCDGGGSCYDKPYYGIDVW	IGHJ6	CSF	983
57114	25	Connecting to PB	SM_132949_IGG	IGHV4-4	CARDPSYCDGGGSCYDKPYYGIDVW	IGHJ6	PB	9
57114	26	Connecting to PB	CSF-SM_69_IGG	IGHV1-18	CARDRGYDTRLFDYW	IGHJ4	CSF	10189
57114	26	Connecting to PB	DN_33437_IGG	IGHV1-18	CARDWGYDTRLFDYW	IGHJ4	PB	1
57114	27	Connecting to PB	CSF-SM_69_IGG	IGHV3-21	CAREGVGANGNDAFDIW	IGHJ3	CSF	8871
57114	27	Connecting to PB	SM_132949_IGG	IGHV3-21	CAREGVGANGNDAFDIW	IGHJ3	PB	1
57114	27	Connecting to PB	SM_132949_IGM	IGHV3-21	CVREGVGASGNDAFDIW	IGHJ3	PB	2
57114	28	CSF exclusive	CSF-SM_69_IGG	IGHV1-3	CARGCSGGCGWYMDVW	IGHJ6	CSF	719
57114	29	CSF exclusive	CSF-SM_69_IGG	IGHV3-30	CARGIVGPTYYYAMVW	IGHJ6	CSF	684
57114	30	CSF exclusive	CSF-SM_69_IGG	IGHV4-4	CARGPEPYCSSSTCYDVHVDYW	IGHJ4	CSF	3569
57114	31	CSF exclusive	CSF-SM_69_IGG	IGHV2-70	CARDLWEPDTGGYEGWFDPW	IGHJ5	CSF	2088
57114	32	CSF exclusive	CSF-SM_69_IGG	IGHV1-69	CARNVLRFLLEGKPTYYCGMDVW	IGHJ6	CSF	3824
57114	33	CSF exclusive	CSF-SM_69_IGG	IGHV3-21	CARPSSGSGIDGMDVW	IGHJ6	CSF	155
57114	33	CSF exclusive	CSF-SM_69_IGM	IGHV3-21	CARPSSGSGIDGMDVW	IGHJ6	CSF	1969
57114	34	Connecting to PB	CSF-SM_69_IGG	IGHV4-34	CARRTNAFDIW	IGHJ3	CSF	2772
57114	34	Connecting to PB	SM_132949_IGG	IGHV4-34	CARRNNAFDIW	IGHJ3	PB	364
57114	35	CSF exclusive	CSF-SM_69_IGG	IGHV3-74	CARSGGVLW	IGHJ4	CSF	1632
57114	36	CSF exclusive	CSF-SM_69_IGG	IGHV3-48	CARVRTNWNWAFDPW	IGHJ5	CSF	464
57114	37	CSF exclusive	CSF-SM_69_IGG	IGHV3-21	CASKQWVDYFYMDVW	IGHJ6	CSF	1116
57114	38	Connecting to PB	CSF-SM_69_IGM	IGHV3-7	CGRDRGDTMTMTW	IGHJ5	CSF	1
57114	38	Connecting to PB	CSF-SM_69_IGM	IGHV3-7	RGRDRGDTVTMTW	IGHJ5	CSF	1
57114	38	Connecting to PB	CSF-SM_69_IGG	IGHV3-7	CGRDRGDTVTMTW	IGHJ5	CSF	33
57114	38	Connecting to PB	CSF-SM_69_IGM	IGHV3-7	CGRDRGDTVTMTW	IGHJ5	CSF	39
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CARDRGYTATTTW	IGHJ5	PB	1
57114	38	Connecting to PB	DN_33437_IGM	IGHV3-7	CTRDRYNTSTAW	IGHJ5	PB	1
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CARDRGNTATTTW	IGHJ5	PB	2
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CARDRGNTVTLTW	IGHJ5	PB	2
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CGKDRGDTVTMTW	IGHJ5	PB	2
57114	38	Connecting to PB	Naive_200000_IGM	IGHV3-7	CGRDRGNTVTTTW	IGHJ5	PB	2
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTRDRGNTTMTW	IGHJ5	PB	2
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CARERGNTATMTW	IGHJ5	PB	4
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTRDRGNTATLTW	IGHJ5	PB	4
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTRDRGNTATPTW	IGHJ5	PB	4
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTRDRGNTATTAW	IGHJ5	PB	4
57114	38	Connecting to PB	SM_132949_IGM	IGHV3-7	CTRDRGNTVSTTW	IGHJ5	PB	4
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTRDRGNTVTTTW	IGHJ5	PB	4
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTKDRGNTATTTW	IGHJ5	PB	5
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CARERGNTATTTW	IGHJ5	PB	6
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTKDRGNTATTTW	IGHJ5	PB	7
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTKDRGNTLTTTW	IGHJ5	PB	7
57114	38	Connecting to PB	SM_132949_IGM	IGHV3-7	CARERGMATTTW	IGHJ5	PB	9
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CGRDRGNTVTTTW	IGHJ5	PB	9
57114	38	Connecting to PB	SM_132949_IGG	IGHV3-7	CSRDRGNTVTTAW	IGHJ5	PB	10
57114	38	Connecting to PB	SM_132949_IGM	IGHV3-7	CARERGFATTTDW	IGHJ5	PB	13
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CARERGMATTTW	IGHJ5	PB	21
57114	38	Connecting to PB	USM_200000_IGM	IGHV3-7	CTRDRGNTATTTW	IGHJ5	PB	23
57114	38	Connecting to PB	SM_132949_IGM	IGHV3-7	CTRDRGNTVTTTW	IGHJ5	PB	24
57114	38	Connecting to PB	DN_33437_IGM	IGHV3-7	CTRDRYNTASTAW	IGHJ5	PB	31
57114	39	CSF exclusive	CSF-SM_69_IGG	IGHV3-21	CTADERRRQLSTLDYW	IGHJ4	CSF	1
57114	39	CSF exclusive	CSF-SM_69_IGM	IGHV3-21	CTADERRRQLSTLDYW	IGHJ4	CSF	3269
57114	40	CSF exclusive	CSF-SM_69_IGG	IGHV4-34	CVRGGFYDKYSGYWCDFW	IGHJ4	CSF	6
57114	40	CSF exclusive	CSF-SM_69_IGG	IGHV4-34	CVRGGFYDKYSGYWDFW	IGHJ4	CSF	937
57114	41	Connecting to PB	CSF-USM_22_IGM	IGHV2-5	CAHRSTMVSDNW	IGHJ4	CSF	1
57114	41	Connecting to PB	CSF-SM_69_IGM	IGHV2-5	CAHRTTVTSVDNW	IGHJ4	CSF	20
57114	41	Connecting to PB	CSF-USM_22_IGM	IGHV2-5	CAHRTMVTSDNW	IGHJ4	CSF	151
57114	41	Connecting to PB	CSF-USM_22_IGM	IGHV2-5	CAHRTTVTSVDNW	IGHJ4	CSF	16465
57114	41	Connecting to PB	SM_132949_IGM	IGHV2-5	CAHRTTVTSVDNW	IGHJ4	PB	1
57114	41	Connecting to PB	PC_854_IGM	IGHV2-5	CAHRTTVTSVDNW	IGHJ4	PB	4
57114	41	Connecting to PB	USM_200000_IGM	IGHV2-5	CVHRTTVTSVDHW	IGHJ4	PB	6
57114	41	Connecting to PB	USM_200000_IGM	IGHV2-5	CAHRTTVTSVDNW	IGHJ4	PB	37
57114	41	Connecting to PB	SM_132949_IGG	IGHV2-5	CAHRTTVTSVDYW	IGHJ4	PB	77
57114	42	CSF exclusive	CSF-SM_69_IGM	IGHV3-21	CARASEGSTWYSALFYW	IGHJ4	CSF	3054
57114	43	Connecting to PB	CSF-SM_69_IGM	IGHV1-3	CVDRMYWYFDLW	IGHJ2	CSF	1
57114	43	Connecting to PB	CSF-SM_69_IGM	IGHV1-3	CARDRMYWYFDLW	IGHJ2	CSF	13

57114	43	Connecting to PB	CSF-USM_22_IGM	IGHV1-3	CARDRMWYFDLW	IGHJ2	CSF	9403
57114	43	Connecting to PB	SM_132949_IGM	IGHV1-3	CARDRMWYFDLR	IGHJ2	PB	1
57114	43	Connecting to PB	USM_200000_IGM	IGHV1-3	CARDWSYWFDLW	IGHJ2	PB	25
57114	43	Connecting to PB	USM_200000_IGM	IGHV1-3	CARDRMWYFDLW	IGHJ2	PB	41
57114	44	CSF exclusive	CSF-SM_69_IGM	IGHV3-30	CARGIAGPTYYYYAMDVW	IGHJ3	CSF	1
57114	45	Connecting to PB	CSF-SM_69_IGM	IGHV4-59	CARGVYGDSDGYW	IGHJ4	CSF	8933
57114	45	Connecting to PB	USM_200000_IGM	IGHV4-59	CARGVYGDSDGYW	IGHJ4	PB	8
57114	46	CSF exclusive	CSF-SM_69_IGM	IGHV3-11	CARTWGHYSDYW	IGHJ4	CSF	848
57114	47	Connecting to PB	CSF-SM_69_IGM	IGHV3-72	CGDIGGAPTPYL	IGHJ4	CSF	1210
57114	47	Connecting to PB	SM_132949_IGG	IGHV3-72	CGDIGGAPTPYL	IGHJ4	PB	5
57114	48	CSF exclusive	CSF-SM_69_IGM	IGHV3-7	CGRDRGDTVTMTWQGLTVTVSSDVW	IGHJ6	CSF	147
57114	49	CSF exclusive	CSF-SM_69_IGM	IGHV3-48	CTRTWEHDYSDYW	IGHJ4	CSF	1
57114	50	CSF exclusive	CSF-SM_69_IGM	IGHV3-15	CTTGLDSGVYDHDWVKW	IGHJ5	CSF	161
57114	51	Connecting to PB	CSF-USM_22_IGM	IGHV4-55	CAIIVAKKIDSW	IGHJ4	CSF	2138
57114	51	Connecting to PB	USM_200000_IGM	IGHV4-55	CAIILAKKIDSW	IGHJ4	PB	48
57114	51	Connecting to PB	SM_132949_IGM	IGHV4-55	CAIIVAKKIDSW	IGHJ4	PB	53
57114	51	Connecting to PB	USM_200000_IGM	IGHV4-55	CAIIVAKKIDSW	IGHJ4	PB	130
57114	52	Connecting to PB	CSF-USM_22_IGM	IGHV1-3	CARDERWGPYFSVYW	IGHJ4	CSF	9
57114	52	Connecting to PB	CSF-USM_22_IGM	IGHV1-3	CARDERWGPYFFVYW	IGHJ4	CSF	45
57114	52	Connecting to PB	CSF-USM_22_IGM	IGHV1-3	CARDERWGPYFLVYW	IGHJ4	CSF	1260
57114	52	Connecting to PB	SM_132949_IGG	IGHV1-3	CARDERLGPYFFEYW	IGHJ4	PB	1
57114	52	Connecting to PB	SM_132949_IGG	IGHV1-3	CARDERWGPYFFVYW	IGHJ4	PB	3
57114	52	Connecting to PB	SM_132949_IGG	IGHV1-3	CARDEKLGYPFFDFW	IGHJ4	PB	11
57114	52	Connecting to PB	SM_132949_IGG	IGHV1-3	CARDEKLGYPFFFEW	IGHJ4	PB	12
57114	52	Connecting to PB	SM_132949_IGG	IGHV1-3	CSRDERLGPYFFTYW	IGHJ4	PB	13
57114	53	Connecting to PB	CSF-USM_22_IGM	IGHV4-4	CARDMASVFDYW	IGHJ4	CSF	5294
57114	53	Connecting to PB	USM_200000_IGM	IGHV4-4	CAGDMASVFDYW	IGHJ4	PB	1
57114	53	Connecting to PB	SM_132949_IGG	IGHV4-4	CARDTASVLDLW	IGHJ4	PB	1
57114	53	Connecting to PB	SM_132949_IGG	IGHV4-4	CARDMASVLDLW	IGHJ4	PB	2
57114	53	Connecting to PB	USM_200000_IGM	IGHV4-4	CARDMASVFDLW	IGHJ4	PB	3
57114	53	Connecting to PB	SM_132949_IGG	IGHV4-4	CARDMASVDFW	IGHJ4	PB	8
57114	53	Connecting to PB	SM_132949_IGG	IGHV4-4	CARDMASVFDLW	IGHJ4	PB	11
57114	53	Connecting to PB	SM_132949_IGG	IGHV4-4	CARDMASVLDLW	IGHJ4	PB	15
57114	53	Connecting to PB	DN_33437_IGG	IGHV4-4	CARDMASVFDLW	IGHJ4	PB	18
57114	53	Connecting to PB	USM_200000_IGM	IGHV4-4	CARDMASVFDYW	IGHJ4	PB	34
57114	54	CSF exclusive	CSF-USM_22_IGM	IGHV3-74	CARDPVDGSGHLDYW	IGHJ4	CSF	88
57114	55	CSF exclusive	CSF-USM_22_IGM	IGHV3-21	CARDRSGLVVAATRSVYNWFDPW	IGHJ5	CSF	297
57114	56	CSF exclusive	CSF-USM_22_IGM	IGHV3-74	CAREDMDSFYFDYW	IGHJ4	CSF	7
57114	57	CSF exclusive	CSF-USM_22_IGM	IGHV5-51	CARGFRDGMVW	IGHJ6	CSF	3
57114	57	CSF exclusive	CSF-USM_22_IGM	IGHV5-51	CARGYRDGMVW	IGHJ6	CSF	319
57114	58	Connecting to PB	CSF-USM_22_IGM	IGHV1-3	CARGIWSSSSDYYFDNW	IGHJ4	CSF	665
57114	58	Connecting to PB	USM_200000_IGM	IGHV1-3	CARGIWSSSSADYYLDHW	IGHJ4	PB	1
57114	58	Connecting to PB	USM_200000_IGM	IGHV1-3	CARGIWTSSADYYLDHW	IGHJ4	PB	8
57114	58	Connecting to PB	USM_200000_IGM	IGHV1-3	CARGIWSSSSDYYFDNW	IGHJ4	PB	25
57114	58	Connecting to PB	SM_132949_IGM	IGHV1-3	CARGIWSSSSDYYLDYW	IGHJ4	PB	74
57114	59	Connecting to PB	CSF-USM_22_IGM	IGHV3-74	CARPVGITVGVVYW	IGHJ4	CSF	163
57114	59	Connecting to PB	CSF-USM_22_IGM	IGHV3-74	CARPVGIAGVGVVYW	IGHJ4	CSF	364
57114	59	Connecting to PB	CSF-USM_22_IGM	IGHV3-74	CARPVGIAGVGVVYW	IGHJ4	CSF	1946
57114	59	Connecting to PB	USM_200000_IGM	IGHV3-74	CARPVGIAGVGVVYW	IGHJ4	PB	2
57114	59	Connecting to PB	SM_132949_IGM	IGHV3-74	CARPVGLKVGVDYW	IGHJ4	PB	19
57114	59	Connecting to PB	USM_200000_IGM	IGHV3-74	CARPVGIAGVGVVYW	IGHJ4	PB	24
57114	60	Connecting to PB	CSF-USM_22_IGM	IGHV3-11	CARRYCSTTSCTHDYW	IGHJ4	CSF	1020
57114	60	Connecting to PB	USM_200000_IGM	IGHV3-11	CARRYCSTTSCTHDYW	IGHJ4	PB	2
57114	60	Connecting to PB	USM_200000_IGM	IGHV3-11	CARRYCSTTSCTHDYW	IGHJ4	PB	2
57114	60	Connecting to PB	SM_132949_IGM	IGHV3-11	CARRYCSTTSCTHDYW	IGHJ4	PB	6
57114	60	Connecting to PB	USM_200000_IGM	IGHV3-11	CARRYCSTTSCTHDYW	IGHJ4	PB	77
57114	61	CSF exclusive	CSF-USM_22_IGM	IGHV4-39	CARSYAYDWGYC	IGHJ4	CSF	5
57114	62	Connecting to PB	CSF-USM_22_IGM	IGHV4-4	CASRIAAAYDYW	IGHJ4	CSF	319
57114	62	Connecting to PB	USM_200000_IGM	IGHV4-4	CASLIAGVAGYDYW	IGHJ4	PB	1
57114	62	Connecting to PB	USM_200000_IGM	IGHV4-4	CASRIAVAGYGYW	IGHJ4	PB	1
57114	62	Connecting to PB	Naive_200000_IGM	IGHV4-4	CASRIAVAGYDYW	IGHJ4	PB	2
57114	62	Connecting to PB	USM_200000_IGM	IGHV4-4	CASRMVAVAGYDYW	IGHJ4	PB	2
57114	62	Connecting to PB	SM_132949_IGG	IGHV4-4	CASRQDVAAYDYW	IGHJ4	PB	2
57114	62	Connecting to PB	USM_200000_IGM	IGHV4-4	CASRIAVAGPDYW	IGHJ4	PB	5
57114	62	Connecting to PB	USM_200000_IGM	IGHV4-4	CASRVAVPGPDYW	IGHJ4	PB	6
57114	62	Connecting to PB	USM_200000_IGM	IGHV4-4	CASRIAVPGYDYW	IGHJ4	PB	8
57114	62	Connecting to PB	SM_132949_IGM	IGHV4-4	CASRLAAAYDYW	IGHJ4	PB	26
57114	62	Connecting to PB	SM_132949_IGG	IGHV4-4	CASRLDVAAYDYW	IGHJ4	PB	43
57114	62	Connecting to PB	USM_200000_IGM	IGHV4-4	CASRIAVAGYDYW	IGHJ4	PB	52
57114	62	Connecting to PB	USM_200000_IGM	IGHV4-4	CASRIAAAYDYW	IGHJ4	PB	68
57114	63	CSF exclusive	CSF-USM_22_IGM	IGHV4-55	CVRDFWSGYCNFDSW	IGHJ4	CSF	7
57114	64	CSF exclusive	CSF-USM_22_IGM	IGHV4-4	CVRDFWSGYCNFDSW	IGHJ4	CSF	120
57114	65	CSF exclusive	CSF-USM_22_IGM	IGHV3-48	CVRGGMSRYGMDVW	IGHJ6	CSF	1
57114	66	Connecting to PB	CSF-USM_22_IGM	IGHV5-51	YARHEPAGGRGYSGYDRLVDYW	IGHJ4	CSF	1
57114	66	Connecting to PB	Naive_200000_IGM	IGHV5-51	CARHEPAGGRGYSGYDRLVDYW	IGHJ4	PB	4
57414	1	Connecting to PB	CSF-DN_15_IGG	IGHV2-5	CAHRKESCSAYCSAYSNGMDVW	IGHJ6	CSF	1
57414	1	Connecting to PB	SM_114480_IGG	IGHV2-5	CAHRKESCSAYCSAYSNGMDVW	IGHJ6	PB	66
57414	2	CSF exclusive	CSF-DN_15_IGG	IGHV4-39	CANAIPAYYGSWWFDPW	IGHJ5	CSF	1750
57414	3	Connecting to PB	CSF-DN_15_IGG	IGHV4-59	CAREYSSFDYW	IGHJ4	CSF	83
57414	3	Connecting to PB	SM_114480_IGG	IGHV4-59	CAREWSSFDYW	IGHJ4	PB	60
57414	3	Connecting to PB	SM_114480_IGG	IGHV4-59	CAREWSGLDYW	IGHJ4	PB	77
57414	3	Connecting to PB	SM_114480_IGG	IGHV4-59	CAREWSAFDYW	IGHJ4	PB	269
57414	4	CSF exclusive	CSF-DN_15_IGG	IGHV4-34	CARGHEDFTEMAIGGDAFHIW	IGHJ3	CSF	110
57414	5	CSF exclusive	CSF-DN_15_IGG	IGHV4-59	CARGSLYSSGWHLRAPDIW	IGHJ3	CSF	1433

57414	6	CSF exclusive	CSF-DN_15_IGG	IGHV4-59	CARHFPYGNLFDGFNIW	IGHJ3	CSF	890
57414	7	CSF exclusive	CSF-DN_15_IGG	IGHV4-39	CARLPLDILTGYLDSW	IGHJ4	CSF	16844
57414	8	CSF exclusive	CSF-DN_15_IGG	IGHV4-39	CARQGETLVVPAALYFDYW	IGHJ4	CSF	727
57414	9	CSF exclusive	CSF-DN_15_IGG	IGHV4-31	CARRGTYFYFDYW	IGHJ4	CSF	2514
57414	10	CSF exclusive	CSF-DN_15_IGG	IGHV4-31	CARSSLWHFGGYGTYFDHW	IGHJ4	CSF	1566
57414	11	Connecting to PB	CSF-DN_15_IGG	IGHV3-9	CVKDEDSVTASFLDNW	IGHJ4	CSF	1
57414	11	Connecting to PB	SM_114480_IGG	IGHV3-9	CVKDEDSVTASFLDNW	IGHJ4	PB	15
57414	12	CSF exclusive	CSF-DN_15_IGG	IGHV2-70	CVRSSYGDYADPW	IGHJ5	CSF	1
57414	13	Connecting to PB	CSF-DN_15_IGG	IGHV2-5	CVRSSYGDYADYW	IGHJ4	CSF	1
57414	13	Connecting to PB	PC_2902_IGG	IGHV2-5	CVRSSYGDYADYW	IGHJ4	PB	3
57414	13	Connecting to PB	SM_114480_IGG	IGHV2-5	CVRSSYGDYADYW	IGHJ4	PB	12571
57414	14	CSF exclusive	CSF-PC_13_IGG	IGHV2-5	CAHRRGEDFDYSPFTRHNWFDPW	IGHJ5	CSF	20357
57414	15	Connecting to PB	CSF-PC_13_IGG	IGHV4-34	CARARYCSDNSCLGRNWFDPW	IGHJ5	CSF	43884
57414	15	Connecting to PB	SM_114480_IGG	IGHV4-34	CARARYCSDNSCLGRNWFDPW	IGHJ5	PB	66
57414	16	Connecting to PB	CSF-PC_13_IGG	IGHV4-59	CARDRSGSYFSFESW	IGHJ4	CSF	1
57414	16	Connecting to PB	SM_114480_IGG	IGHV4-59	CARDRSGTYFSFDSW	IGHJ4	PB	38
57414	16	Connecting to PB	PC_2902_IGG	IGHV4-59	CARDRSGSYFSFESW	IGHJ4	PB	1905
57414	17	CSF exclusive	CSF-PC_13_IGG	IGHV4-59	CARDSYGLPDYW	IGHJ4	CSF	1
57414	18	CSF exclusive	CSF-SM_68_IGG	IGHV3-7	CARDSVVPDSPVYLPYFDYW	IGHJ4	CSF	565
57414	18	CSF exclusive	CSF-PC_13_IGG	IGHV3-7	CARDTVVPDSPVYLPYFDYW	IGHJ4	CSF	741
57414	18	CSF exclusive	CSF-SM_68_IGG	IGHV3-7	CARDTVVPDSPVYLPYFDYW	IGHJ4	CSF	2728
57414	19	CSF exclusive	CSF-PC_13_IGG	IGHV4-59	CARGVNHHDGTGNYLGSQDQVW	IGHJ6	CSF	1
57414	20	CSF exclusive	CSF-PC_13_IGG	IGHV4-59	CARGVNYHDSTGNYLGSGLDVW	IGHJ6	CSF	15747
57414	21	CSF exclusive	CSF-PC_13_IGG	IGHV4-39	CARTVVPFFQYFDYW	IGHJ4	CSF	13593
57414	22	Connecting to PB	CSF-PC_13_IGG	IGHV1-3	CARVPLVVTSTFDW	IGHJ4	CSF	1
57414	22	Connecting to PB	DN_22710_IGG	IGHV1-3	CARVPLVVTSTFDW	IGHJ4	PB	488
57414	23	Connecting to PB	CSF-PC_13_IGG	IGHV4-39	CASYTVPTSTFYDYW	IGHJ4	CSF	1
57414	23	Connecting to PB	SM_114480_IGG	IGHV4-39	CASYTVPASFYDFW	IGHJ4	PB	34
57414	23	Connecting to PB	SM_114480_IGG	IGHV4-39	CASYTVPASFYDYW	IGHJ4	PB	132
57414	23	Connecting to PB	PC_2902_IGG	IGHV4-39	CASYTVPASFYDYW	IGHJ4	PB	1220
57414	23	Connecting to PB	PC_2902_IGG	IGHV4-39	CASYTVPTSTFYDYW	IGHJ4	PB	1972
57414	23	Connecting to PB	SM_114480_IGG	IGHV4-39	CASYTVPTSTFYDYW	IGHJ4	PB	2766
57414	24	Connecting to PB	CSF-PC_13_IGG	IGHV1-46	CTRDTPHANLDYW	IGHJ4	CSF	1
57414	24	Connecting to PB	SM_114480_IGG	IGHV1-46	CTRDTPHANLDYW	IGHJ4	PB	218
57414	25	CSF exclusive	CSF-PC_13_IGG	IGHV3-42	LGSGLDVW	IGHJ6	CSF	1
57414	26	CSF exclusive	CSF-SM_68_IGG	IGHV1-18	CARDSLKNYDPLTGFFSPVLTFDYW	IGHJ4	CSF	26706
57414	27	CSF exclusive	CSF-SM_68_IGG	IGHV3-7	CARDTLDYYGASGYLRLYFDNW	IGHJ4	CSF	32
57414	28	Connecting to PB	CSF-SM_68_IGG	IGHV1-69	CAREYPELDALDIW	IGHJ3	CSF	2
57414	28	Connecting to PB	SM_114480_IGG	IGHV1-69	CAREYPELDALDIW	IGHJ3	PB	27
57414	29	Connecting to PB	CSF-SM_68_IGG	IGHV4-39	CARHRRYYGVPDYW	IGHJ4	CSF	1
57414	29	Connecting to PB	PC_2902_IGG	IGHV4-39	CARHRRYYGVPDYW	IGHJ4	PB	54
57414	29	Connecting to PB	PC_2902_IGG	IGHV4-39	CARHRRYYGVPDYW	IGHJ4	PB	2401
57414	30	CSF exclusive	CSF-SM_68_IGG	IGHV1-18	CARRAAGVSVYGYGMDVW	IGHJ6	CSF	3
57414	31	Connecting to PB	CSF-SM_68_IGG	IGHV5-51	CARSRRGGSYTYEVDYW	IGHJ4	CSF	10634
57414	31	Connecting to PB	SM_114480_IGG	IGHV5-51	CARSRRGGSYTYEVDYW	IGHJ4	PB	53
57414	32	CSF exclusive	CSF-SM_68_IGG	IGHV3-7	CARTRYSSRWYVTALDYW	IGHJ4	CSF	331
57414	33	CSF exclusive	CSF-SM_68_IGM	IGHV3-23	CAREGNSIDGYNTLRAYW	IGHJ4	CSF	11
57414	34	Connecting to PB	CSF-USM_17_IGM	IGHV4-59	CARIWGSDDYDYDMDVW	IGHJ6	CSF	1
57414	34	Connecting to PB	CSF-USM_17_IGM	IGHV4-59	CARIWGSDDYDYDMDVW	IGHJ6	CSF	1
57414	34	Connecting to PB	CSF-SM_68_IGM	IGHV4-59	CARIWGSDDYDYDMDVW	IGHJ6	CSF	38
57414	34	Connecting to PB	CSF-USM_17_IGM	IGHV4-59	CARIWGSDDYDYDMDVW	IGHJ6	CSF	31603
57414	34	Connecting to PB	SM_114480_IGM	IGHV4-59	CARIWGSDDYDYDMDVW	IGHJ6	PB	12
57414	35	CSF exclusive	CSF-USM_17_IGM	IGHV3-23	CARESPNDPQYDFWGGYIGRFDW	IGHJ4	CSF	4442
57414	36	Connecting to PB	CSF-USM_17_IGM	IGHV4-39	CARHIGYDSSGYLYYFDYW	IGHJ4	CSF	2
57414	36	Connecting to PB	USM_66564_IGM	IGHV4-39	CARHIGYDSSGYLYYFDYW	IGHJ4	PB	4
57414	37	CSF exclusive	CSF-USM_17_IGM	IGHV4-59	CARIWGSDDYDYDMDVW	IGHJ6	CSF	1292
57414	38	CSF exclusive	CSF-USM_17_IGM	IGHV4-59	CARIWGSDDYDYDMDVW	IGHJ6	CSF	375
57414	39	CSF exclusive	CSF-USM_17_IGM	IGHV4-59	CARIWGSDDYDYDMDVW	IGHJ6	CSF	5
57414	40	Connecting to PB	CSF-USM_17_IGM	IGHV4-39	CASRSIAVAEDW	IGHJ4	CSF	2
57414	40	Connecting to PB	DN_22710_IGM	IGHV4-39	CASRSIAVAEDW	IGHJ4	PB	570
57414	41	Connecting to PB	CSF-USM_17_IGM	IGHV3-15	CTPWSGMDVW	IGHJ6	CSF	3
57414	41	Connecting to PB	USM_66564_IGM	IGHV3-15	CAPWSGLDVW	IGHJ6	PB	2
57414	41	Connecting to PB	PC_2902_IGG	IGHV3-15	CTPWSGLDVW	IGHJ6	PB	92
57414	41	Connecting to PB	PC_2902_IGM	IGHV3-15	CTPWSGMDVW	IGHJ6	PB	490
57514	1	CSF exclusive	CSF-DN_83_IGG	IGHV4-59	CAGSLRWRQVRMDYW	IGHJ4	CSF	105
57514	2	CSF exclusive	CSF-DN_83_IGG	IGHV3-9	CAKDIGASGYGFDYW	IGHJ4	CSF	20
57514	3	CSF exclusive	CSF-DN_83_IGG	IGHV3-9	CAKDISDWYGVVDVW	IGHJ6	CSF	20
57514	4	Connecting to PB	CSF-DN_83_IGG	IGHV3-23	CAKDLGDPYGYGYGMDVW	IGHJ6	CSF	8
57514	4	Connecting to PB	SM_95720_IGG	IGHV3-23	CAKMLVDYGYGYGMDVW	IGHJ6	PB	4
57514	5	Connecting to PB	CSF-PC_120_IGG	IGHV3-9	CAKNGGGSFDPW	IGHJ5	CSF	4
57514	5	Connecting to PB	CSF-SM_460_IGM	IGHV3-9	CAKNGGGSFDPW	IGHJ5	CSF	4
57514	5	Connecting to PB	CSF-SM_460_IGG	IGHV3-9	CAKNGGGSFDPW	IGHJ5	CSF	5590
57514	5	Connecting to PB	CSF-DN_83_IGG	IGHV3-9	CAKNGGGSFDPW	IGHJ5	CSF	7690
57514	5	Connecting to PB	SM_95720_IGG	IGHV3-9	CAKNGGGSFDPW	IGHJ5	PB	11
57514	5	Connecting to PB	PC_1055_IGG	IGHV3-9	CAKNGGGSFDPW	IGHJ5	PB	13
57514	6	CSF exclusive	CSF-DN_83_IGG	IGHV3-30	CARDQWFEYDYGYGMDVW	IGHJ6	CSF	21
57514	7	CSF exclusive	CSF-PC_120_IGG	IGHV4-59	CARDRREDYSSGYPHLDVW	IGHJ6	CSF	1
57514	7	CSF exclusive	CSF-DN_83_IGG	IGHV4-59	CARDRREDYSSGYPRLDVW	IGHJ6	CSF	3
57514	8	CSF exclusive	CSF-PC_120_IGG	IGHV4-59	CARDRREDYSSGYPRLDVW	IGHJ6	CSF	689
57514	8	CSF exclusive	CSF-DN_83_IGG	IGHV4-59	CARDRREDYSSGYPRLDVW	IGHJ6	CSF	2197
57514	9	CSF exclusive	CSF-PC_120_IGG	IGHV1-3	CARDWYDSGWYFDYW	IGHJ4	CSF	2
57514	9	CSF exclusive	CSF-DN_83_IGG	IGHV1-3	CARDWYDSGWYFDYW	IGHJ4	CSF	254
57514	10	CSF exclusive	CSF-DN_83_IGG	IGHV3-30	CARERLAAAGTVFDYW	IGHJ4	CSF	19
57514	11	Connecting to PB	CSF-DN_83_IGG	IGHV1-69	CARFRAIHFDLW	IGHJ4	CSF	1824
57514	11	Connecting to PB	DN_18972_IGG	IGHV1-69	CARFRAIHFDLW	IGHJ4	PB	13

57514	12	Connecting to PB	CSF-DN_83_IGG	IGHV3-7	CARHGYSKCVLSW	IGHJ5	CSF	15
57514	12	Connecting to PB	SM_95720_IGG	IGHV3-7	CARHGYSKCVLSW	IGHJ5	PB	2
57514	13	CSF exclusive	CSF-DN_83_IGG	IGHV3-23	CARILSGSYLLDGLSGFDYW	IGHJ4	CSF	19
57514	14	Connecting to PB	CSF-DN_83_IGG	IGHV2-26	CARITGITIDYW	IGHJ4	CSF	1
57514	14	Connecting to PB	SM_95720_IGM	IGHV2-26	CARITGITIDYW	IGHJ4	PB	1
57514	14	Connecting to PB	SM_95720_IGM	IGHV2-26	CARVDGITIDYW	IGHJ4	PB	1
57514	14	Connecting to PB	SM_95720_IGG	IGHV2-26	CARITGITIDYW	IGHJ4	PB	15
57514	14	Connecting to PB	SM_95720_IGG	IGHV2-26	CARIDGITIDSW	IGHJ4	PB	56
57514	15	Connecting to PB	CSF-PC_120_IGG	IGHV2-26	CAQSLGRLETFGVLI SPNYHYGMDVW	IGHJ6	CSF	1
57514	15	Connecting to PB	CSF-DN_83_IGG	IGHV2-26	CARSLGRLEIFGVLI SPNHYYGMDVW	IGHJ6	CSF	1
57514	15	Connecting to PB	CSF-PC_120_IGG	IGHV2-26	CARSLGRLEIFGVLI SPNYHYGMDVW	IGHJ6	CSF	7678
57514	15	Connecting to PB	SM_95720_IGG	IGHV2-26	CARSLGRLEIFGVLI SPNYHYGMDVW	IGHJ6	PB	2
57514	16	CSF exclusive	CSF-DN_83_IGG	IGHV1-69	CSFWNYEPSGRYYNHYYGMDLW	IGHJ3	CSF	1
57514	17	CSF exclusive	CSF-DN_83_IGG	IGHV1-69	CSFWNYEPSGRYYNHYYGMDVW	IGHJ6	CSF	9
57514	18	CSF exclusive	CSF-Naive_112_IGM	IGHV1-24	CAADDRVETIKYYPDLW	IGHJ4	CSF	53
57514	19	CSF exclusive	CSF-Naive_112_IGM	IGHV5-51	CAASPKGSGWGRFDYW	IGHJ4	CSF	30
57514	20	CSF exclusive	CSF-Naive_112_IGM	IGHV2-5	CAHRLGYFGSGTLLFDYW	IGHJ4	CSF	234
57514	21	CSF exclusive	CSF-Naive_112_IGM	IGHV2-5	CAHSRSGSYYCYAMDVW	IGHJ6	CSF	1
57514	21	CSF exclusive	CSF-Naive_112_IGM	IGHV2-5	CAHSRSGSYYCYAMDVW	IGHJ6	CSF	3
57514	22	CSF exclusive	CSF-Naive_112_IGM	IGHV2-5	CAHTDYNYNFNFDPW	IGHJ5	CSF	1807
57514	23	CSF exclusive	CSF-Naive_112_IGM	IGHV3-9	CAKAKYSSSWREYFQHW	IGHJ1	CSF	153
57514	24	CSF exclusive	CSF-Naive_112_IGM	IGHV3-9	CAKDDGSSGWYFSGMDVW	IGHJ6	CSF	45
57514	25	CSF exclusive	CSF-Naive_112_IGM	IGHV3-23	CAKDGSSGWYGMVDVW	IGHJ6	CSF	34
57514	26	CSF exclusive	CSF-Naive_112_IGM	IGHV3-23	CAKDLHGGVWSSFDYW	IGHJ4	CSF	76
57514	27	CSF exclusive	CSF-Naive_112_IGM	IGHV3-9	CAKDLAADWGYYYGMDVW	IGHJ6	CSF	25
57514	28	CSF exclusive	CSF-Naive_112_IGM	IGHV3-23	CAKDLRUVYDSCGFDYW	IGHJ4	CSF	63
57514	29	CSF exclusive	CSF-Naive_112_IGM	IGHV3-30	CAKDLYSSGWYGFADIW	IGHJ3	CSF	66
57514	30	CSF exclusive	CSF-Naive_112_IGM	IGHV3-9	CAKDNRGYDFDYFDYW	IGHJ4	CSF	93
57514	31	CSF exclusive	CSF-Naive_112_IGM	IGHV3-9	CAKDRAYGSSGHIDYW	IGHJ4	CSF	58
57514	32	CSF exclusive	CSF-Naive_112_IGM	IGHV3-30	CAKEGDDYDSDGFDYW	IGHJ4	CSF	77
57514	33	CSF exclusive	CSF-Naive_112_IGM	IGHV3-23	CAKGIWRPLDGDYGFADIW	IGHJ3	CSF	21
57514	34	CSF exclusive	CSF-Naive_112_IGM	IGHV3-23	CAKSGWFGDLLSQDFDYW	IGHJ4	CSF	81
57514	35	CSF exclusive	CSF-Naive_112_IGM	IGHV3-23	CAKSSYYDILTLGLNDAFDIW	IGHJ3	CSF	119
57514	36	CSF exclusive	CSF-Naive_112_IGM	IGHV2-5	CALNSGGLVVAATSDFDPW	IGHJ5	CSF	383
57514	37	CSF exclusive	CSF-Naive_112_IGM	IGHV3-13	CARAGDQDWYFDLW	IGHJ2	CSF	126
57514	38	CSF exclusive	CSF-Naive_112_IGM	IGHV3-11	CARAGLPVDSGSYQQYDYW	IGHJ4	CSF	102
57514	39	CSF exclusive	CSF-Naive_112_IGM	IGHV3-74	CARAWNLLNGMDVW	IGHJ6	CSF	27
57514	40	Connecting to PB	CSF-Naive_112_IGM	IGHV1-3	CARDETYNSGRNYYW	IGHJ4	CSF	1
57514	40	Connecting to PB	USM_84463_IGM	IGHV1-3	CARDETYNSGRNYYW	IGHJ4	PB	129
57514	41	CSF exclusive	CSF-Naive_112_IGM	IGHV1-46	CARDGRSTTWDVHSDPW	IGHJ5	CSF	50
57514	42	CSF exclusive	CSF-Naive_112_IGM	IGHV3-7	CARDGTTEYSGSYTYYYGMDVW	IGHJ6	CSF	34
57514	43	Connecting to PB	CSF-Naive_112_IGM	IGHV3-53	RARDLGTAGTVYDAFDIW	IGHJ3	CSF	2
57514	43	Connecting to PB	CSF-Naive_112_IGM	IGHV3-53	CARDLGTGTVYDAFDIW	IGHJ3	CSF	166
57514	43	Connecting to PB	Naive_175179_IGM	IGHV3-53	CARDLGTGTVYDAFDIW	IGHJ3	PB	4
57514	44	Connecting to PB	CSF-Naive_112_IGM	IGHV3-21	CARDLYGDYVVDYW	IGHJ4	CSF	49
57514	44	Connecting to PB	USM_84463_IGM	IGHV3-21	CARDLYGDYSLDYW	IGHJ4	PB	3
57514	44	Connecting to PB	Naive_175179_IGM	IGHV3-21	CARDYDGYVVDYW	IGHJ4	PB	3
57514	45	CSF exclusive	CSF-Naive_112_IGM	IGHV3-48	CARDRHGDYQIDYW	IGHJ4	CSF	34
57514	46	CSF exclusive	CSF-Naive_112_IGM	IGHV3-21	CARDRRDYGADVW	IGHJ6	CSF	166
57514	47	Connecting to PB	CSF-Naive_112_IGM	IGHV1-18	CARDSTYYDSSGYYYTDLIDYW	IGHJ4	CSF	224
57514	47	Connecting to PB	Naive_175179_IGM	IGHV1-18	CARDSTYYDSSGYYYTDLIDYW	IGHJ4	PB	1
57514	48	CSF exclusive	CSF-Naive_112_IGM	IGHV4-59	CAREGYCSGGSCYSDAFDIW	IGHJ3	CSF	426
57514	49	CSF exclusive	CSF-Naive_112_IGM	IGHV4-4	CAREREYLLDYW	IGHJ4	CSF	625
57514	50	CSF exclusive	CSF-Naive_112_IGM	IGHV4-59	CARGANWGSTPFDPW	IGHJ4	CSF	324
57514	51	Connecting to PB	CSF-Naive_112_IGM	IGHV4-34	CARGAYNWNPAHYYYAMDVW	IGHJ6	CSF	5
57514	51	Connecting to PB	USM_84463_IGM	IGHV4-34	CARGAYNWNPAHYYYAMDVW	IGHJ6	PB	10
57514	51	Connecting to PB	USM_84463_IGM	IGHV4-34	CARGAYNWNPAHYYYALDVG	IGHJ6	PB	13
57514	52	CSF exclusive	CSF-Naive_112_IGM	IGHV1-46	CARGEYDSSGYLSW	IGHJ5	CSF	33
57514	53	CSF exclusive	CSF-Naive_112_IGM	IGHV1-8	CARGRGDYNNMDVW	IGHJ6	CSF	8
57514	54	CSF exclusive	CSF-Naive_112_IGM	IGHV3-43	CARGYSGYDYSYFDYW	IGHJ4	CSF	44
57514	55	Connecting to PB	CSF-Naive_112_IGM	IGHV4-34	CARGYTNSWYDYW	IGHJ4	CSF	1017
57514	55	Connecting to PB	USM_84463_IGM	IGHV4-34	CARGYTNSWYDYW	IGHJ4	PB	1
57514	55	Connecting to PB	PC_1055_IGM	IGHV4-34	CARGYTNSWYDYW	IGHJ4	PB	1
57514	56	CSF exclusive	CSF-Naive_112_IGM	IGHV1-2	CARGYYSQNWFDPW	IGHJ5	CSF	880
57514	57	CSF exclusive	CSF-Naive_112_IGM	IGHV4-39	CARLVGITAALDYW	IGHJ4	CSF	490
57514	58	CSF exclusive	CSF-Naive_112_IGM	IGHV4-4	CARMVATLYSGPFDYW	IGHJ4	CSF	307
57514	59	CSF exclusive	CSF-Naive_112_IGM	IGHV2-26	CARMVVYDFWGLNYCDYW	IGHJ4	CSF	140
57514	60	CSF exclusive	CSF-Naive_112_IGM	IGHV4-39	CARRESTVIDYW	IGHJ4	CSF	1472
57514	61	CSF exclusive	CSF-Naive_112_IGM	IGHV2-5	CARRGIFYSGSNNWFDPW	IGHJ5	CSF	12
57514	62	CSF exclusive	CSF-Naive_112_IGM	IGHV4-4	CARRGYSYFYGMVDVW	IGHJ6	CSF	177
57514	63	CSF exclusive	CSF-Naive_112_IGM	IGHV2-5	CARRHRMAVAGDYGMVDVW	IGHJ6	CSF	345
57514	64	CSF exclusive	CSF-Naive_112_IGM	IGHV4-28	CARSYVWFGEFHGMVDVW	IGHJ6	CSF	208
57514	65	CSF exclusive	CSF-Naive_112_IGM	IGHV1-46	CARSPYDILLTGYWYDYYGMDVW	IGHJ6	CSF	103
57514	66	CSF exclusive	CSF-Naive_112_IGM	IGHV3-48	CARSYSSGWVFDYW	IGHJ4	CSF	245
57514	67	Connecting to PB	CSF-Naive_112_IGM	IGHV7-81	CARTPSRDAFDIW	IGHJ3	CSF	5049
57514	67	Connecting to PB	Naive_175179_IGM	IGHV7-81	CARTPSRDAFDIW	IGHJ3	PB	1
57514	68	CSF exclusive	CSF-Naive_112_IGM	IGHV1-46	CARTRGYSYRDAFDIW	IGHJ3	CSF	17
57514	69	CSF exclusive	CSF-Naive_112_IGM	IGHV1-8	CARTRWLRFWYSGMVDVW	IGHJ6	CSF	47
57514	70	CSF exclusive	CSF-Naive_112_IGM	IGHV3-66	CARVEEDYYESGNWFDPW	IGHJ5	CSF	122
57514	71	CSF exclusive	CSF-Naive_112_IGM	IGHV1-46	CARVPPVTVEYYPDYW	IGHJ4	CSF	44
57514	72	Connecting to PB	CSF-Naive_112_IGM	IGHV1-2	CASGRSYGDYLDADFIDW	IGHJ3	CSF	1765
57514	72	Connecting to PB	PC_1055_IGG	IGHV1-2	CASGRSYGDYLDADFIDW	IGHJ3	PB	1
57514	72	Connecting to PB	USM_84463_IGM	IGHV1-2	CASGRSYGDYLDADFIDW	IGHJ3	PB	9
57514	73	CSF exclusive	CSF-Naive_112_IGM	IGHV5-51	CASPHYDILTGYYSFDYW	IGHJ4	CSF	175
57514	74	CSF exclusive	CSF-Naive_112_IGM	IGHV3-53	CASQGYSGYFGMDVW	IGHJ6	CSF	1

57514	75	CSF exclusive	CSF-Naive_112_IGM	IGHV3-53	CASQGYSYGLKGDYW	IGHJ4	CSF	309
57514	76	CSF exclusive	CSF-Naive_112_IGM	IGHV3-48	CASSDIVVAEYYPDYW	IGHJ4	CSF	172
57514	77	CSF exclusive	CSF-Naive_112_IGM	IGHV3-48	CASTSGISSRYYYGMDVW	IGHJ6	CSF	29
57514	78	CSF exclusive	CSF-Naive_112_IGM	IGHV3-23	CATPAKSSGGSGW	IGHJ5	CSF	111
57514	79	Connecting to PB	CSF-Naive_112_IGM	IGHV5-51	CATQLDWWAYW	IGHJ4	CSF	1466
57514	79	Connecting to PB	PC_1055_IGM	IGHV5-51	CATQLDWWAYW	IGHJ4	PB	1
57514	80	Connecting to PB	CSF-Naive_112_IGM	IGHV3-74	CVRDENNSVDFDCW	IGHJ4	CSF	1
57514	80	Connecting to PB	CSF-Naive_112_IGM	IGHV3-74	CVRDENNSVDFDYW	IGHJ4	CSF	18
57514	80	Connecting to PB	USM_84463_IGM	IGHV3-74	CVRDENNSVDFDYW	IGHJ4	PB	1
57514	81	CSF exclusive	CSF-Naive_112_IGM	IGHV3-7	CVRESIKGEDHW	IGHJ5	CSF	13
57514	82	Connecting to PB	CSF-PC_120_IGG	IGHV2-26	CAGIRTATTHLVHW	IGHJ4	CSF	1
57514	82	Connecting to PB	DN_18972_IGG	IGHV2-26	CAGIRTATTHLVHW	IGHJ4	PB	127
57514	83	Connecting to PB	CSF-PC_120_IGG	IGHV2-5	CAHLSTMVREFDYW	IGHJ4	CSF	5
57514	83	Connecting to PB	USM_84463_IGM	IGHV2-5	CAHLSTMVREFDYW	IGHJ4	PB	12
57514	84	Connecting to PB	CSF-PC_120_IGG	IGHV2-5	CAHRPKILWVGVRDCFYW	IGHJ4	CSF	1
57514	84	Connecting to PB	DN_18972_IGG	IGHV2-5	CAHRPKILWVGVRDCFYW	IGHJ4	PB	746
57514	85	Connecting to PB	CSF-PC_120_IGG	IGHV1-3	CAIHMTYDTFDVW	IGHJ3	CSF	1
57514	85	Connecting to PB	PC_1055_IGG	IGHV1-3	CAIHMTYDAFDIW	IGHJ3	PB	1
57514	85	Connecting to PB	SM_95720_IGG	IGHV1-3	CAIHMTYDAFDTW	IGHJ3	PB	1
57514	85	Connecting to PB	Naive_175179_IGM	IGHV1-3	CAIHMTYDAFDIW	IGHJ3	PB	7
57514	85	Connecting to PB	PC_1055_IGM	IGHV1-3	CAIHMTYDAFDIW	IGHJ3	PB	7
57514	85	Connecting to PB	SM_95720_IGG	IGHV1-3	CAIHMTYDAFDIW	IGHJ3	PB	33
57514	85	Connecting to PB	USM_84463_IGM	IGHV1-3	CAIHMTYDAFDIW	IGHJ3	PB	39
57514	85	Connecting to PB	SM_95720_IGM	IGHV1-3	CAIHMTYDAFDIW	IGHJ3	PB	29555
57514	86	CSF exclusive	CSF-PC_120_IGG	IGHV1-2	CAKEQATVTARPTTG	IGHJ4	CSF	1
57514	87	CSF exclusive	CSF-PC_120_IGG	IGHV1-2	CAKEQDYGYRTPDPW	IGHJ5	CSF	2
57514	88	Connecting to PB	CSF-SM_460_IGG	IGHV1-2	CAKEQDCGYRTPDYW	IGHJ4	CSF	1
57514	88	Connecting to PB	CSF-PC_120_IGG	IGHV1-2	CAREQDYGYRTPDYW	IGHJ4	CSF	5495
57514	88	Connecting to PB	CSF-PC_120_IGG	IGHV1-2	CAKEQDYGYRTPDYW	IGHJ4	CSF	14000
57514	88	Connecting to PB	PC_1055_IGG	IGHV1-2	CAKEQDYGYRTPDYW	IGHJ4	PB	1
57514	88	Connecting to PB	PC_1055_IGG	IGHV1-2	CAREQDYGYRTPDYW	IGHJ4	PB	1
57514	88	Connecting to PB	SM_95720_IGG	IGHV1-2	CAREQDYGYRTPDYW	IGHJ4	PB	3
57514	88	Connecting to PB	SM_95720_IGG	IGHV1-2	CAREQDYGYRTPDYW	IGHJ4	PB	16
57514	88	Connecting to PB	SM_95720_IGG	IGHV1-2	CAKEQDHNYYRTPDYW	IGHJ4	PB	17
57514	89	Connecting to PB	CSF-PC_120_IGG	IGHV3-74	CAKEVHVGGSTDYW	IGHJ4	CSF	1
57514	89	Connecting to PB	PC_1055_IGG	IGHV3-74	CAKEVHVGGSTDYW	IGHJ4	PB	1
57514	89	Connecting to PB	SM_95720_IGG	IGHV3-74	CAKEVHVGGSTDYW	IGHJ4	PB	142
57514	89	Connecting to PB	PC_1055_IGG	IGHV3-74	CAKEVHVGGSTDYW	IGHJ4	PB	931
57514	90	Connecting to PB	CSF-PC_120_IGG	IGHV3-23	CAKGSVAGSYW	IGHJ4	CSF	4871
57514	90	Connecting to PB	PC_1055_IGG	IGHV3-23	CAKGSVAGSYW	IGHJ4	PB	1
57514	90	Connecting to PB	SM_95720_IGG	IGHV3-23	CAKGSVAGSYW	IGHJ4	PB	3
57514	91	Connecting to PB	CSF-PC_120_IGG	IGHV2-5	CALLHSDVEDAFDVW	IGHJ3	CSF	180
57514	91	Connecting to PB	SM_95720_IGG	IGHV2-5	CALLHSDVEDAFDVW	IGHJ3	PB	9
57514	92	CSF exclusive	CSF-PC_120_IGG	IGHV2-5	CARAARFFDHNSFGDYSYSMDIW	IGHJ6	CSF	357
57514	93	Connecting to PB	CSF-PC_120_IGG	IGHV3-7	CARDCSGGTCYPYYGMDVW	IGHJ6	CSF	575
57514	93	Connecting to PB	SM_95720_IGG	IGHV3-7	CARDCSGGTCYPYYGMDVW	IGHJ6	PB	7
57514	94	CSF exclusive	CSF-PC_120_IGG	IGHV3-7	CARDHVPVPGTPLYW	IGHJ4	CSF	89
57514	95	CSF exclusive	CSF-PC_120_IGG	IGHV3-33	CARDHVSVPGTPLYW	IGHJ4	CSF	1
57514	96	Connecting to PB	CSF-PC_120_IGG	IGHV1-18	CARDMARLYKGAQQGLGFDPW	IGHJ5	CSF	1
57514	96	Connecting to PB	SM_95720_IGG	IGHV1-18	CARDMARLYKGAQQGLGFDPW	IGHJ5	PB	944
57514	97	CSF exclusive	CSF-PC_120_IGG	IGHV3-30	CARDPNPIEVILTVDVDFW	IGHJ4	CSF	1337
57514	98	Connecting to PB	CSF-PC_120_IGG	IGHV7-81	CARDSRGWHNWFDPW	IGHJ5	CSF	1
57514	98	Connecting to PB	SM_95720_IGG	IGHV7-81	CARDSRGWHNWFDPW	IGHJ5	PB	70
57514	99	Connecting to PB	CSF-PC_120_IGG	IGHV1-69	CARDYFGSGSFYTVYDTFDTW	IGHJ3	CSF	1
57514	99	Connecting to PB	CSF-PC_120_IGG	IGHV1-69	CARDYFGSGSFYTVYDTFDVW	IGHJ3	CSF	19927
57514	99	Connecting to PB	DN_18972_IGG	IGHV1-69	CARDYFGSGSFYTVYDTFDVW	IGHJ3	PB	2
57514	99	Connecting to PB	SM_95720_IGG	IGHV1-69	CARDYFGSGSFYTVYDTFDVW	IGHJ3	PB	14
57514	100	Connecting to PB	CSF-PC_120_IGG	IGHV7-81	CAREGATVTNDYW	IGHJ4	CSF	1
57514	100	Connecting to PB	DN_18972_IGG	IGHV7-81	CAREGATVTNDYW	IGHJ4	PB	57
57514	101	Connecting to PB	CSF-PC_120_IGG	IGHV1-69	CAREGSSVIVPPTVDYGGMDVW	IGHJ6	CSF	1
57514	101	Connecting to PB	DN_18972_IGG	IGHV1-69	CAREGSSVIVPPTVDYGGMDVW	IGHJ6	PB	137
57514	102	Connecting to PB	CSF-PC_120_IGG	IGHV4-4	CARENNGDDVGFYW	IGHJ4	CSF	1
57514	102	Connecting to PB	CSF-PC_120_IGG	IGHV4-4	CARENNDVGFYW	IGHJ4	CSF	1380
57514	102	Connecting to PB	SM_95720_IGG	IGHV4-4	CARENNDVGFYW	IGHJ4	PB	16
57514	103	Connecting to PB	CSF-PC_120_IGG	IGHV6-1	CAREVDPMPVHTATFDHW	IGHJ4	CSF	1
57514	103	Connecting to PB	CSF-SM_460_IGG	IGHV6-1	CAREVDPMPVHTATFDHW	IGHJ4	CSF	1238
57514	103	Connecting to PB	SM_95720_IGG	IGHV6-1	CAREADPPMVHTATFDHW	IGHJ4	PB	1
57514	103	Connecting to PB	DN_18972_IGG	IGHV6-1	CAREVDPMPVHTATFDHW	IGHJ4	PB	1
57514	104	Connecting to PB	CSF-PC_120_IGG	IGHV4-59	CARFEWERIADYW	IGHJ4	CSF	1
57514	104	Connecting to PB	DN_18972_IGG	IGHV4-59	CARFEWERIADYW	IGHJ4	PB	83
57514	105	Connecting to PB	CSF-PC_120_IGG	IGHV1-24	CARGDSSGFLLDYW	IGHJ4	CSF	1
57514	105	Connecting to PB	DN_18972_IGG	IGHV1-24	CARGDSSGFLLDYW	IGHJ4	PB	23
57514	106	Connecting to PB	CSF-PC_120_IGG	IGHV1-69	CARGGRGGVDYDGMVW	IGHJ6	CSF	1
57514	106	Connecting to PB	SM_95720_IGG	IGHV1-69	CARGGRGGVDYDGMVW	IGHJ6	PB	48
57514	107	CSF exclusive	CSF-PC_120_IGG	IGHV4-34	CARGGSAGGWFSTRKGYFDFW	IGHJ4	CSF	1307
57514	108	CSF exclusive	CSF-PC_120_IGG	IGHV4-34	CARGGYPGGAYFSTPGPEKGGFDIW	IGHJ3	CSF	204
57514	109	Connecting to PB	CSF-PC_120_IGG	IGHV4-39	CARGTPWVRGLMPTRGYYYGMDVW	IGHJ6	CSF	2
57514	109	Connecting to PB	DN_18972_IGG	IGHV4-39	CARGTPWVRGLMPTRGYYYGMDVW	IGHJ6	PB	1
57514	109	Connecting to PB	PC_1055_IGG	IGHV4-39	CARGTPWVRGLMPTRGYYYGMDVW	IGHJ6	PB	3
57514	109	Connecting to PB	DN_18972_IGM	IGHV4-39	CARGTPWVRGLMPTRGYYYGMDVW	IGHJ6	PB	7
57514	109	Connecting to PB	DN_18972_IGG	IGHV4-39	CARGTPWVRGLMPTRGYYYGMDVW	IGHJ6	PB	10981
57514	110	Connecting to PB	CSF-PC_120_IGG	IGHV4-39	CARHIGSDPRHDYDTGGYYLWVDFPW	IGHJ5	CSF	312
57514	110	Connecting to PB	DN_18972_IGG	IGHV4-39	CARHIGSDPRHDYDTGGYYLWVDFPW	IGHJ5	PB	1
57514	111	CSF exclusive	CSF-PC_120_IGG	IGHV1-18	CARHSAPVLLRGLSTPWFDPW	IGHJ5	CSF	138

57514	112	Connecting to PB	CSF-PC_120_IGG	IGHV2-26	CARIRRRGTFHPLSYGMDVW	IGHJ6	CSF	1
57514	112	Connecting to PB	DN_18972_IGG	IGHV2-26	CARIRRRGTFHPLSYGMDVW	IGHJ6	PB	383
57514	113	Connecting to PB	CSF-SM_460_IGG	IGHV4-59	CARLPSYTSENWGMGMDVW	IGHJ6	CSF	370
57514	113	Connecting to PB	CSF-PC_120_IGG	IGHV4-59	CARLPSYTSENWGMGMDVW	IGHJ6	CSF	1961
57514	113	Connecting to PB	SM_95720_IGG	IGHV4-59	CARLPSYTSENWGMGMDVW	IGHJ6	PB	32
57514	114	CSF exclusive	CSF-PC_120_IGG	IGHV4-39	CARLYSHSVSCVSLDAFDIW	IGHJ3	CSF	1
57514	114	CSF exclusive	CSF-PC_120_IGG	IGHV4-39	RARLYCHSVSCVSLDAFDIW	IGHJ3	CSF	1
57514	114	CSF exclusive	CSF-PC_120_IGG	IGHV4-39	CARLYCYSVSCVSLDAFDIW	IGHJ3	CSF	185
57514	115	CSF exclusive	CSF-PC_120_IGG	IGHV4-4	CARPSFYDGRDYHDGDAFDIW	IGHJ3	CSF	4054
57514	116	CSF exclusive	CSF-PC_120_IGG	IGHV4-39	CARQLERVWGSYRLFMDVW	IGHJ6	CSF	33
57514	117	Connecting to PB	CSF-PC_120_IGG	IGHV4-39	CARRSVGYCSDTSCYDYYYYYGMVDVW	IGHJ6	CSF	4229
57514	117	Connecting to PB	PC_1055_IGG	IGHV4-39	CARRSVGYCSDTSCYDYYYYYGMVDVW	IGHJ6	PB	4
57514	117	Connecting to PB	SM_95720_IGG	IGHV4-39	CARRSVGYCSDTSCYDYYYYYGMVDVW	IGHJ6	PB	27
57514	118	Connecting to PB	CSF-PC_120_IGG	IGHV4-4	CARSTSWYSGAFSDYWPWI	IGHJ3	CSF	1
57514	118	Connecting to PB	SM_95720_IGG	IGHV4-4	CARSTSWYSGAFSDYWPWI	IGHJ3	PB	4
57514	118	Connecting to PB	PC_1055_IGG	IGHV4-4	CARSTSWYSGAFSDYWPWI	IGHJ3	PB	10787
57514	119	Connecting to PB	CSF-PC_120_IGG	IGHV2-70	CARTITAGGTDDAFDDW	IGHJ3	CSF	1
57514	119	Connecting to PB	DN_18972_IGG	IGHV2-70	CARTITAGGTDDAFDDW	IGHJ3	PB	80
57514	120	CSF exclusive	CSF-PC_120_IGG	IGHV4-34	CARVNPEWRQLGQPTGVRWFYFDLW	IGHJ2	CSF	1
57514	121	Connecting to PB	CSF-PC_120_IGG	IGHV1-18	CARVPDYWGSESRQRTDYW	IGHJ4	CSF	73
57514	121	Connecting to PB	USM_84463_IGM	IGHV1-18	CARVPDYYGSESRRTDYW	IGHJ4	PB	9
57514	121	Connecting to PB	USM_84463_IGM	IGHV1-18	CARVPDYYGSESRITDYW	IGHJ4	PB	11
57514	121	Connecting to PB	SM_95720_IGG	IGHV1-18	CARVPDYWGSESRITDYW	IGHJ4	PB	15
57514	121	Connecting to PB	USM_84463_IGM	IGHV1-18	CARVPDYYGSESRITDYW	IGHJ4	PB	21
57514	122	CSF exclusive	CSF-PC_120_IGG	IGHV1-69	CARVPKKQLVERYYYGMVDVW	IGHJ6	CSF	1
57514	123	CSF exclusive	CSF-PC_120_IGG	IGHV1-18	CARVRAARPDWLYGMDVW	IGHJ6	CSF	173
57514	124	Connecting to PB	CSF-PC_120_IGG	IGHV4-59	CARVRESGYDEFDYM	IGHJ4	CSF	1715
57514	124	Connecting to PB	SM_95720_IGG	IGHV4-59	CARVRESGYDEFDYM	IGHJ4	PB	37
57514	125	Connecting to PB	CSF-PC_120_IGG	IGHV4-34	CARVRGVYAPYCFDYW	IGHJ4	CSF	1
57514	125	Connecting to PB	PC_1055_IGG	IGHV4-34	CARVRGVYAPYCFDYW	IGHJ4	PB	662
57514	126	Connecting to PB	CSF-PC_120_IGG	IGHV4-34	CARVRNNCVGGRCYDRFDYW	IGHJ4	CSF	1
57514	126	Connecting to PB	SM_95720_IGG	IGHV4-34	CARVRNNCVGGRCYDRFDYW	IGHJ4	PB	4
57514	126	Connecting to PB	PC_1055_IGG	IGHV4-34	CARVRNNCVGGRCYDRFDYW	IGHJ4	PB	952
57514	127	Connecting to PB	CSF-PC_120_IGG	IGHV4-34	CARVSGRWIDVLYYHNAMDVW	IGHJ6	CSF	572
57514	127	Connecting to PB	SM_95720_IGG	IGHV4-34	CARVSGRWIDVLYYHNAMDVW	IGHJ6	PB	3
57514	127	Connecting to PB	DN_18972_IGG	IGHV4-34	CARVSGRWIDVLYYHNAMDVW	IGHJ6	PB	18
57514	128	Connecting to PB	CSF-PC_120_IGG	IGHV4-59	CARVVGADDAFDIW	IGHJ3	CSF	1
57514	128	Connecting to PB	DN_18972_IGM	IGHV4-59	CARVVGADDAFDIW	IGHJ3	PB	1
57514	128	Connecting to PB	DN_18972_IGG	IGHV4-59	CARVVGADDAFDIW	IGHJ3	PB	400
57514	129	Connecting to PB	CSF-SM_460_IGG	IGHV4-59	CARVYGGSLIFDYW	IGHJ4	CSF	2
57514	129	Connecting to PB	CSF-PC_120_IGG	IGHV4-59	CARVYGGSLIFDYW	IGHJ4	CSF	9191
57514	129	Connecting to PB	SM_95720_IGG	IGHV4-59	CARIYYDGNLIFDYW	IGHJ4	PB	1
57514	129	Connecting to PB	SM_95720_IGG	IGHV4-59	CARIYYGGDLIFDYW	IGHJ4	PB	1
57514	129	Connecting to PB	PC_1055_IGG	IGHV4-59	CARVYGGSLIFDYW	IGHJ4	PB	3
57514	129	Connecting to PB	SM_95720_IGG	IGHV4-59	CARVYGGSLIFDYW	IGHJ4	PB	4
57514	129	Connecting to PB	SM_95720_IGG	IGHV4-59	CARIYYGGNLIFDYW	IGHJ4	PB	10
57514	129	Connecting to PB	SM_95720_IGG	IGHV4-59	CARVYGGNLIFDYW	IGHJ4	PB	10
57514	129	Connecting to PB	SM_95720_IGG	IGHV4-59	CARVYGGSLIFDYW	IGHJ4	PB	46
57514	130	Connecting to PB	CSF-PC_120_IGG	IGHV4-55	CASKQIFAPAAYW	IGHJ4	CSF	4
57514	130	Connecting to PB	SM_95720_IGG	IGHV4-55	CASKQIFAPAAYW	IGHJ4	PB	33
57514	130	Connecting to PB	SM_95720_IGG	IGHV4-55	CASKQIFAPAAYW	IGHJ4	PB	2864
57514	130	Connecting to PB	PC_1055_IGG	IGHV4-55	CASKQIFAPAAYW	IGHJ4	PB	7877
57514	131	Connecting to PB	CSF-PC_120_IGG	IGHV1-3	CASSPYGDYVGLYGMVDVW	IGHJ6	CSF	1
57514	131	Connecting to PB	Naive_175179_IGM	IGHV1-3	CASSPYGDYVGLYGMVDVW	IGHJ6	PB	3
57514	132	Connecting to PB	CSF-PC_120_IGG	IGHV1-3	CATDPYGYKYFDYW	IGHJ4	CSF	2
57514	132	Connecting to PB	PC_1055_IGM	IGHV1-3	CATDPYGYKYFDYW	IGHJ4	PB	1
57514	132	Connecting to PB	SM_95720_IGG	IGHV1-3	CAGDPYGYKGFDDYW	IGHJ4	PB	2
57514	132	Connecting to PB	DN_18972_IGG	IGHV1-3	CATDPYGYKYFDYW	IGHJ4	PB	2
57514	132	Connecting to PB	SM_95720_IGG	IGHV1-3	CARDPYGYKGFDDYW	IGHJ4	PB	6
57514	132	Connecting to PB	SM_95720_IGG	IGHV1-3	CARDPYGYKGFDDYW	IGHJ4	PB	34
57514	132	Connecting to PB	PC_1055_IGM	IGHV1-3	CATDPYGYKYFDYW	IGHJ4	PB	44
57514	132	Connecting to PB	SM_95720_IGG	IGHV1-3	CATDPYGYKYFDYW	IGHJ4	PB	90
57514	132	Connecting to PB	PC_1055_IGG	IGHV1-3	CATDPYGYKYFDYW	IGHJ4	PB	17572
57514	133	CSF exclusive	CSF-SM_460_IGG	IGHV3-9	CATGDFYD'TDYYPFDYW	IGHJ4	CSF	15
57514	133	CSF exclusive	CSF-PC_120_IGG	IGHV3-9	CATGDFYD'TDYYPFDYW	IGHJ4	CSF	55
57514	134	Connecting to PB	CSF-PC_120_IGG	IGHV2-5	CGHSSGYRLLDYW	IGHJ4	CSF	1
57514	134	Connecting to PB	SM_95720_IGM	IGHV2-5	CGRSSGYRLLDYW	IGHJ4	PB	1
57514	134	Connecting to PB	SM_95720_IGM	IGHV2-5	CGHSSGYRLLDYW	IGHJ4	PB	6
57514	134	Connecting to PB	SM_95720_IGG	IGHV2-5	CGHSSGYRLLDYW	IGHJ4	PB	2173
57514	135	Connecting to PB	CSF-PC_120_IGG	IGHV3-15	CHTPYCNNGRCYGYW	IGHJ4	CSF	1
57514	135	Connecting to PB	PC_1055_IGM	IGHV3-15	CHTPYCNNGRCYGYW	IGHJ4	PB	1
57514	135	Connecting to PB	PC_1055_IGG	IGHV3-15	CHTPYCNNGRCYGYW	IGHJ4	PB	602
57514	136	CSF exclusive	CSF-PC_120_IGG	IGHV3-9	CRSGDYFD'TSDPYYPFDYW	IGHJ4	CSF	970
57514	137	CSF exclusive	CSF-PC_120_IGG	IGHV1-69	CSRVTWDYAYGMDVW	IGHJ6	CSF	25
57514	138	Connecting to PB	CSF-PC_120_IGG	IGHV2-5	CVHRVPGAATSGWPLDFW	IGHJ4	CSF	4
57514	138	Connecting to PB	CSF-PC_120_IGG	IGHV2-5	CVHRVPGAATSGWPLDFW	IGHJ4	CSF	4453
57514	138	Connecting to PB	SM_95720_IGG	IGHV2-5	CVHRVPGAATSGWPLDFW	IGHJ4	PB	16
57514	138	Connecting to PB	DN_18972_IGG	IGHV2-5	CVHRVPGAATSGWPLDFW	IGHJ4	PB	69
57514	139	CSF exclusive	CSF-PC_120_IGG	IGHV2-5	RVHRVPGAATSGWPLDLW	IGHJ5	CSF	1
57514	140	CSF exclusive	CSF-SM_460_IGG	IGHV1-69	CAGHFPNSTAWY'TNTFDIW	IGHJ3	CSF	18
57514	141	Connecting to PB	CSF-SM_460_IGG	IGHV3-11	CAGIVGATRNYYYYGTDVW	IGHJ6	CSF	14
57514	141	Connecting to PB	USM_84463_IGM	IGHV3-11	CAGIVGASRNYYYYGMDVW	IGHJ6	PB	1
57514	142	Connecting to PB	CSF-SM_460_IGG	IGHV2-5	CAHRREAYCGDDCYSSFFDNW	IGHJ4	CSF	25
57514	142	Connecting to PB	SM_95720_IGG	IGHV2-5	CAHRREAYCGDDCYSSFFDNW	IGHJ4	PB	1

57514	143	CSF exclusive	CSF-SM_460_IGG	IGHV1-2	CAIMDYGGNSSW	IGHJ5	CSF	1
57514	144	CSF exclusive	CSF-SM_460_IGG	IGHV1-2	CAIVDYGGNSFW	IGHJ4	CSF	699
57514	145	Connecting to PB	CSF-SM_460_IGG	IGHV3-9	CAKDESLGAYGYFDSW	IGHJ4	CSF	7
57514	145	Connecting to PB	SM_95720_IGG	IGHV3-9	CAKDESLGAYGYFDSW	IGHJ4	PB	4
57514	146	CSF exclusive	CSF-SM_460_IGG	IGHV3-30	CAKDFRSRIEFWLVDYW	IGHJ4	CSF	11
57514	147	CSF exclusive	CSF-SM_460_IGG	IGHV3-23	CAKDMSSVVTLLIDQGMVDW	IGHJ6	CSF	7
57514	148	Connecting to PB	CSF-SM_460_IGG	IGHV3-9	CAKDMYYSGRNHYGMDVW	IGHJ6	CSF	1
57514	148	Connecting to PB	DN_18972_IGG	IGHV3-9	CAKDMYYSGRNHYGMDVW	IGHJ6	PB	21
57514	149	Connecting to PB	CSF-SM_460_IGG	IGHV3-30	CAKDRSRIEFWLVDYW	IGHJ4	CSF	25
57514	149	Connecting to PB	CSF-SM_460_IGG	IGHV3-30	CAKDRSRIEFWLVDYW	IGHJ4	CSF	7356
57514	149	Connecting to PB	PC_1055_IGG	IGHV3-30	CAKDRSRIEFWLVDYW	IGHJ4	PB	2
57514	149	Connecting to PB	SM_95720_IGG	IGHV3-30	CAKDRSRIEFWLVDYW	IGHJ4	PB	19
57514	149	Connecting to PB	DN_18972_IGG	IGHV3-30	CAKDRSRIEFWLVDYW	IGHJ4	PB	25
57514	150	Connecting to PB	CSF-SM_460_IGG	IGHV3-23	CAKDRYSYINAEIGGYFDCW	IGHJ4	CSF	3
57514	150	Connecting to PB	SM_95720_IGG	IGHV3-23	CAKDRYSYINAEIGGYFDCW	IGHJ4	PB	2
57514	151	CSF exclusive	CSF-SM_460_IGG	IGHV3-9	CAKDTTRSVCYSGGSCYSHYYGMDVW	IGHJ6	CSF	20
57514	152	CSF exclusive	CSF-SM_460_IGG	IGHV3-30	CAKDWRSRIEFLVDCW	IGHJ4	CSF	1
57514	153	CSF exclusive	CSF-SM_460_IGG	IGHV3-9	CAKEYSRQLVLGDAFDIW	IGHJ3	CSF	9
57514	154	CSF exclusive	CSF-SM_460_IGG	IGHV3-30	CAKESLRYFDYW	IGHJ4	CSF	17
57514	155	CSF exclusive	CSF-SM_460_IGG	IGHV3-43	CAKGLPYDTSGYYPDLHW	IGHJ4	CSF	7
57514	156	Connecting to PB	CSF-SM_460_IGG	IGHV3-9	CAKGGSGAFDYW	IGHJ4	CSF	1884
57514	156	Connecting to PB	SM_95720_IGG	IGHV3-9	CAKGGSGAFDYW	IGHJ4	PB	3
57514	157	CSF exclusive	CSF-SM_460_IGG	IGHV3-23	CAKLPASWYDYVDIWI	IGHJ3	CSF	2
57514	157	CSF exclusive	CSF-SM_460_IGG	IGHV3-23	CAKLPASWYDAYDIWI	IGHJ3	CSF	31
57514	158	CSF exclusive	CSF-SM_460_IGG	IGHV3-48	CAKMFSLRSLEWHTNWFDPW	IGHJ5	CSF	8
57514	159	Connecting to PB	CSF-SM_460_IGG	IGHV4-34	CAMKRGNYGSGNELW	IGHJ1	CSF	1
57514	159	Connecting to PB	SM_95720_IGG	IGHV4-34	CAMKRGNYGSGNEHW	IGHJ1	PB	4
57514	159	Connecting to PB	PC_1055_IGM	IGHV4-34	CAMKRGNYGSGNEHW	IGHJ1	PB	6
57514	159	Connecting to PB	PC_1055_IGG	IGHV4-34	CAMKRGNYGSGNEHW	IGHJ1	PB	4560
57514	160	Connecting to PB	CSF-SM_460_IGG	IGHV1-69	CANQAATRDFDLW	IGHJ4	CSF	95
57514	160	Connecting to PB	SM_95720_IGG	IGHV1-69	CANQAATRDFDNW	IGHJ4	PB	6
57514	161	Connecting to PB	CSF-SM_460_IGG	IGHV4-59	CARAPSTDIAIADVGFDIW	IGHJ3	CSF	211
57514	161	Connecting to PB	SM_95720_IGG	IGHV4-59	CARAPSTDIAIADVGFDIW	IGHJ3	PB	51
57514	162	CSF exclusive	CSF-SM_460_IGG	IGHV3-73	CARAVAVAGTLLDYYQMDVW	IGHJ6	CSF	4
57514	163	CSF exclusive	CSF-SM_460_IGG	IGHV4-4	CARDAYDYSADWYFDYW	IGHJ4	CSF	20
57514	164	CSF exclusive	CSF-SM_460_IGG	IGHV3-7	CARDFNIDYVSNMGMDVW	IGHJ6	CSF	17
57514	165	CSF exclusive	CSF-SM_460_IGG	IGHV4-4	CARDLEPPSLHSYGLDVGW	IGHJ6	CSF	1
57514	165	CSF exclusive	CSF-SM_460_IGG	IGHV4-4	CARDLGPPLHSYGLDVGW	IGHJ6	CSF	123
57514	166	CSF exclusive	CSF-SM_460_IGG	IGHV1-46	CARDLNDISRPLQWAFDDW	IGHJ4	CSF	136
57514	167	CSF exclusive	CSF-SM_460_IGG	IGHV4-34	CARDWAGAHGGNYGTDVW	IGHJ6	CSF	1
57514	167	CSF exclusive	CSF-SM_460_IGG	IGHV4-34	CARDRAGAHGGNYGMDVW	IGHJ6	CSF	63
57514	168	CSF exclusive	CSF-SM_460_IGG	IGHV3-48	CARDRRGTIFGEVILYGLDVGW	IGHJ6	CSF	4
57514	169	Connecting to PB	CSF-SM_460_IGG	IGHV4-59	CARDVGPQSHHAFDIW	IGHJ3	CSF	1
57514	169	Connecting to PB	SM_95720_IGG	IGHV4-59	CARDVGPQSHHAFDIW	IGHJ3	PB	2300
57514	170	Connecting to PB	CSF-SM_460_IGG	IGHV1-2	CARDWDVLLVPPSKGRFW	IGHJ4	CSF	25
57514	170	Connecting to PB	SM_95720_IGG	IGHV1-2	CARDWDVLLVPPSKGRFW	IGHJ4	PB	9
57514	170	Connecting to PB	SM_95720_IGG	IGHV1-2	CARDWDILVPPSKGRFW	IGHJ4	PB	10
57514	171	CSF exclusive	CSF-SM_460_IGG	IGHV3-7	CAREGGFYDNDYFYFDYW	IGHJ4	CSF	3
57514	172	CSF exclusive	CSF-SM_460_IGG	IGHV4-4	CAREVDHDTGGWFGAFDSW	IGHJ4	CSF	85
57514	173	Connecting to PB	CSF-SM_460_IGG	IGHV3-43	CAREVLGYTAYW	IGHJ4	CSF	10
57514	173	Connecting to PB	SM_95720_IGM	IGHV3-43	CAREVHGTYAYW	IGHJ4	PB	1
57514	173	Connecting to PB	SM_95720_IGG	IGHV3-43	CAREVLGYTAYW	IGHJ4	PB	2
57514	174	CSF exclusive	CSF-SM_460_IGG	IGHV3-7	CAREWHILVIPFDYW	IGHJ4	CSF	11
57514	175	CSF exclusive	CSF-SM_460_IGG	IGHV4-34	CARFGRGFYFAGW	IGHJ5	CSF	154
57514	176	CSF exclusive	CSF-SM_460_IGG	IGHV4-55	CARGEGRGLGELSYTGDFDW	IGHJ4	CSF	34
57514	177	CSF exclusive	CSF-SM_460_IGG	IGHV7-81	CARGVAATGTPDW	IGHJ5	CSF	3
57514	177	CSF exclusive	CSF-SM_460_IGM	IGHV7-81	CARGVAATGTPDW	IGHJ5	CSF	1323
57514	178	Connecting to PB	CSF-SM_460_IGG	IGHV2-26	CARIEGWGTEFDYW	IGHJ4	CSF	192
57514	178	Connecting to PB	USM_84463_IGM	IGHV2-26	CARIEGWGTEFDHW	IGHJ4	PB	5
57514	178	Connecting to PB	SM_95720_IGG	IGHV2-26	CAGIEGWGTEFAYW	IGHJ4	PB	18
57514	178	Connecting to PB	SM_95720_IGG	IGHV2-26	CARIEGWGTEFDYW	IGHJ4	PB	64
57514	179	CSF exclusive	CSF-SM_460_IGG	IGHV2-70	CARIMYSSGWPEYWFDPW	IGHJ5	CSF	166
57514	180	CSF exclusive	CSF-SM_460_IGG	IGHV4-34	CARIYDYVWGSYRTDAFDIW	IGHJ3	CSF	225
57514	181	CSF exclusive	CSF-SM_460_IGG	IGHV3-48	CARLEDWNDPDPHYYYGMDVW	IGHJ6	CSF	1
57514	182	CSF exclusive	CSF-SM_460_IGG	IGHV2-26	CARLETADPNWHFDLW	IGHJ2	CSF	56
57514	183	CSF exclusive	CSF-SM_460_IGG	IGHV3-7	CARLGYSDNGTYYPDLDSW	IGHJ4	CSF	3
57514	183	CSF exclusive	CSF-SM_460_IGG	IGHV3-7	CARLGYSDNGTYYPSPDFSW	IGHJ4	CSF	23
57514	184	CSF exclusive	CSF-SM_460_IGG	IGHV1-18	CARLTRHSTGWSYYYYSMDVW	IGHJ6	CSF	255
57514	185	CSF exclusive	CSF-SM_460_IGG	IGHV4-39	RARPAYGASSYLDYW	IGHJ4	CSF	1
57514	185	CSF exclusive	CSF-SM_460_IGG	IGHV4-39	CARPAYGASSYFDYW	IGHJ4	CSF	65
57514	186	CSF exclusive	CSF-SM_460_IGG	IGHV7-81	CARPSLHGWFYFFQYW	IGHJ4	CSF	20
57514	187	CSF exclusive	CSF-SM_460_IGG	IGHV4-4	CARQRVVFTIPNGMDVW	IGHJ6	CSF	426
57514	188	Connecting to PB	CSF-SM_460_IGG	IGHV4-39	CARRLSGYSYGAFDIW	IGHJ3	CSF	111
57514	188	Connecting to PB	SM_95720_IGG	IGHV4-39	CARRHSGYSYGAFDIW	IGHJ3	PB	7
57514	188	Connecting to PB	SM_95720_IGG	IGHV4-39	CARRNSGYSYGAFDIW	IGHJ3	PB	18
57514	188	Connecting to PB	SM_95720_IGG	IGHV4-39	CARRLSGYSYGAFDIW	IGHJ3	PB	23
57514	188	Connecting to PB	SM_95720_IGG	IGHV4-39	CARRLSGYSYGAFDIW	IGHJ3	PB	28
57514	189	CSF exclusive	CSF-SM_460_IGG	IGHV1-3	CARSFRYSSGWNIGYHYAMDVW	IGHJ6	CSF	283
57514	190	CSF exclusive	CSF-SM_460_IGG	IGHV5-51	CARSGLYYDSSPNWFAPW	IGHJ5	CSF	33
57514	191	CSF exclusive	CSF-SM_460_IGG	IGHV1-8	CARSKLGTGADFDYW	IGHJ4	CSF	39
57514	192	Connecting to PB	CSF-SM_460_IGG	IGHV1-2	CARSTEVSSTRRPYEYW	IGHJ4	CSF	1
57514	192	Connecting to PB	CSF-SM_460_IGM	IGHV1-2	CARSTEVSSTRRPYEYW	IGHJ4	CSF	788
57514	192	Connecting to PB	USM_84463_IGM	IGHV1-2	CARSTEISETTRRPYEYW	IGHJ4	PB	7
57514	193	CSF exclusive	CSF-SM_460_IGG	IGHV4-59	CARTAIGRIPMVRGAQGGGLDVW	IGHJ6	CSF	56
57514	194	Connecting to PB	CSF-SM_460_IGG	IGHV1-69	CARTLEMVHNWFDPW	IGHJ5	CSF	1



57514	194	Connecting to PB	PC_1055_IGG	IGHV1-69	CARTLEMVHNWFDPW	IGHJ5	PB	1
57514	194	Connecting to PB	DN_18972_IGG	IGHV1-69	CARTLEMVHNWFDPW	IGHJ5	PB	212
57514	195	CSF exclusive	CSF-SM_460_IGG	IGHV1-8	CARVLYSYASDNW	IGHJ4	CSF	19
57514	196	Connecting to PB	CSF-SM_460_IGG	IGHV3-21	CARVWVAASLVLDYHYYYAMDVW	IGHJ6	CSF	1
57514	196	Connecting to PB	SM_95720_IGG	IGHV3-21	CARVWVAASLVLDYHYYYAMDVW	IGHJ6	PB	1
57514	197	CSF exclusive	CSF-SM_460_IGG	IGHV3-30	CARYFYDNGASGADYW	IGHJ4	CSF	15
57514	198	Connecting to PB	CSF-SM_460_IGG	IGHV2-5	CARYMPAVTTYDYW	IGHJ4	CSF	764
57514	198	Connecting to PB	SM_95720_IGM	IGHV2-5	CARYMPTVTTYDYW	IGHJ4	PB	1
57514	198	Connecting to PB	SM_95720_IGG	IGHV2-5	CARYMSTVTSYGYW	IGHJ4	PB	1
57514	198	Connecting to PB	SM_95720_IGG	IGHV2-5	CARYMSTVTTYNYW	IGHJ4	PB	1
57514	198	Connecting to PB	SM_95720_IGG	IGHV2-5	CARYTSTVTSYDYW	IGHJ4	PB	1
57514	198	Connecting to PB	SM_95720_IGG	IGHV2-5	CARYMPAVTTYDYW	IGHJ4	PB	3
57514	198	Connecting to PB	SM_95720_IGG	IGHV2-5	CARYMSTVTSYDYW	IGHJ4	PB	23
57514	198	Connecting to PB	SM_95720_IGG	IGHV2-5	CARYMPTVTTYDYW	IGHJ4	PB	93
57514	198	Connecting to PB	SM_95720_IGG	IGHV2-5	CARYMSTVTTYDYW	IGHJ4	PB	137
57514	199	CSF exclusive	CSF-SM_460_IGG	IGHV4-39	CASEFSGSNYYW	IGHJ4	CSF	3
57514	200	CSF exclusive	CSF-SM_460_IGG	IGHV4-39	CASEFSGSNYYYW	IGHJ4	CSF	425
57514	201	CSF exclusive	CSF-SM_460_IGG	IGHV3-7	CASGSGWVSEHW	IGHJ1	CSF	8
57514	202	CSF exclusive	CSF-SM_460_IGG	IGHV4-4	CASLGYSSSADYW	IGHJ4	CSF	450
57514	203	CSF exclusive	CSF-SM_460_IGG	IGHV4-59	CATGLTTRVPPAFDITW	IGHJ3	CSF	4
57514	203	CSF exclusive	CSF-SM_460_IGG	IGHV4-59	CATGLTTRVPPAFDITW	IGHJ3	CSF	32
57514	204	Connecting to PB	CSF-SM_460_IGG	IGHV7-81	CAVEAYSYSWYVGWNW	IGHJ4	CSF	742
57514	204	Connecting to PB	SM_95720_IGG	IGHV7-81	CAVEAYSYSWYVGWNW	IGHJ4	PB	1
57514	205	Connecting to PB	CSF-SM_460_IGG	IGHV3-73	CFSVLGAERDW	IGHJ4	CSF	1
57514	205	Connecting to PB	PC_1055_IGG	IGHV3-73	CFSVLGAERDW	IGHJ4	PB	651
57514	206	CSF exclusive	CSF-SM_460_IGG	IGHV1-46	CGRDRRPFYDWSGVDW	IGHJ4	CSF	11
57514	206	CSF exclusive	CSF-SM_460_IGG	IGHV1-46	CGRDRRPFYDWSGIDDW	IGHJ4	CSF	41
57514	207	Connecting to PB	CSF-SM_460_IGG	IGHV3-48	CVRDPLWFGEISEEPSW	IGHJ5	CSF	1
57514	207	Connecting to PB	SM_95720_IGG	IGHV3-48	CVRDPLWFGEISEEPSW	IGHJ5	PB	10
57514	207	Connecting to PB	PC_1055_IGG	IGHV3-48	CVRDPLWFGEISEEPSW	IGHJ5	PB	509
57514	208	CSF exclusive	CSF-SM_460_IGG	IGHV1-69	CVREVGGLLWDPW	IGHJ5	CSF	145
57514	209	CSF exclusive	CSF-SM_460_IGG	IGHV3-7	CVRHGEGAGGDYW	IGHJ4	CSF	35
57514	210	CSF exclusive	CSF-SM_460_IGM	IGHV1-2	CAGGGIGGYDGGDHW	IGHJ5	CSF	24
57514	211	CSF exclusive	CSF-SM_460_IGM	IGHV2-5	CAHRRVQRTSLWFGVYGMVDW	IGHJ6	CSF	6
57514	211	CSF exclusive	CSF-USM_142_IGM	IGHV2-5	CAHRRVQRTSLWFGVYGMVDW	IGHJ6	CSF	2335
57514	212	Connecting to PB	CSF-SM_460_IGM	IGHV3-23	CAKEIVGPGVADYW	IGHJ4	CSF	1
57514	212	Connecting to PB	CSF-USM_142_IGM	IGHV3-23	CAKEIVGPGVADYW	IGHJ4	CSF	2
57514	212	Connecting to PB	CSF-USM_142_IGM	IGHV3-23	CAKEIVGPGVADYW	IGHJ4	CSF	34
57514	212	Connecting to PB	CSF-USM_142_IGM	IGHV3-23	CAKEIVGPGVADYW	IGHJ4	CSF	343
57514	212	Connecting to PB	USM_84463_IGM	IGHV3-23	CAKEIVGPGVADNW	IGHJ4	PB	1
57514	213	Connecting to PB	CSF-SM_460_IGM	IGHV3-23	CAKELQSGTYYPFDYW	IGHJ4	CSF	5
57514	213	Connecting to PB	SM_95720_IGG	IGHV3-23	CAKELSGRHPYFDYW	IGHJ4	PB	2
57514	213	Connecting to PB	USM_84463_IGM	IGHV3-23	CAKELSGTYYPFDYW	IGHJ4	PB	4
57514	213	Connecting to PB	SM_95720_IGM	IGHV3-23	CAKELQSGRHPYLDYW	IGHJ4	PB	4
57514	213	Connecting to PB	USM_84463_IGM	IGHV3-23	CAKELQSGRYYPFDYW	IGHJ4	PB	5
57514	214	CSF exclusive	CSF-SM_460_IGM	IGHV3-23	CAKGGWFGESFDYW	IGHJ4	CSF	62
57514	215	CSF exclusive	CSF-SM_460_IGM	IGHV3-23	CAKRSHRDDYWASFDIW	IGHJ3	CSF	8
57514	216	Connecting to PB	CSF-SM_460_IGM	IGHV1-3	CARAPPSSWGYLDNW	IGHJ4	CSF	1
57514	216	Connecting to PB	USM_84463_IGM	IGHV1-3	CARAPPSSWGYLDNW	IGHJ4	PB	47
57514	216	Connecting to PB	SM_95720_IGM	IGHV1-3	CARAPPSSWGYLDNW	IGHJ4	PB	179
57514	217	CSF exclusive	CSF-SM_460_IGM	IGHV3-11	CARDCGYSSGQRDGYW	IGHJ4	CSF	14
57514	218	CSF exclusive	CSF-SM_460_IGM	IGHV3-30	CARDDRGWYVVDW	IGHJ5	CSF	9
57514	219	CSF exclusive	CSF-SM_460_IGM	IGHV1-18	CARDGYCSSTSCYADYYYYGMDVW	IGHJ6	CSF	1
57514	219	CSF exclusive	CSF-USM_142_IGM	IGHV1-18	CARDGYCSSTSCYADYYYYGMDVW	IGHJ6	CSF	504
57514	220	Connecting to PB	CSF-SM_460_IGM	IGHV1-2	CARDHPDCSDSNCTW	IGHJ5	CSF	1
57514	220	Connecting to PB	CSF-USM_142_IGM	IGHV1-2	CARDHPDCSDSNCTW	IGHJ5	CSF	237
57514	220	Connecting to PB	USM_84463_IGM	IGHV1-2	CARDHPDCSDSGCTW	IGHJ5	PB	3
57514	220	Connecting to PB	USM_84463_IGM	IGHV1-2	CARDHEDCTDSSCTW	IGHJ5	PB	4
57514	220	Connecting to PB	USM_84463_IGM	IGHV1-2	CARDHEDCRDNSCTW	IGHJ5	PB	5
57514	220	Connecting to PB	USM_84463_IGM	IGHV1-2	CARDHEDCTDSSCTW	IGHJ5	PB	8
57514	221	Connecting to PB	CSF-SM_460_IGM	IGHV4-59	CARDIGGWYGGDYW	IGHJ4	CSF	38
57514	221	Connecting to PB	USM_84463_IGM	IGHV4-59	CARDIGGWYGGDYW	IGHJ4	PB	5
57514	222	CSF exclusive	CSF-SM_460_IGM	IGHV3-53	CARDRTSSAESNFPDVFDIW	IGHJ3	CSF	63
57514	223	CSF exclusive	CSF-SM_460_IGM	IGHV4-39	CARENCGGGCYSIDYW	IGHJ4	CSF	1
57514	224	Connecting to PB	CSF-SM_460_IGM	IGHV4-59	CARENCSGGGCYSIDYW	IGHJ4	CSF	106
57514	224	Connecting to PB	USM_84463_IGM	IGHV4-59	CARESCSGGCYSIDYW	IGHJ4	PB	2
57514	225	Connecting to PB	CSF-USM_142_IGM	IGHV3-7	CTRERPFASAFDIR	IGHJ3	CSF	2
57514	225	Connecting to PB	CSF-SM_460_IGM	IGHV3-7	CARERPFASAFDIW	IGHJ3	CSF	53
57514	225	Connecting to PB	CSF-USM_142_IGM	IGHV3-7	CARERPFASAFDIW	IGHJ3	CSF	167
57514	225	Connecting to PB	USM_84463_IGM	IGHV3-7	CARERPFASAFDIW	IGHJ3	PB	1
57514	225	Connecting to PB	SM_95720_IGG	IGHV3-7	CARERPFASAFDIW	IGHJ3	PB	1
57514	226	CSF exclusive	CSF-SM_460_IGM	IGHV6-1	CARGGYGDYVFRFDYW	IGHJ4	CSF	67
57514	227	CSF exclusive	CSF-SM_460_IGM	IGHV4-59	CARGNPFYSSSYGMDVW	IGHJ6	CSF	2
57514	227	CSF exclusive	CSF-USM_142_IGM	IGHV4-59	CARGNPFYSSSYGMDVW	IGHJ6	CSF	729
57514	228	Connecting to PB	CSF-SM_460_IGM	IGHV1-18	CARGPKSSSGSPIWYW	IGHJ4	CSF	159
57514	228	Connecting to PB	USM_84463_IGM	IGHV1-18	CARGPKSSSGSPIWYW	IGHJ4	PB	42
57514	229	CSF exclusive	CSF-SM_460_IGM	IGHV4-39	CARGSDYGDHGYFQHW	IGHJ1	CSF	26
57514	230	CSF exclusive	CSF-SM_460_IGM	IGHV4-34	CARGSGFWSGQWYGMVDW	IGHJ6	CSF	16
57514	231	CSF exclusive	CSF-SM_460_IGM	IGHV4-59	CARGSGGSGSYFDYW	IGHJ4	CSF	75
57514	232	CSF exclusive	CSF-SM_460_IGM	IGHV3-7	CARGTTETPGNDYW	IGHJ4	CSF	6
57514	233	Connecting to PB	CSF-SM_460_IGM	IGHV7-81	CARGWNYDSSGYRFDYW	IGHJ4	CSF	3
57514	233	Connecting to PB	CSF-USM_142_IGM	IGHV7-81	CARGWNYDSSGYRFDYW	IGHJ4	CSF	2680
57514	233	Connecting to PB	USM_84463_IGM	IGHV7-81	CARGWNYDSSGYRFDYW	IGHJ4	PB	25
57514	234	Connecting to PB	CSF-SM_460_IGM	IGHV5-51	CARGYCSGTSCYRFDW	IGHJ4	CSF	2
57514	234	Connecting to PB	CSF-USM_142_IGM	IGHV5-51	CARGYCSGTSCYRFDW	IGHJ4	CSF	165

57514	234	Connecting to PB	USM_84463_IGM	IGHV5-51	CARGHCSSTSCYRFDWW	IGHJ4	PB	1
57514	234	Connecting to PB	USM_84463_IGM	IGHV5-51	CARGYCSRTSCYRFDYW	IGHJ4	PB	3
57514	234	Connecting to PB	USM_84463_IGM	IGHV5-51	CARGYCSSTSCYRFDWW	IGHJ4	PB	7
57514	235	Connecting to PB	CSF-SM_460_IGM	IGHV3-23	CARHWGSGKWYDYY	IGHJ4	CSF	5
57514	235	Connecting to PB	USM_84463_IGM	IGHV3-23	CARHWGSGRWYDYSW	IGHJ4	PB	2
57514	235	Connecting to PB	USM_84463_IGM	IGHV3-23	CARHWGSGRWYDYY	IGHJ4	PB	3
57514	235	Connecting to PB	USM_84463_IGM	IGHV3-23	CARHWGSGRWYDYY	IGHJ4	PB	5
57514	235	Connecting to PB	SM_95720_IGM	IGHV3-23	CARHWGSGRWYDYY	IGHJ4	PB	9
57514	235	Connecting to PB	SM_95720_IGM	IGHV3-23	CARHWGSGTWYDYY	IGHJ4	PB	10
57514	235	Connecting to PB	USM_84463_IGM	IGHV3-23	CARHLGSGRWCLDYW	IGHJ4	PB	14
57514	235	Connecting to PB	SM_95720_IGM	IGHV3-23	CGRHWGSGKWLYDYW	IGHJ4	PB	16
57514	235	Connecting to PB	USM_84463_IGM	IGHV3-23	CARHWGSGKWYDYY	IGHJ4	PB	17
57514	235	Connecting to PB	SM_95720_IGM	IGHV3-23	CARHWGSGKWYDYY	IGHJ4	PB	22
57514	235	Connecting to PB	SM_95720_IGM	IGHV3-23	CARHLGSGRWCLDYW	IGHJ4	PB	29
57514	235	Connecting to PB	SM_95720_IGM	IGHV3-23	CARHWGSGKWYDYY	IGHJ4	PB	42
57514	235	Connecting to PB	USM_84463_IGM	IGHV3-23	CARHWGSGKWYDYY	IGHJ4	PB	43
57514	236	CSF exclusive	CSF-SM_460_IGM	IGHV2-26	CARIENGRGRPVIPAPFDYW	IGHJ4	CSF	1538
57514	237	Connecting to PB	CSF-SM_460_IGM	IGHV1-3	CARKGYFASGHYSDFDYW	IGHJ4	CSF	512
57514	237	Connecting to PB	USM_84463_IGM	IGHV1-3	CARKDYFASGHYSDFDYW	IGHJ4	PB	6
57514	237	Connecting to PB	USM_84463_IGM	IGHV1-3	CARKGYFSSGHYSDFDYW	IGHJ4	PB	13
57514	237	Connecting to PB	SM_95720_IGG	IGHV1-3	CARKGYFSSGHYSDFDYW	IGHJ4	PB	35
57514	237	Connecting to PB	USM_84463_IGM	IGHV1-3	CARKGYFHSGHYSDFDYW	IGHJ4	PB	50
57514	238	CSF exclusive	CSF-SM_460_IGM	IGHV6-1	CARTLIAVAGTGFDPYW	IGHJ4	CSF	4
57514	238	CSF exclusive	CSF-USM_142_IGM	IGHV6-1	CARTLIAVAGTGFDPYW	IGHJ4	CSF	1795
57514	239	CSF exclusive	CSF-SM_460_IGM	IGHV3-7	CARYSCTTTTCYLFDPYW	IGHJ4	CSF	18
57514	240	Connecting to PB	CSF-SM_460_IGM	IGHV3-7	CATAARGDNYGSSSW	IGHJ5	CSF	7
57514	240	Connecting to PB	SM_95720_IGG	IGHV3-7	CASAARGDNYGSSSLW	IGHJ5	PB	1
57514	240	Connecting to PB	SM_95720_IGG	IGHV3-7	CASAARGDNYGSSSLW	IGHJ5	PB	3
57514	241	Connecting to PB	CSF-USM_142_IGM	IGHV4-4	CATGDTGGWSRINYW	IGHJ4	CSF	3
57514	241	Connecting to PB	CSF-SM_460_IGM	IGHV4-4	CATGDTSGWSGAINYW	IGHJ4	CSF	4
57514	241	Connecting to PB	CSF-USM_142_IGM	IGHV4-4	CATGDTSGWSGAINYW	IGHJ4	CSF	1125
57514	241	Connecting to PB	USM_84463_IGM	IGHV4-4	CARGDTSWGSAIDYW	IGHJ4	PB	7
57514	242	Connecting to PB	CSF-SM_460_IGM	IGHV3-30	CATVRGGYSGYCDYW	IGHJ4	CSF	17
57514	242	Connecting to PB	USM_84463_IGM	IGHV3-30	CATVRDGYSGYCDHW	IGHJ4	PB	1
57514	242	Connecting to PB	USM_84463_IGM	IGHV3-30	CTTVRDGYSGYCDYW	IGHJ4	PB	2
57514	242	Connecting to PB	USM_84463_IGM	IGHV3-30	CATVRDGYSGYCDYW	IGHJ4	PB	5
57514	242	Connecting to PB	USM_84463_IGM	IGHV3-30	CATVRGGYSGYCDYW	IGHJ4	PB	9
57514	243	CSF exclusive	CSF-SM_460_IGM	IGHV3-21	CAYSLHYGDYPIYW	IGHJ4	CSF	21
57514	244	Connecting to PB	CSF-SM_460_IGM	IGHV3-72	CTRSGLLVRVIDLDYW	IGHJ4	CSF	6
57514	244	Connecting to PB	USM_84463_IGM	IGHV3-72	CTRSGLLVRVIDLDYW	IGHJ4	PB	3
57514	244	Connecting to PB	USM_84463_IGM	IGHV3-72	CTRSGLLVRVIDLDYW	IGHJ4	PB	3
57514	245	Connecting to PB	CSF-SM_460_IGM	IGHV3-7	CVRDYGPSDYW	IGHJ4	CSF	46
57514	245	Connecting to PB	USM_84463_IGM	IGHV3-7	CVRDYGPSDYW	IGHJ4	PB	1
57514	246	Connecting to PB	CSF-SM_460_IGM	IGHV1-46	CVREMSGGTWDYW	IGHJ4	CSF	227
57514	246	Connecting to PB	USM_84463_IGM	IGHV1-46	CVREMSGGTWDYW	IGHJ4	PB	11
57514	247	Connecting to PB	CSF-USM_142_IGM	IGHV2-5	CAHIECAGCWIASW	IGHJ4	CSF	21
57514	247	Connecting to PB	USM_84463_IGM	IGHV2-5	CAHIECAGCWIDYW	IGHJ4	PB	12
57514	247	Connecting to PB	USM_84463_IGM	IGHV2-5	CAHIECAGCWIAYW	IGHJ4	PB	19
57514	247	Connecting to PB	USM_84463_IGM	IGHV2-5	CAHIECAGCWIDHW	IGHJ4	PB	21
57514	247	Connecting to PB	SM_95720_IGM	IGHV2-5	CAYIECAGCWIDSW	IGHJ4	PB	202
57514	248	CSF exclusive	CSF-USM_142_IGM	IGHV2-5	CAHKREETQRGVYHFDYW	IGHJ4	CSF	1233
57514	249	Connecting to PB	CSF-USM_142_IGM	IGHV2-5	CAHRVTIVGPFDPW	IGHJ4	CSF	182
57514	249	Connecting to PB	USM_84463_IGM	IGHV2-5	CAHRVTIVGPFDPW	IGHJ4	PB	5
57514	250	CSF exclusive	CSF-USM_142_IGM	IGHV2-5	CAHSYHYDYIWGSYRHSFDYW	IGHJ4	CSF	236
57514	251	CSF exclusive	CSF-USM_142_IGM	IGHV1-18	CAIGGGVPAAPYSIDYW	IGHJ4	CSF	44
57514	252	Connecting to PB	CSF-USM_142_IGM	IGHV3-9	CAKASTMILVLSLSDYW	IGHJ4	CSF	144
57514	252	Connecting to PB	USM_84463_IGM	IGHV3-9	CAKASTMILVLSLSDYW	IGHJ4	PB	16
57514	253	CSF exclusive	CSF-USM_142_IGM	IGHV3-9	CAKIDGPDYYPGMVDW	IGHJ6	CSF	375
57514	254	CSF exclusive	CSF-USM_142_IGM	IGHV3-9	CAKDKGSSSWYAEDYW	IGHJ4	CSF	30
57514	255	CSF exclusive	CSF-USM_142_IGM	IGHV3-23	CAKDMAVAGTNDYFDYW	IGHJ4	CSF	318
57514	256	Connecting to PB	CSF-USM_142_IGM	IGHV3-23	CAKDRDDYGDPAFDI W	IGHJ3	CSF	8
57514	256	Connecting to PB	USM_84463_IGM	IGHV3-23	CAKDRDDYGDPAFDVW	IGHJ3	PB	4
57514	257	Connecting to PB	CSF-USM_142_IGM	IGHV3-30	CAKDRHIVATTPDYW	IGHJ4	CSF	83
57514	257	Connecting to PB	SM_95720_IGM	IGHV3-30	CAKDRHIVATTPDYW	IGHJ4	PB	1
57514	258	CSF exclusive	CSF-USM_142_IGM	IGHV3-23	CAKEARSTRDLYLEYW	IGHJ4	CSF	16
57514	259	CSF exclusive	CSF-USM_142_IGM	IGHV3-23	CAKEGGEAVAGRIPPHYW	IGHJ4	CSF	115
57514	260	CSF exclusive	CSF-USM_142_IGM	IGHV3-23	CAKGDYGEWFDPW	IGHJ5	CSF	4
57514	261	Connecting to PB	CSF-USM_142_IGM	IGHV3-23	CAKGHDYQPDYW	IGHJ4	CSF	292
57514	261	Connecting to PB	USM_84463_IGM	IGHV3-23	CAKGHDYQFGHW	IGHJ4	PB	1
57514	261	Connecting to PB	USM_84463_IGM	IGHV3-23	CARGPDYQPDYW	IGHJ4	PB	1
57514	261	Connecting to PB	USM_84463_IGM	IGHV3-23	CAKGYDYQPGYW	IGHJ4	PB	2
57514	261	Connecting to PB	USM_84463_IGM	IGHV3-23	CARGPDYQFGYW	IGHJ4	PB	3
57514	261	Connecting to PB	USM_84463_IGM	IGHV3-23	CAKGPDYQPGYW	IGHJ4	PB	4
57514	261	Connecting to PB	USM_84463_IGM	IGHV3-23	CARGHDYQPYW	IGHJ4	PB	7
57514	261	Connecting to PB	USM_84463_IGM	IGHV3-23	CAKGHDYQPDYW	IGHJ4	PB	13
57514	262	CSF exclusive	CSF-USM_142_IGM	IGHV3-23	CAKLTGTFTSRAFDNW	IGHJ4	CSF	68
57514	263	CSF exclusive	CSF-USM_142_IGM	IGHV3-23	CAKPDWTGSGYYPYFDLW	IGHJ2	CSF	41
57514	264	CSF exclusive	CSF-USM_142_IGM	IGHV3-23	CAKRGDLGGDLGKYPDTW	IGHJ4	CSF	52
57514	265	CSF exclusive	CSF-USM_142_IGM	IGHV3-23	CAKDMTGTGPDYDCW	IGHJ4	CSF	161
57514	266	Connecting to PB	CSF-USM_142_IGM	IGHV2-5	CAQCSRFGEPLDYW	IGHJ4	CSF	907
57514	266	Connecting to PB	USM_84463_IGM	IGHV2-5	CAQCSRFGEPLDYW	IGHJ4	PB	10
57514	266	Connecting to PB	USM_84463_IGM	IGHV2-5	CAQCSRFGEPLDYW	IGHJ4	PB	201
57514	267	CSF exclusive	CSF-USM_142_IGM	IGHV4-28	CARAPPYDSSDYYPGVVDYW	IGHJ4	CSF	1
57514	268	CSF exclusive	CSF-USM_142_IGM	IGHV4-59	CARAGSSGWTW	IGHJ5	CSF	316
57514	269	Connecting to PB	CSF-USM_142_IGM	IGHV4-4	CARDAYSTTWDSDFTW	IGHJ4	CSF	25

57514	269	Connecting to PB	CSF-USM_142_IGM	IGHV4-4	CARDAYSTTWDSFDIW	IGHJ4	CSF	529
57514	269	Connecting to PB	SM_95720_IGM	IGHV4-4	CARDAYSTTWDSFDIW	IGHJ4	PB	1
57514	270	Connecting to PB	CSF-USM_142_IGM	IGHV4-4	CARDAYYDTSGYVLDYW	IGHJ4	CSF	1
57514	270	Connecting to PB	USM_84463_IGM	IGHV4-4	CARDAYYDTSGYVLDYW	IGHJ4	PB	1
57514	270	Connecting to PB	SM_95720_IGG	IGHV4-4	CARDAYYDTSGHYVIGYW	IGHJ4	PB	1
57514	270	Connecting to PB	SM_95720_IGG	IGHV4-4	CARDAYYDTSGYLLTDYW	IGHJ4	PB	2
57514	270	Connecting to PB	SM_95720_IGM	IGHV4-4	CARDAYYDTSGYVLDYW	IGHJ4	PB	5
57514	270	Connecting to PB	USM_84463_IGM	IGHV4-4	CARDAYYDTSGYLLTDYW	IGHJ4	PB	9
57514	270	Connecting to PB	USM_84463_IGM	IGHV4-4	CARDAYYDTSGYLLDYW	IGHJ4	PB	16
57514	270	Connecting to PB	SM_95720_IGG	IGHV4-4	CARDAYYDTSGYVLDYW	IGHJ4	PB	33
57514	270	Connecting to PB	SM_95720_IGG	IGHV4-4	CARDAYYDTSGYVLDYW	IGHJ4	PB	992
57514	270	Connecting to PB	PC_1055_IGM	IGHV4-4	CARDAYYDTSGYLLDYW	IGHJ4	PB	1605
57514	270	Connecting to PB	SM_95720_IGM	IGHV4-4	CARDAYYDTSGYLLTDYW	IGHJ4	PB	2633
57514	271	CSF exclusive	CSF-USM_142_IGM	IGHV3-30	CARDENDIAAAGTTRYYYGMDVW	IGHJ6	CSF	81
57514	272	Connecting to PB	CSF-USM_142_IGM	IGHV1-18	CARDEVAVAGKVEDCW	IGHJ4	CSF	1
57514	272	Connecting to PB	CSF-USM_142_IGM	IGHV1-18	CARDEVAVAGKAKDCW	IGHJ4	CSF	264
57514	272	Connecting to PB	USM_84463_IGM	IGHV1-18	CARDEVTVAGKAKDCW	IGHJ4	PB	2
57514	273	Connecting to PB	CSF-USM_142_IGM	IGHV3-7	CARDGDDYGDFFDYW	IGHJ4	CSF	204
57514	273	Connecting to PB	USM_84463_IGM	IGHV3-7	CARDGADSGDDFDYW	IGHJ4	PB	2
57514	274	CSF exclusive	CSF-USM_142_IGM	IGHV1-18	CARDGYCSSTSCYADYYGMNVW	IGHJ6	CSF	1
57514	274	CSF exclusive	CSF-USM_142_IGM	IGHV1-18	CARDGYCSSTSCYADYYGMDVW	IGHJ6	CSF	12
57514	275	CSF exclusive	CSF-USM_142_IGM	IGHV1-69	CARDGYDFWSTSYKMAEDYW	IGHJ4	CSF	321
57514	276	Connecting to PB	CSF-USM_142_IGM	IGHV1-18	CARDIPGIVGVTSWFDPW	IGHJ5	CSF	1
57514	276	Connecting to PB	USM_84463_IGM	IGHV1-18	CARDIPGIVGVTSWFDPW	IGHJ5	PB	69
57514	277	Connecting to PB	CSF-USM_142_IGM	IGHV4-59	CARDREGSGKSYVSFDYW	IGHJ4	CSF	284
57514	277	Connecting to PB	SM_95720_IGM	IGHV4-59	CARDRESRGKSYVSFDYW	IGHJ4	PB	1
57514	277	Connecting to PB	USM_84463_IGM	IGHV4-59	CARDREGSARSYVSFDYW	IGHJ4	PB	4
57514	277	Connecting to PB	SM_95720_IGG	IGHV4-59	CARDREGAGKSYVSFDYW	IGHJ4	PB	14
57514	278	CSF exclusive	CSF-USM_142_IGM	IGHV4-4	CARDRGNDYGEYYFDDW	IGHJ4	CSF	55
57514	279	Connecting to PB	CSF-USM_142_IGM	IGHV3-11	CARDSRGSNSGYDWDYW	IGHJ4	CSF	99
57514	279	Connecting to PB	USM_84463_IGM	IGHV3-11	CARDSRGSNSGYDWDYW	IGHJ4	PB	1
57514	279	Connecting to PB	USM_84463_IGM	IGHV3-11	CARDSRRSDSGYDWDYW	IGHJ4	PB	1
57514	279	Connecting to PB	USM_84463_IGM	IGHV3-11	CARDSQGSNSGYDWDYW	IGHJ4	PB	2
57514	280	CSF exclusive	CSF-USM_142_IGM	IGHV1-18	CAREGDCSGDSCYFHYFDYW	IGHJ4	CSF	9
57514	281	Connecting to PB	CSF-USM_142_IGM	IGHV4-4	CAREITDINGWFIDSW	IGHJ4	CSF	268
57514	281	Connecting to PB	SM_95720_IGG	IGHV4-4	CAREITDINGWFIDSW	IGHJ4	PB	5
57514	282	CSF exclusive	CSF-USM_142_IGM	IGHV4-4	CARFGYSGYDFNYSYAMDVW	IGHJ6	CSF	228
57514	283	CSF exclusive	CSF-USM_142_IGM	IGHV3-53	CARGMHSSGWYGGFDHW	IGHJ1	CSF	1
57514	284	Connecting to PB	CSF-USM_142_IGM	IGHV4-59	CARGREGYHGPGSYYW	IGHJ4	CSF	1475
57514	284	Connecting to PB	Naive_175179_IGM	IGHV4-59	CARGREGYHGPGSYYW	IGHJ4	PB	1
57514	285	Connecting to PB	CSF-USM_142_IGM	IGHV5-51	CARGSVAGFMHVDDW	IGHJ4	CSF	597
57514	285	Connecting to PB	USM_84463_IGM	IGHV5-51	CARGSVAGFMHVDDW	IGHJ4	PB	1
57514	285	Connecting to PB	DN_18972_IGG	IGHV5-51	CAGGSVAGFMHVDDW	IGHJ4	PB	252
57514	286	Connecting to PB	CSF-USM_142_IGM	IGHV1-46	CARGVDYGGNSVPYGMVW	IGHJ6	CSF	8
57514	286	Connecting to PB	USM_84463_IGM	IGHV1-46	CARGVDYGGNSVPYGMVW	IGHJ6	PB	1
57514	286	Connecting to PB	USM_84463_IGM	IGHV1-46	CARGVDYGGNSIPYGMVW	IGHJ6	PB	3
57514	286	Connecting to PB	USM_84463_IGM	IGHV1-46	CARGVDYGGNSVPYGMVW	IGHJ6	PB	5
57514	286	Connecting to PB	USM_84463_IGM	IGHV1-46	CARGVDYGGNSIPYGLDWW	IGHJ6	PB	20
57514	287	Connecting to PB	CSF-USM_142_IGM	IGHV1-3	CARISSAQGLLGLDSW	IGHJ4	CSF	689
57514	287	Connecting to PB	USM_84463_IGM	IGHV1-3	CARISSAQGLLGLDSW	IGHJ4	PB	1
57514	288	CSF exclusive	CSF-USM_142_IGM	IGHV4-39	CARKAYCAGDRPFDYW	IGHJ4	CSF	59
57514	288	CSF exclusive	CSF-USM_142_IGM	IGHV4-39	CARKAYCAGDCPFDYW	IGHJ4	CSF	174
57514	289	CSF exclusive	CSF-USM_142_IGM	IGHV4-59	CARMVNSGYDYGWYYGMDVW	IGHJ6	CSF	18
57514	290	CSF exclusive	CSF-USM_142_IGM	IGHV4-59	CARMVNSGYDYGWYYGMDVW	IGHJ6	CSF	426
57514	291	Connecting to PB	CSF-USM_142_IGM	IGHV4-39	CARPLYDGRGYFFYW	IGHJ4	CSF	101
57514	291	Connecting to PB	USM_84463_IGM	IGHV4-39	CARPLYDGRGYFFYW	IGHJ4	PB	5
57514	291	Connecting to PB	USM_84463_IGM	IGHV4-39	CARLPDGRGYFFYW	IGHJ4	PB	6
57514	292	CSF exclusive	CSF-USM_142_IGM	IGHV1-2	CARSCNYNTCNNFYFFGMDVW	IGHJ6	CSF	51
57514	293	CSF exclusive	CSF-USM_142_IGM	IGHV3-7	CARTRSGWLTFFNIW	IGHJ3	CSF	1
57514	293	CSF exclusive	CSF-USM_142_IGM	IGHV3-7	CARTRSGWLTFFDIW	IGHJ3	CSF	14
57514	294	CSF exclusive	CSF-USM_142_IGM	IGHV4-4	CARVEDDYSNPSW	IGHJ5	CSF	1
57514	295	CSF exclusive	CSF-USM_142_IGM	IGHV4-59	CARVGQMTAIRANDYYHSMVW	IGHJ6	CSF	76
57514	296	CSF exclusive	CSF-USM_142_IGM	IGHV3-7	CARVGQQLVPDWFDPW	IGHJ5	CSF	32
57514	297	CSF exclusive	CSF-USM_142_IGM	IGHV4-31	CARVMTTVTYEAWFDPW	IGHJ5	CSF	580
57514	298	CSF exclusive	CSF-USM_142_IGM	IGHV3-74	CARVNWNWFPDPW	IGHJ5	CSF	14
57514	299	Connecting to PB	CSF-USM_142_IGM	IGHV6-1	CARVSHHSKPLW	IGHJ1	CSF	474
57514	299	Connecting to PB	SM_95720_IGM	IGHV6-1	CARVSHHSKPLW	IGHJ1	PB	1
57514	299	Connecting to PB	USM_84463_IGM	IGHV6-1	SARVSHNSRPLW	IGHJ1	PB	1
57514	299	Connecting to PB	USM_84463_IGM	IGHV6-1	CARVSHNSRPLW	IGHJ1	PB	27
57514	300	CSF exclusive	CSF-USM_142_IGM	IGHV1-3	CARVSYDTSGYGAGSRPTEYYHGMDVW	IGHJ6	CSF	86
57514	301	Connecting to PB	CSF-USM_142_IGM	IGHV1-2	CASSGRGYSYGYDVDYFDYW	IGHJ4	CSF	587
57514	301	Connecting to PB	USM_84463_IGM	IGHV1-2	CASSGRGYSYGYDVDYFDYW	IGHJ4	PB	23
57514	302	CSF exclusive	CSF-USM_142_IGM	IGHV3-9	CGKGYCSGICYLSDYW	IGHJ4	CSF	231
57514	303	Connecting to PB	CSF-USM_142_IGM	IGHV3-15	CKHEHNINYGMDVW	IGHJ6	CSF	17
57514	303	Connecting to PB	USM_84463_IGM	IGHV3-15	CKHEHSENYGMDVW	IGHJ6	PB	5
57514	303	Connecting to PB	SM_95720_IGM	IGHV3-15	CKHEHNINYGMDVW	IGHJ6	PB	7
57514	304	Connecting to PB	CSF-USM_142_IGM	IGHV3-7	CSRSLNYW	IGHJ4	CSF	155
57514	304	Connecting to PB	USM_84463_IGM	IGHV3-7	CVRDIDYW	IGHJ4	PB	1
57514	304	Connecting to PB	USM_84463_IGM	IGHV3-7	CARSIDYW	IGHJ4	PB	2
57514	304	Connecting to PB	USM_84463_IGM	IGHV3-7	CSWSLNYW	IGHJ4	PB	2
57514	304	Connecting to PB	USM_84463_IGM	IGHV3-7	CVRDLIDYW	IGHJ4	PB	2
57514	304	Connecting to PB	SM_95720_IGG	IGHV3-7	CSRSLDYW	IGHJ4	PB	3
57514	304	Connecting to PB	SM_95720_IGG	IGHV3-7	CVRDIDYW	IGHJ4	PB	3
57514	304	Connecting to PB	USM_84463_IGM	IGHV3-7	CSRRLNYW	IGHJ4	PB	4
57514	304	Connecting to PB	SM_95720_IGG	IGHV3-7	CSWSLNYW	IGHJ4	PB	4

57514	304	Connecting to PB	USM_84463_IGM	IGHV3-7	CTRSLDDW	IGHJ4	PB	4
57514	304	Connecting to PB	SM_95720_IGG	IGHV3-7	CSRSLNYW	IGHJ4	PB	5
57514	304	Connecting to PB	USM_84463_IGM	IGHV3-7	CTRSLDYW	IGHJ4	PB	5
57514	304	Connecting to PB	USM_84463_IGM	IGHV3-7	CSRSLNYW	IGHJ4	PB	21
57514	305	Connecting to PB	CSF-USM_142_IGM	IGHV4-34	CTRDIYGVAGLW	IGHJ5	CSF	1185
57514	305	Connecting to PB	USM_84463_IGM	IGHV4-34	CTRDVYGVAGLW	IGHJ5	PB	1
57514	305	Connecting to PB	USM_84463_IGM	IGHV4-34	CTRDIYGVAGLW	IGHJ5	PB	26
57514	306	CSF exclusive	CSF-USM_142_IGM	IGHV3-73	CTRYAGDNAFDIW	IGHJ3	CSF	174
57514	307	CSF exclusive	CSF-USM_142_IGM	IGHV3-15	CTTVLNYGGNPSGYDFW	IGHJ4	CSF	72
57514	308	CSF exclusive	CSF-USM_142_IGM	IGHV3-7	CVCDYAGGSKFDYW	IGHJ4	CSF	30
57514	309	CSF exclusive	CSF-USM_142_IGM	IGHV3-30	CVKPGYSSGWYDFW	IGHJ5	CSF	183
57514	310	CSF exclusive	CSF-USM_142_IGM	IGHV3-48	CVRGDESGWDFDYW	IGHJ4	CSF	196
57514	311	CSF exclusive	CSF-USM_142_IGM	IGHV4-59	CVRKRRCDFDYW	IGHJ4	CSF	4
57514	312	Connecting to PB	CSF-USM_142_IGM	IGHV3-11	CVSSQGYCTTTTCYNNWFDIW	IGHJ5	CSF	117
57514	312	Connecting to PB	USM_84463_IGM	IGHV3-11	CVSSQGYCTTATCYNNWFDIL	IGHJ5	PB	6
57514	313	CSF exclusive	CSF-USM_142_IGM	IGHV3-33-2	DVDYFDYW	IGHJ4	CSF	2
57714	1	CSF exclusive	CSF-DN_177_IGG	IGHV3-21	CAGDRLYNSGWKDYGMVW	IGHJ6	CSF	1
57714	1	CSF exclusive	CSF-DN_177_IGG	IGHV3-21	CARDRLYNSWWDYGMVW	IGHJ6	CSF	68
57714	2	CSF exclusive	CSF-DN_177_IGG	IGHV4-39	CAGQAGGNSGACFDWC	IGHJ4	CSF	3
57714	2	CSF exclusive	CSF-DN_177_IGG	IGHV4-39	CAGQAGGNSGAYFDYW	IGHJ4	CSF	848
57714	3	CSF exclusive	CSF-DN_177_IGG	IGHV4-55	CAGSLKRSRYPKQDYGMVW	IGHJ6	CSF	336
57714	4	CSF exclusive	CSF-DN_177_IGG	IGHV2-5	CAHSEYDFWSGYTGPWFDPW	IGHJ5	CSF	2702
57714	5	CSF exclusive	CSF-DN_177_IGG	IGHV2-5	CAHSQGYDFWNGYSTFYFDPW	IGHJ5	CSF	983
57714	6	Connecting to PB	CSF-DN_177_IGG	IGHV2-5	CAHSTYHSDSSGSQFYSPVYW	IGHJ4	CSF	10
57714	6	Connecting to PB	CSF-DN_177_IGG	IGHV2-5	CAHSTYHSDSSGSQFYSPVYW	IGHJ4	CSF	1413
57714	6	Connecting to PB	DN_87942_IGG	IGHV2-5	CAHSTYHSDSSGSQFYSPVYW	IGHJ4	PB	16
57714	7	Connecting to PB	CSF-DN_177_IGG	IGHV3-23	CAKANVVVPAVNDVFDIW	IGHJ3	CSF	34
57714	7	Connecting to PB	CSF-DN_177_IGG	IGHV3-23	CAKVVVVVPAVNDVFDIW	IGHJ3	CSF	308
57714	7	Connecting to PB	DN_87942_IGG	IGHV3-23	CAKVVVVVPAVNDVFDIW	IGHJ3	PB	1298
57714	8	CSF exclusive	CSF-DN_177_IGG	IGHV3-9	CAKDLNWNVKAFCDC	IGHJ4	CSF	49
57714	9	CSF exclusive	CSF-DN_177_IGG	IGHV3-9	CAKDMGLDGCYSGCGIDVW	IGHJ6	CSF	306
57714	10	CSF exclusive	CSF-DN_177_IGG	IGHV4-39	CANSVDTTIVTMAFNIW	IGHJ3	CSF	68
57714	11	CSF exclusive	CSF-DN_177_IGG	IGHV1-69	CARAAADTSSIAAPQTTSDAFDIW	IGHJ3	CSF	730
57714	12	CSF exclusive	CSF-DN_177_IGG	IGHV1-69	CARAKSLFGDYSDTFGIW	IGHJ3	CSF	37
57714	13	CSF exclusive	CSF-DN_177_IGG	IGHV4-31	CARASSAGSCFSNW	IGHJ4	CSF	147
57714	14	CSF exclusive	CSF-DN_177_IGG	IGHV4-55	CARDLRRITIFGVVSRWPPYGMVW	IGHJ6	CSF	1
57714	15	CSF exclusive	CSF-DN_177_IGG	IGHV1-46	CARDSLANYDSRGRVFDIW	IGHJ3	CSF	53
57714	16	Connecting to PB	CSF-DN_177_IGG	IGHV4-59	CARESASLDYW	IGHJ4	CSF	1
57714	16	Connecting to PB	SM_178484_IGM	IGHV4-59	CARESASFDYW	IGHJ4	PB	504
57714	17	CSF exclusive	CSF-DN_177_IGG	IGHV4-39	CARGARYSDLLRPDIGAYFDYW	IGHJ4	CSF	83
57714	18	CSF exclusive	CSF-DN_177_IGG	IGHV4-34	CARGPDFWSGELDYW	IGHJ4	CSF	135
57714	19	CSF exclusive	CSF-DN_177_IGG	IGHV4-39	CARGSGGYVGVWFDPW	IGHJ5	CSF	19
57714	19	CSF exclusive	CSF-DN_177_IGG	IGHV4-39	CARGSGSYVGVWFDPW	IGHJ5	CSF	92
57714	20	CSF exclusive	CSF-DN_177_IGG	IGHV2-26	CARIVGLYYGSGTSGMDVW	IGHJ6	CSF	384
57714	21	CSF exclusive	CSF-DN_177_IGG	IGHV2-70	CARMELERQLNAFDIW	IGHJ3	CSF	964
57714	22	Connecting to PB	CSF-DN_177_IGG	IGHV3-7	CARNDRIGWYNDYW	IGHJ4	CSF	26021
57714	22	Connecting to PB	SM_178484_IGG	IGHV3-7	CARNDRIGWYNDYW	IGHJ4	PB	11
57714	23	CSF exclusive	CSF-DN_177_IGG	IGHV5-51	CARLRYTSSGWYAFDYW	IGHJ4	CSF	312
57714	24	CSF exclusive	CSF-DN_177_IGG	IGHV4-59	CARRTVDTSKVVFFHHYFMDVW	IGHJ6	CSF	10
57714	25	CSF exclusive	CSF-DN_177_IGG	IGHV3-21	CARSQNNYYDGGDYSGWYFDLW	IGHJ2	CSF	261
57714	26	CSF exclusive	CSF-DN_177_IGG	IGHV4-59	CARTSFWFAEYHGTFDIW	IGHJ3	CSF	80
57714	27	CSF exclusive	CSF-DN_177_IGG	IGHV4-34	CARVAARTVWVWGLMHLRPLVRYRLDLW	IGHJ2	CSF	1
57714	28	CSF exclusive	CSF-DN_177_IGG	IGHV3-7	CARVSSLTRRALFDYW	IGHJ4	CSF	191
57714	29	CSF exclusive	CSF-DN_177_IGG	IGHV3-30	CASDLGAARPRNFDYW	IGHJ4	CSF	94
57714	30	CSF exclusive	CSF-DN_177_IGG	IGHV4-39	CATFWASYGIDVW	IGHJ6	CSF	815
57714	31	CSF exclusive	CSF-DN_177_IGG	IGHV3-21	CGREYYASGSCDYW	IGHJ4	CSF	93
57714	32	CSF exclusive	CSF-DN_177_IGG	IGHV3-13	CRVRNDRIGWYNDYW	IGHJ4	CSF	238
57714	33	CSF exclusive	CSF-DN_177_IGG	IGHV3-73	CTSRGHYYDSSNYFVLDYW	IGHJ4	CSF	241
57714	34	CSF exclusive	CSF-DN_177_IGG	IGHV2-5	SDSSGSQFYSPVYW	IGHJ4	CSF	41
57714	35	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CAGHRFYMVRGVIFGFDPW	IGHJ5	CSF	253
57714	36	CSF exclusive	CSF-Naive_618_IGM	IGHV2-5	CAHGITYDSDAMDVW	IGHJ6	CSF	352
57714	37	CSF exclusive	CSF-Naive_618_IGM	IGHV2-5	CAHRGVYDILTGHNNWFDPW	IGHJ5	CSF	563
57714	38	Connecting to PB	CSF-Naive_618_IGM	IGHV2-5	CAHRRDVCSSTRCYSVFDPW	IGHJ5	CSF	204
57714	38	Connecting to PB	SM_178484_IGG	IGHV2-5	CAHRRDVCSSTRCYSVFDPW	IGHJ5	PB	2
57714	39	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CAISRGYYLNFDPW	IGHJ4	CSF	6
57714	40	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CAKAATLISNWFDPW	IGHJ5	CSF	10
57714	41	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CAKATYGGWVDYW	IGHJ4	CSF	133
57714	42	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CAKDERLHDYR	IGHJ4	CSF	2
57714	42	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CAKDERLHDYW	IGHJ4	CSF	49
57714	43	CSF exclusive	CSF-Naive_618_IGM	IGHV3-9	CAKDKDSSGLIRAFDIW	IGHJ3	CSF	60
57714	44	CSF exclusive	CSF-Naive_618_IGM	IGHV3-43	CAKDLVGGDGDYW	IGHJ4	CSF	55
57714	45	CSF exclusive	CSF-Naive_618_IGM	IGHV3-43	CAKDMRSGSYGAFDIW	IGHJ3	CSF	117
57714	46	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CAKDRQQQLVNYYGMDVW	IGHJ6	CSF	26
57714	47	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CAKDRASGLRGVYGMVW	IGHJ6	CSF	79
57714	48	CSF exclusive	CSF-Naive_618_IGM	IGHV3-43	CAGKGLQDYGMVW	IGHJ6	CSF	1
57714	48	CSF exclusive	CSF-Naive_618_IGM	IGHV3-43	CAKEGLQDYGMVW	IGHJ6	CSF	16
57714	49	CSF exclusive	CSF-Naive_618_IGM	IGHV3-9	CAKEQGYSGSYFGLGDAFDIW	IGHJ3	CSF	23
57714	50	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CAKESGYSDPQYHYGMVW	IGHJ6	CSF	14
57714	51	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CAKEWALYDRRFDPW	IGHJ5	CSF	59
57714	52	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CAKGLSVDYDSSGYDDAFDIW	IGHJ3	CSF	78
57714	53	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CAKGNYSYSSWYFDPW	IGHJ5	CSF	38
57714	54	CSF exclusive	CSF-Naive_618_IGM	IGHV3-9	CAKGRLSPTDALEMW	IGHJ3	CSF	24
57714	55	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CAKLRDRGYNEYWYFDLW	IGHJ2	CSF	386
57714	56	CSF exclusive	CSF-USM_999_IGM	IGHV4-34	CARNEYFDYW	IGHJ4	CSF	66
57714	56	CSF exclusive	CSF-Naive_618_IGM	IGHV4-34	CAKNEFFDYW	IGHJ4	CSF	395

57714	57	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CAKSPYYDSSGGYYDYW	IGHJ4	CSF	18
57714	58	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CAKTPYANYDSSSSFDYW	IGHJ4	CSF	33
57714	59	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CARARRGYSYGYIDYW	IGHJ4	CSF	12
57714	60	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARAYSSGWDHDIW	IGHJ4	CSF	173
57714	61	CSF exclusive	CSF-Naive_618_IGM	IGHV1-8	CARAYYRGAFDIW	IGHJ3	CSF	82
57714	62	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CARDAKYCSSTSCYRWFDPW	IGHJ5	CSF	123
57714	63	CSF exclusive	CSF-Naive_618_IGM	IGHV3-7	CARDARLSSGWYRGQDNWFDPW	IGHJ5	CSF	21
57714	64	Connecting to PB	CSF-Naive_618_IGM	IGHV3-74	CARDLDDYW	IGHJ4	CSF	9
57714	64	Connecting to PB	Naive_200000_IGM	IGHV3-74	CARDLVDYW	IGHJ4	PB	3
57714	65	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARDERIAVAAWFDPW	IGHJ5	CSF	36
57714	66	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CARDPRAGGMDVW	IGHJ6	CSF	82
57714	67	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARDGGEWELLQAFDIW	IGHJ3	CSF	328
57714	68	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARDGGTRTARALNW	IGHJ4	CSF	54
57714	69	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CARDGPWAIDYW	IGHJ4	CSF	1
57714	70	CSF exclusive	CSF-Naive_618_IGM	IGHV3-53	CARDGPYGDFLHRYFDLW	IGHJ2	CSF	6
57714	71	CSF exclusive	CSF-USM_999_IGM	IGHV1-18	CARDGTVTRDIW	IGHJ4	CSF	1
57714	71	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CTRDGTVTRDIW	IGHJ4	CSF	25
57714	71	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CARDGTVTRDIW	IGHJ4	CSF	693
57714	72	CSF exclusive	CSF-Naive_618_IGM	IGHV4-4	CARDGVDVVVITRGAFDIW	IGHJ3	CSF	252
57714	73	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARDHYSGSYFDYW	IGHJ4	CSF	59
57714	74	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARDIGDGYSAHW	IGHJ4	CSF	40
57714	75	CSF exclusive	CSF-Naive_618_IGM	IGHV4-31	CARDIGGYSYGPDIW	IGHJ4	CSF	5
57714	76	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CARDITGTYFFDYW	IGHJ4	CSF	188
57714	77	CSF exclusive	CSF-Naive_618_IGM	IGHV1-2	CARDKRGSSDYGDYGMVDVW	IGHJ6	CSF	150
57714	78	CSF exclusive	CSF-Naive_618_IGM	IGHV3-13	CARDLSSGWHYGMVDVW	IGHJ6	CSF	51
57714	79	Connecting to PB	CSF-Naive_618_IGM	IGHV1-46	CARDLGSDFLDYW	IGHJ4	CSF	6
57714	79	Connecting to PB	DN_87942_IGG	IGHV1-46	CARDLGSYFDYW	IGHJ4	PB	1
57714	80	CSF exclusive	CSF-Naive_618_IGM	IGHV3-53	CARDLGTNAFDIW	IGHJ3	CSF	100
57714	81	CSF exclusive	CSF-Naive_618_IGM	IGHV3-11	CARDLISWYFFDYW	IGHJ4	CSF	48
57714	82	CSF exclusive	CSF-Naive_618_IGM	IGHV1-2	CARDLRLPAGTRYYYYGMVDVW	IGHJ6	CSF	12
57714	83	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CARDNAQLVPPYFDYW	IGHJ4	CSF	75
57714	84	CSF exclusive	CSF-Naive_618_IGM	IGHV1-2	CARDPVGSSGGYDW	IGHJ4	CSF	148
57714	85	CSF exclusive	CSF-Naive_618_IGM	IGHV3-7	CARDPRLRWYFDLW	IGHJ2	CSF	118
57714	86	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARDPTLSMIDAFDIW	IGHJ3	CSF	49
57714	87	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARDQCRDGSCTRPLDRW	IGHJ4	CSF	32
57714	88	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CARDQGHYGI PSDYW	IGHJ4	CSF	137
57714	89	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARDREAAPLHYFYGMVDVW	IGHJ6	CSF	165
57714	90	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARDRGGYDILTASYTSEAFDVW	IGHJ3	CSF	84
57714	91	Connecting to PB	CSF-Naive_618_IGM	IGHV4-39	CARDRPGVAAHYDW	IGHJ5	CSF	1
57714	91	Connecting to PB	PC_16850_IGM	IGHV4-39	CARDRPGAAAHYDW	IGHJ5	PB	1
57714	91	Connecting to PB	PC_16850_IGG	IGHV4-39	CARDRPGVAARYDW	IGHJ5	PB	1
57714	91	Connecting to PB	PC_16850_IGM	IGHV4-39	CARDRPGVAAHYDW	IGHJ5	PB	435
57714	92	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARDRVVPTRGYCGMDVW	IGHJ6	CSF	19
57714	93	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARDSGDSMDYDSSGGYYDYW	IGHJ4	CSF	176
57714	94	CSF exclusive	CSF-Naive_618_IGM	IGHV1-3	CARDSSGGRPWEHPRAFDSW	IGHJ4	CSF	129
57714	95	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CARDVSGHYVMDVW	IGHJ6	CSF	66
57714	96	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARDVVVAGAFDIW	IGHJ4	CSF	96
57714	97	Connecting to PB	CSF-Naive_618_IGM	IGHV3-48	CARDWGEYSSSSIGYW	IGHJ4	CSF	154
57714	97	Connecting to PB	Naive_200000_IGM	IGHV3-48	CARDWGEYSSSSIGYW	IGHJ4	PB	2
57714	97	Connecting to PB	USM_200000_IGM	IGHV3-48	CARDWGEYSSSSIGYW	IGHJ4	PB	6
57714	98	CSF exclusive	CSF-Naive_618_IGM	IGHV1-3	CAREDSSPRKDAFDIW	IGHJ3	CSF	440
57714	99	CSF exclusive	CSF-Naive_618_IGM	IGHV3-48	CAREEGYYDSSGYPTDYW	IGHJ4	CSF	22
57714	99	CSF exclusive	CSF-Naive_618_IGM	IGHV3-48	CAREEGYYDSSGYLTDYW	IGHJ4	CSF	46
57714	100	CSF exclusive	CSF-Naive_618_IGM	IGHV3-74	CAREKYNWQYFDYW	IGHJ4	CSF	16
57714	101	CSF exclusive	CSF-Naive_618_IGM	IGHV1-3	CAREPAGRRPRTYYDSSGGYYGSYFDYW	IGHJ4	CSF	64
57714	102	CSF exclusive	CSF-Naive_618_IGM	IGHV1-2	CARERIDSYSYGMVDVW	IGHJ6	CSF	1
57714	103	CSF exclusive	CSF-Naive_618_IGM	IGHV1-2	CARERIDSYSYGMVDVW	IGHJ6	CSF	117
57714	104	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CARESYGDRYRWSFDYW	IGHJ4	CSF	310
57714	105	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARETGDSGGSYYPDAFDYW	IGHJ4	CSF	555
57714	106	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CAREVWAFDIW	IGHJ3	CSF	265
57714	107	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARFEQLVLVDYW	IGHJ4	CSF	211
57714	108	CSF exclusive	CSF-Naive_618_IGM	IGHV3-53	CARGAGYGDYGYYYGMVDVW	IGHJ6	CSF	67
57714	109	Connecting to PB	CSF-Naive_618_IGM	IGHV4-39	CARGDAYDIW	IGHJ3	CSF	316
57714	109	Connecting to PB	Naive_200000_IGM	IGHV4-39	CARNDAFDIW	IGHJ3	PB	1
57714	109	Connecting to PB	Naive_200000_IGM	IGHV4-39	CARLNAFDIW	IGHJ3	PB	3
57714	109	Connecting to PB	USM_200000_IGM	IGHV4-39	CARSNAFDIW	IGHJ3	PB	3
57714	109	Connecting to PB	DN_87942_IGG	IGHV4-39	CARHVAFDIW	IGHJ3	PB	12
57714	110	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARGERDAFDIW	IGHJ3	CSF	59
57714	111	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARGGCTNGVCVAFDPW	IGHJ5	CSF	35
57714	112	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARGGLVGAGVPFADIW	IGHJ3	CSF	257
57714	113	CSF exclusive	CSF-Naive_618_IGM	IGHV4-28	CARGGQLWLPVPSFGYW	IGHJ4	CSF	200
57714	114	CSF exclusive	CSF-Naive_618_IGM	IGHV6-1	CARGGSYSSGSWFDPW	IGHJ5	CSF	126
57714	115	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARGGTAMRAFDIW	IGHJ3	CSF	73
57714	116	CSF exclusive	CSF-Naive_618_IGM	IGHV1-8	CARGGYGDYWFDPW	IGHJ5	CSF	67
57714	117	CSF exclusive	CSF-Naive_618_IGM	IGHV1-8	CARGHDREYDFWSGYPPYYGMVDVW	IGHJ6	CSF	219
57714	118	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARGIYYDSSGGYPPYYVDCW	IGHJ4	CSF	3
57714	118	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CARGIYYDSSGGYPPYYFDYW	IGHJ4	CSF	319
57714	119	CSF exclusive	CSF-Naive_618_IGM	IGHV1-8	CARGLPQDYSGSMLSYSW	IGHJ4	CSF	421
57714	120	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARGPRGWGMQNTFDIW	IGHJ3	CSF	1
57714	121	Connecting to PB	CSF-Naive_618_IGM	IGHV1-8	CARGQDYGYGMVDVW	IGHJ6	CSF	5
57714	121	Connecting to PB	Naive_200000_IGM	IGHV1-8	CARGRSYYGMVDVW	IGHJ6	PB	1
57714	122	CSF exclusive	CSF-Naive_618_IGM	IGHV4-34	CARGQLLGYCSGSGRRCRRDWFDPW	IGHJ5	CSF	264
57714	123	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CARGRLGTAPPDYW	IGHJ4	CSF	90
57714	124	CSF exclusive	CSF-Naive_618_IGM	IGHV3-48	CARGRRWLETDDYW	IGHJ4	CSF	1
57714	124	CSF exclusive	CSF-Naive_618_IGM	IGHV3-48	CARGRQWLETDDYW	IGHJ4	CSF	167

57714	125	CSF exclusive	CSF-Naive_618_IGM	IGHV3-11	CARGVGATGYW	IGHJ4	CSF	50
57714	126	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARGVGKSSSNFDYW	IGHJ4	CSF	278
57714	127	CSF exclusive	CSF-Naive_618_IGM	IGHV1-3	CARGYSGPDFYFDYW	IGHJ4	CSF	80
57714	128	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARHHAGYSSAWTGTDYW	IGHJ4	CSF	163
57714	129	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARHTVADYDRRGMDVW	IGHJ6	CSF	46
57714	130	CSF exclusive	CSF-Naive_618_IGM	IGHV2-26	CARIGDHADYW	IGHJ4	CSF	249
57714	131	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CARLALSGSYYPYFDYW	IGHJ4	CSF	31
57714	132	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARLGTGGVPTPNYFDYW	IGHJ4	CSF	15
57714	133	Connecting to PB	CSF-Naive_618_IGM	IGHV2-70	CARLTTSWYFDYW	IGHJ4	CSF	60
57714	133	Connecting to PB	USM_200000_IGM	IGHV2-70	CARLTTSWYFDYW	IGHJ4	PB	1
57714	134	CSF exclusive	CSF-Naive_618_IGM	IGHV1-2	CARMRGYDFWSDNPPPYGMDVW	IGHJ6	CSF	137
57714	135	CSF exclusive	CSF-Naive_618_IGM	IGHV3-53	CARMVVLLPAGWDFPW	IGHJ5	CSF	119
57714	136	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARPACSDYEGGWDFPW	IGHJ5	CSF	12
57714	137	CSF exclusive	CSF-Naive_618_IGM	IGHV1-8	CARPDERGYSYGNLW	IGHJ4	CSF	1082
57714	138	CSF exclusive	CSF-Naive_618_IGM	IGHV5-51	CARPSSSWYFDYW	IGHJ4	CSF	70
57714	139	CSF exclusive	CSF-Naive_618_IGM	IGHV1-46	CARPSYKLELGYGMDVW	IGHJ6	CSF	1
57714	140	CSF exclusive	CSF-Naive_618_IGM	IGHV5-51	CARRPSTVTMAYGLEGAFDIW	IGHJ3	CSF	68
57714	141	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARRSSNEVGATQMGAFDIW	IGHJ3	CSF	722
57714	142	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARRVVGDYGDYELDYW	IGHJ4	CSF	1
57714	142	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARRVVGDYGDYGLDYW	IGHJ4	CSF	65
57714	143	CSF exclusive	CSF-Naive_618_IGM	IGHV4-31	CARSAPPQWFPWP	IGHJ5	CSF	444
57714	144	CSF exclusive	CSF-Naive_618_IGM	IGHV4-34	CARSGCGGDCNLFYYYYGMDVW	IGHJ6	CSF	49
57714	145	CSF exclusive	CSF-Naive_618_IGM	IGHV4-31	CARSIAAASNDALDIW	IGHJ3	CSF	1
57714	145	CSF exclusive	CSF-Naive_618_IGM	IGHV4-31	CARSIAAAGNDAFDIW	IGHJ3	CSF	173
57714	146	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CARSNINWFYFDYW	IGHJ4	CSF	129
57714	147	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARSRPDPYYYYGMDVW	IGHJ6	CSF	234
57714	148	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CARVAVAGPISIFDYW	IGHJ4	CSF	147
57714	149	CSF exclusive	CSF-Naive_618_IGM	IGHV3-7	CARVEYLLLLLIYYGMDAW	IGHJ6	CSF	1
57714	149	CSF exclusive	CSF-Naive_618_IGM	IGHV3-7	CARVGYQLLLLIYYGMDAW	IGHJ6	CSF	1
57714	149	CSF exclusive	CSF-Naive_618_IGM	IGHV3-7	CARVEYQLLLLIYYGMDAW	IGHJ6	CSF	4
57714	149	CSF exclusive	CSF-Naive_618_IGM	IGHV3-7	CARVEYQLLLLIYYGMDVW	IGHJ6	CSF	18
57714	150	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CARVGHSSSDYYYGMDVW	IGHJ6	CSF	4
57714	151	CSF exclusive	CSF-Naive_618_IGM	IGHV3-53	CARVKGAFDIW	IGHJ3	CSF	91
57714	152	CSF exclusive	CSF-Naive_618_IGM	IGHV1-18	CARVLLGSSAWDGGYW	IGHJ4	CSF	86
57714	153	CSF exclusive	CSF-Naive_618_IGM	IGHV3-20	CARVSGYDSSGYYGYW	IGHJ4	CSF	19
57714	154	CSF exclusive	CSF-Naive_618_IGM	IGHV4-39	CARYAEGLPFPYW	IGHJ4	CSF	96
57714	155	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CASAGDQLGSRHDYW	IGHJ4	CSF	17
57714	156	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CASDLIVGSDYDSSMLPFDIAFDIW	IGHJ3	CSF	10
57714	157	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CASDLQGPL	IGHJ5	CSF	35
57714	158	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CASDPSPEGGYYPDYW	IGHJ4	CSF	87
57714	159	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CASDPPTSYYYGSGSYFDYW	IGHJ4	CSF	77
57714	160	CSF exclusive	CSF-Naive_618_IGM	IGHV1-2	CASGGYDGSDFDYW	IGHJ4	CSF	881
57714	161	CSF exclusive	CSF-Naive_618_IGM	IGHV4-34	CASGSGGSCYSGRWCAFDIW	IGHJ3	CSF	60
57714	162	CSF exclusive	CSF-Naive_618_IGM	IGHV5-51	CASLPGYGDYFDYW	IGHJ4	CSF	24
57714	163	CSF exclusive	CSF-Naive_618_IGM	IGHV3-53	CASRLYDSSSGYQTDYW	IGHJ4	CSF	26
57714	164	CSF exclusive	CSF-Naive_618_IGM	IGHV4-34	CASSFGLELLYW	IGHJ4	CSF	792
57714	165	CSF exclusive	CSF-Naive_618_IGM	IGHV1-69	CASTGSDILTYWWDYW	IGHJ4	CSF	3
57714	166	CSF exclusive	CSF-Naive_618_IGM	IGHV4-34	CASITLMGFDIW	IGHJ3	CSF	152
57714	167	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CASVTWTDWDFPW	IGHJ5	CSF	161
57714	168	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CASYDSSGYYHW	IGHJ5	CSF	246
57714	169	CSF exclusive	CSF-Naive_618_IGM	IGHV3-21	CATGNDYGDYEDDYW	IGHJ4	CSF	76
57714	170	CSF exclusive	CSF-Naive_618_IGM	IGHV1-8	CATKRREMDVW	IGHJ6	CSF	273
57714	171	Connecting to PB	CSF-Naive_618_IGM	IGHV3-7	CATVIFRGPFDYW	IGHJ4	CSF	55
57714	171	Connecting to PB	USM_200000_IGM	IGHV3-7	CATLIFRGPFDYW	IGHJ4	PB	1
57714	171	Connecting to PB	USM_200000_IGM	IGHV3-7	CATEMFRGPFYDW	IGHJ4	PB	3
57714	171	Connecting to PB	USM_200000_IGM	IGHV3-7	CATVIFRGPFDYW	IGHJ4	PB	13
57714	172	Connecting to PB	CSF-Naive_618_IGM	IGHV2-70	CAWIRRAWEHEDW	IGHJ4	CSF	1
57714	172	Connecting to PB	SM_178484_IGG	IGHV2-70	CAWMRRAWEHEDW	IGHJ4	PB	2
57714	172	Connecting to PB	USM_200000_IGM	IGHV2-70	CAWMRRAWEHEDW	IGHJ4	PB	29
57714	172	Connecting to PB	SM_178484_IGM	IGHV2-70	CAWMRRAWEHEDW	IGHJ4	PB	479
57714	172	Connecting to PB	PC_16850_IGM	IGHV2-70	CAWMRRAWEHEDW	IGHJ4	PB	1725
57714	172	Connecting to PB	PC_16850_IGG	IGHV2-70	CAWMRRAWEHEDW	IGHJ4	PB	4608
57714	173	CSF exclusive	CSF-Naive_618_IGM	IGHV3-23	CESLGYCSGGSCLLAYW	IGHJ4	CSF	46
57714	174	CSF exclusive	CSF-Naive_618_IGM	IGHV3-9	CTKDRLLWPLSHAFDIW	IGHJ3	CSF	3
57714	175	CSF exclusive	CSF-Naive_618_IGM	IGHV3-15	CTPDLLAVRVDYW	IGHJ4	CSF	13
57714	176	CSF exclusive	CSF-Naive_618_IGM	IGHV3-15	CTRIFAGSSYGMDVW	IGHJ6	CSF	43
57714	177	CSF exclusive	CSF-Naive_618_IGM	IGHV3-73	CTRRGDYYYGMDVW	IGHJ6	CSF	57
57714	178	CSF exclusive	CSF-Naive_618_IGM	IGHV3-15	CTTLGRDYDSLIDYW	IGHJ4	CSF	28
57714	179	CSF exclusive	CSF-Naive_618_IGM	IGHV3-53	CVQSGYGGNTFDSW	IGHJ4	CSF	43
57714	180	CSF exclusive	CSF-Naive_618_IGM	IGHV3-30	CVRRERFCSGTCCGMDVW	IGHJ6	CSF	1
57714	181	CSF exclusive	CSF-Naive_618_IGM	IGHV2-70	CVRIQRSSGWNWDFPW	IGHJ5	CSF	112
57714	182	CSF exclusive	CSF-Naive_618_IGM	IGHV4-59	CVRVLTRNNWDFPW	IGHJ5	CSF	25
57714	183	CSF exclusive	CSF-PC_76_IGG	IGHV4-55	CAAGTKSWYILFEYW	IGHJ4	CSF	263
57714	184	Connecting to PB	CSF-PC_76_IGG	IGHV4-55	RAKERAYYGSATHQIWLIDLW	IGHJ2	CSF	2
57714	184	Connecting to PB	CSF-PC_76_IGG	IGHV4-55	CAKERAYYGSATHQIWLIDLW	IGHJ2	CSF	23
57714	184	Connecting to PB	SM_178484_IGG	IGHV4-55	CAKERAYYGSATHQIWLIDLW	IGHJ2	PB	2255
57714	184	Connecting to PB	PC_16850_IGG	IGHV4-55	CAKERAYYGSATHQIWLIDLW	IGHJ2	PB	3621
57714	185	CSF exclusive	CSF-SM_890_IGG	IGHV3-7	CAKLLGHCTNGVCYPPYFDYW	IGHJ4	CSF	6
57714	185	CSF exclusive	CSF-PC_76_IGG	IGHV3-7	CAKILGHCTNGVCYPPYFDYW	IGHJ4	CSF	75
57714	185	CSF exclusive	CSF-PC_76_IGG	IGHV3-7	CAKILGHCTNGVCFPPYFDYW	IGHJ4	CSF	373
57714	185	CSF exclusive	CSF-SM_890_IGG	IGHV3-7	CAKILGHCTNGVCYPPYFDYW	IGHJ4	CSF	560
57714	186	CSF exclusive	CSF-PC_76_IGG	IGHV4-31	CAREAGYNGFVDPW	IGHJ5	CSF	65
57714	187	CSF exclusive	CSF-PC_76_IGG	IGHV4-31	CAREGSEYRYGPPTAW	IGHJ5	CSF	803
57714	188	CSF exclusive	CSF-PC_76_IGG	IGHV2-70	CARETGDRQRYPDFW	IGHJ4	CSF	580
57714	188	CSF exclusive	CSF-SM_890_IGG	IGHV2-70	CARETGDRQRYPDFW	IGHJ4	CSF	1412

57714	189	CSF exclusive	CSF-PC_76_IGG	IGHV3-13	CARFARLEVDGVPVGYGLDVW	IGHJ6	CSF	228
57714	190	CSF exclusive	CSF-PC_76_IGG	IGHV3-7	CARGFSDWQLLPGLFDYW	IGHJ4	CSF	700
57714	190	CSF exclusive	CSF-SM_890_IGG	IGHV3-7	CARGFSDWQLLPGLFDYW	IGHJ4	CSF	4994
57714	191	Connecting to PB	CSF-PC_76_IGG	IGHV1-8	CARGRGYDSSGYWYDDYGMVW	IGHJ6	CSF	1
57714	191	Connecting to PB	PC_16850_IGG	IGHV1-8	CARGRGYDSSGYWYDDYGMVW	IGHJ6	PB	1536
57714	192	Connecting to PB	CSF-PC_76_IGG	IGHV4-59	CARGSIDGNQYGMVW	IGHJ6	CSF	3
57714	192	Connecting to PB	CSF-SM_890_IGG	IGHV4-59	CARGSTDGYNQYGMVW	IGHJ6	CSF	3714
57714	192	Connecting to PB	CSF-PC_76_IGG	IGHV4-59	CARGSTDGYNQYGMVW	IGHJ6	CSF	5998
57714	192	Connecting to PB	PC_16850_IGG	IGHV4-59	CARGSTDGYNQYGMVW	IGHJ6	PB	3
57714	193	CSF exclusive	CSF-PC_76_IGG	IGHV4-39	CARHANLIPSTITGVNYFDYW	IGHJ4	CSF	740
57714	194	CSF exclusive	CSF-PC_76_IGG	IGHV2-70	CARIQRGPYTSGWYHFDYW	IGHJ4	CSF	8
57714	194	CSF exclusive	CSF-SM_890_IGG	IGHV2-70	CARIQRGPYTSGWYHFDYW	IGHJ4	CSF	352
57714	195	CSF exclusive	CSF-PC_76_IGG	IGHV4-39	CARQRDYDSSGSLKPLYFDSW	IGHJ4	CSF	745
57714	196	Connecting to PB	CSF-PC_76_IGG	IGHV1-18	CARVDVYGDYADYW	IGHJ4	CSF	1
57714	196	Connecting to PB	PC_16850_IGM	IGHV1-18	CARVDVYGDYADYW	IGHJ4	PB	6
57714	196	Connecting to PB	PC_16850_IGG	IGHV1-18	CARVDVYGDYADYW	IGHJ4	PB	1598
57714	197	Connecting to PB	CSF-PC_76_IGG	IGHV4-31	CARVTEWQHYFDYW	IGHJ4	CSF	1
57714	197	Connecting to PB	CSF-PC_76_IGG	IGHV4-31	CARVLEWPHYFDYW	IGHJ4	CSF	1893
57714	197	Connecting to PB	CSF-SM_890_IGG	IGHV4-31	CARVLEWPHYFDYW	IGHJ4	CSF	3768
57714	197	Connecting to PB	SM_178484_IGG	IGHV4-31	CARVTEWPHYFDYW	IGHJ4	PB	7
57714	198	CSF exclusive	CSF-PC_76_IGG	IGHV4-31	CARWSEYFDYW	IGHJ4	CSF	1383
57714	199	CSF exclusive	CSF-PC_76_IGG	IGHV6-1	CARWSLDIPLVDSFYDGLDVW	IGHJ6	CSF	961
57714	200	CSF exclusive	CSF-PC_76_IGG	IGHV4-39	CATGPPAGGYWYFDLW	IGHJ2	CSF	1
57714	200	CSF exclusive	CSF-PC_76_IGG	IGHV4-39	CATGPPAGRYWYFDLW	IGHJ2	CSF	39
57714	201	Connecting to PB	CSF-PC_76_IGG	IGHV4-28	CATNTIHETPTYENTGYHYLDHW	IGHJ4	CSF	2485
57714	201	Connecting to PB	CSF-SM_890_IGG	IGHV4-28	CATNTIHETPTYENTGYHYLDHW	IGHJ4	CSF	3953
57714	201	Connecting to PB	SM_178484_IGG	IGHV4-28	CATNTIHESPTYENTGYHYLDHW	IGHJ4	PB	9
57714	202	CSF exclusive	CSF-PC_76_IGG	IGHV4-55	CATSHYSDATDSYHYFANW	IGHJ4	CSF	163
57714	203	CSF exclusive	CSF-PC_76_IGG	IGHV4-39	CSRSYWNVDYRNNPYYFDYW	IGHJ4	CSF	673
57714	204	Connecting to PB	CSF-SM_890_IGG	IGHV2-5	CAHSQYHYDSNWWGYFLHW	IGHJ1	CSF	13168
57714	204	Connecting to PB	SM_178484_IGG	IGHV2-5	CAHSQYDYDSNWWGYFLHW	IGHJ1	PB	63
57714	205	CSF exclusive	CSF-SM_890_IGG	IGHV2-5	CAHVACFSTSCYTNWFDPW	IGHJ5	CSF	32
57714	206	CSF exclusive	CSF-SM_890_IGG	IGHV3-23	CAKALTTVTKSAFDIW	IGHJ3	CSF	16
57714	207	CSF exclusive	CSF-SM_890_IGG	IGHV3-23	CAKDNPSFVVVANSWFDPW	IGHJ5	CSF	3
57714	208	CSF exclusive	CSF-SM_890_IGG	IGHV3-23	CVKDDQVLPAAVVRVAATMSDW	IGHJ5	CSF	3
57714	208	CSF exclusive	CSF-SM_890_IGG	IGHV3-23	CAKDDQVLPAAVVRVAATMSDW	IGHJ5	CSF	9
57714	209	CSF exclusive	CSF-SM_890_IGG	IGHV3-30	CAKEGGELATLRSYAFDIW	IGHJ3	CSF	11
57714	210	CSF exclusive	CSF-SM_890_IGG	IGHV3-48	CALYYYYGSGSPGYW	IGHJ4	CSF	10
57714	211	CSF exclusive	CSF-SM_890_IGG	IGHV3-7	CAMRGLYSTAWYADFW	IGHJ4	CSF	11
57714	212	CSF exclusive	CSF-SM_890_IGG	IGHV4-31	CARARGIQVWLEASGHFDSW	IGHJ4	CSF	44
57714	213	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CARDEKRGWELLRGRDLWL	IGHJ3	CSF	36
57714	214	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CARDPRSIVVVVPAAGFDYW	IGHJ4	CSF	16
57714	215	CSF exclusive	CSF-SM_890_IGG	IGHV6-1	CARDRDDGPTDRFDSW	IGHJ5	CSF	5
57714	215	CSF exclusive	CSF-SM_890_IGG	IGHV6-1	CARDRDDGDLTDRFDSW	IGHJ5	CSF	62
57714	216	CSF exclusive	CSF-SM_890_IGG	IGHV3-53	CARDRPGPTPGTYGMDVW	IGHJ6	CSF	5
57714	217	CSF exclusive	CSF-SM_890_IGG	IGHV4-34	CARDSYGEGIDVW	IGHJ6	CSF	20
57714	218	CSF exclusive	CSF-SM_890_IGG	IGHV3-7	CARDWHSSSRYSWGFLDFW	IGHJ4	CSF	9
57714	219	CSF exclusive	CSF-SM_890_IGG	IGHV4-31	CAREGASQQLLGHFDLW	IGHJ2	CSF	3
57714	220	CSF exclusive	CSF-SM_890_IGG	IGHV3-23	CAREIRIPVAGTVGFDPW	IGHJ5	CSF	3
57714	221	CSF exclusive	CSF-SM_890_IGG	IGHV4-59	CAREKISLAANDYW	IGHJ4	CSF	84
57714	222	CSF exclusive	CSF-SM_890_IGG	IGHV3-7	CAREVDHDFWSGYRPTNWFDPW	IGHJ5	CSF	618
57714	223	CSF exclusive	CSF-SM_890_IGG	IGHV4-59	CAREVYRDPSPFCW	IGHJ4	CSF	6
57714	224	CSF exclusive	CSF-SM_890_IGG	IGHV1-18	CARGGAEIYSGTYVAFDIW	IGHJ3	CSF	36
57714	225	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CARGKTAADIRVKWFDPW	IGHJ5	CSF	12
57714	226	Connecting to PB	CSF-SM_890_IGG	IGHV1-2	CARGLSYTDSNGYTFDIW	IGHJ3	CSF	6
57714	226	Connecting to PB	DN_87942_IGG	IGHV1-2	CARGLSYDDNSGYTFDIW	IGHJ3	PB	31
57714	227	CSF exclusive	CSF-SM_890_IGG	IGHV3-7	CARGPNDYVWTSFRGYDYW	IGHJ4	CSF	10
57714	228	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CARGRISMVGRVISCYLDYW	IGHJ4	CSF	80
57714	229	Connecting to PB	CSF-SM_890_IGG	IGHV1-3	CARGTINPGSSTYWHLDLW	IGHJ2	CSF	2
57714	229	Connecting to PB	PC_16850_IGG	IGHV1-3	CARGTINPGSSTYWHLDLW	IGHJ2	PB	905
57714	230	CSF exclusive	CSF-SM_890_IGG	IGHV4-28	CARHKATRAFDYW	IGHJ4	CSF	4
57714	231	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CARHPTSSRLDSFDVW	IGHJ3	CSF	18
57714	232	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CARHPYTSYDVSQYGGFDYW	IGHJ4	CSF	37
57714	233	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CARHPYTSYDVSQYGGFDYWGQGGFDYW	IGHJ4	CSF	5022
57714	234	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CARLDLATIKNYFDYW	IGHJ4	CSF	1817
57714	235	Connecting to PB	CSF-SM_890_IGG	IGHV4-28	CARLSGGYTYGYTPYHGMVW	IGHJ6	CSF	2816
57714	235	Connecting to PB	DN_87942_IGG	IGHV4-28	CARLSGGCTYGYTPYHGMVW	IGHJ6	PB	1
57714	235	Connecting to PB	DN_87942_IGG	IGHV4-28	CARLSGGYTYGYTPYHGMVW	IGHJ6	PB	14
57714	235	Connecting to PB	SM_178484_IGG	IGHV4-28	CARLSGGYTYGYTPYHGMVW	IGHJ6	PB	15
57714	236	CSF exclusive	CSF-SM_890_IGG	IGHV3-7	CARRDPATIIDLTGYKYW	IGHJ4	CSF	67
57714	237	CSF exclusive	CSF-SM_890_IGG	IGHV5-51	CARREDEFDYW	IGHJ4	CSF	13
57714	238	CSF exclusive	CSF-SM_890_IGG	IGHV4-55	CARRGIVVVAAAVYQDNGMDVW	IGHJ6	CSF	48
57714	239	Connecting to PB	CSF-SM_890_IGG	IGHV1-69	CARVGVQYNTSQKDYDDYMDVW	IGHJ6	CSF	1
57714	239	Connecting to PB	DN_87942_IGG	IGHV1-69	CARVGVQYNTSQKDYDDYMDVW	IGHJ6	PB	14
57714	240	CSF exclusive	CSF-SM_890_IGG	IGHV4-28	CARVRSHLTYGSGSLDYW	IGHJ4	CSF	61
57714	241	Connecting to PB	CSF-SM_890_IGG	IGHV4-39	CARYNGSIAAAGACW	IGHJ4	CSF	14
57714	241	Connecting to PB	SM_178484_IGG	IGHV4-39	CARYNGSIAAAGACW	IGHJ4	PB	9
57714	242	CSF exclusive	CSF-SM_890_IGG	IGHV3-30	CASDRGHCTNGVCYGMVW	IGHJ3	CSF	2
57714	243	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CASGQCTSTSCYTPADHW	IGHJ4	CSF	400
57714	244	Connecting to PB	CSF-SM_890_IGG	IGHV4-39	CASHRGLRPHYLDYW	IGHJ4	CSF	5
57714	244	Connecting to PB	SM_178484_IGG	IGHV4-39	CASHRGLRPHYLDYW	IGHJ4	PB	5
57714	245	CSF exclusive	CSF-SM_890_IGG	IGHV3-53	CASWFPSTSEIW	IGHJ3	CSF	43
57714	246	CSF exclusive	CSF-SM_890_IGG	IGHV4-28	CGRLSGGYTYGYTPCHHGMVW	IGHJ6	CSF	1
57714	247	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CTREGGNGQLLW	IGHJ5	CSF	73
57714	248	CSF exclusive	CSF-SM_890_IGG	IGHV4-39	CTREIVGAMANIDYW	IGHJ4	CSF	4130

57714	249	Connecting to PB	CSF-SM_890_IGG	IGHV3-23	CVKAVEEGIRPHYW	IGHJ4	CSF	25
57714	249	Connecting to PB	USM_200000_IGM	IGHV3-23	CVKAVEEGIRPHFW	IGHJ4	PB	1
57714	249	Connecting to PB	SM_178484_IGG	IGHV3-23	CVKAVEEGIRPHYW	IGHJ4	PB	7
57714	249	Connecting to PB	PC_16850_IGG	IGHV3-23	CVKAVEEGIRPHYW	IGHJ4	PB	123
57714	250	CSF exclusive	CSF-SM_890_IGG	IGHV4-34	CVQSDAYEGCSGGTCHSYFDYW	IGHJ4	CSF	3
57714	251	Connecting to PB	CSF-SM_890_IGG	IGHV3-7	CVRPDSRGYYYPDYW	IGHJ4	CSF	1
57714	251	Connecting to PB	USM_200000_IGM	IGHV3-7	CARPDPSRGYYYPDYW	IGHJ4	PB	1
57714	252	CSF exclusive	CSF-SM_890_IGG	IGHV4-28	CVTLMTNTAMVLFW	IGHJ4	CSF	15
57714	253	CSF exclusive	CSF-USM_999_IGM	IGHV1-58	CAAARSTVTTTRGWFDPW	IGHJ5	CSF	27
57714	253	CSF exclusive	CSF-USM_999_IGM	IGHV1-58	CAAARNVTVTTTRGWFDPW	IGHJ5	CSF	199
57714	254	Connecting to PB	CSF-USM_999_IGM	IGHV3-11	CAGGDSSTYFYHYW	IGHJ4	CSF	19
57714	254	Connecting to PB	USM_200000_IGM	IGHV3-11	CVGGDSSTYFYHYW	IGHJ4	PB	1
57714	254	Connecting to PB	SM_178484_IGM	IGHV3-11	CAGGDSSTYFYHYW	IGHJ4	PB	2
57714	254	Connecting to PB	PC_16850_IGM	IGHV3-11	CAGGDSSTYFYHYW	IGHJ4	PB	83
57714	255	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CAGGDYYDSSGYYKAAFYDLW	IGHJ2	CSF	32
57714	256	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CAGRAERSPYSVW	IGHJ4	CSF	170
57714	257	Connecting to PB	CSF-USM_999_IGM	IGHV4-59	CAGRGSYGPFDIW	IGHJ3	CSF	52
57714	257	Connecting to PB	USM_200000_IGM	IGHV4-59	CAGRGSYGPFDIW	IGHJ3	PB	3
57714	258	CSF exclusive	CSF-USM_999_IGM	IGHV3-38	CAGSITTTGAFDYW	IGHJ4	CSF	21
57714	259	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKDALGEVIIIIYFDYW	IGHJ4	CSF	38
57714	260	CSF exclusive	CSF-USM_999_IGM	IGHV3-30	CAKDGYSWGPLDYW	IGHJ4	CSF	15
57714	261	Connecting to PB	CSF-USM_999_IGM	IGHV3-9	CAKDIGQPADYW	IGHJ4	CSF	70
57714	261	Connecting to PB	USM_200000_IGM	IGHV3-9	CAKDLGQPADHW	IGHJ4	PB	2
57714	261	Connecting to PB	USM_200000_IGM	IGHV3-9	CAKDVGPADYW	IGHJ4	PB	5
57714	261	Connecting to PB	USM_200000_IGM	IGHV3-9	CAKDIGQPADYW	IGHJ4	PB	49
57714	262	CSF exclusive	CSF-USM_999_IGM	IGHV3-9	CAKDISVTTFFYFDYW	IGHJ4	CSF	34
57714	263	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKDLLAPAPRYYYYYFGMDVW	IGHJ6	CSF	8
57714	264	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKDLTTSSEIDFW	IGHJ4	CSF	34
57714	265	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKDPNSTPNYYGLDVW	IGHJ6	CSF	2
57714	266	Connecting to PB	CSF-USM_999_IGM	IGHV3-30	CAKDWRRHSPDYGMNVW	IGHJ6	CSF	13
57714	266	Connecting to PB	USM_200000_IGM	IGHV3-30	CAKDWRRHSPDYGMNVW	IGHJ6	PB	4
57714	267	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKDYLDSSGYLGSFDYW	IGHJ4	CSF	6
57714	268	CSF exclusive	CSF-USM_999_IGM	IGHV4-59	CAKEARTAVAESGYW	IGHJ4	CSF	34
57714	269	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKEGAVAGIGYFQHW	IGHJ1	CSF	56
57714	270	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKELGGAPRFGAYW	IGHJ4	CSF	18
57714	271	Connecting to PB	CSF-USM_999_IGM	IGHV3-9	CAKEVRNKGILDYW	IGHJ4	CSF	78
57714	271	Connecting to PB	USM_200000_IGM	IGHV3-9	CAKEVRNKGILDYW	IGHJ4	PB	1
57714	271	Connecting to PB	USM_200000_IGM	IGHV3-9	CAKEVRNKGILDYW	IGHJ4	PB	3
57714	271	Connecting to PB	SM_178484_IGM	IGHV3-9	CAKEVRNKGILDYW	IGHJ4	PB	4
57714	271	Connecting to PB	PC_16850_IGM	IGHV3-9	CAKEVRNKGILDYW	IGHJ4	PB	80
57714	272	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKGFYESGSSTTNLDYW	IGHJ4	CSF	9
57714	273	CSF exclusive	CSF-USM_999_IGM	IGHV3-9	CAKGGTTSAYAMDYW	IGHJ6	CSF	46
57714	274	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKGLGAYCDGDCRSRILDFW	IGHJ4	CSF	2
57714	275	Connecting to PB	CSF-USM_999_IGM	IGHV3-23	CAKLVTYDYW	IGHJ4	CSF	60
57714	275	Connecting to PB	USM_200000_IGM	IGHV3-23	CAKVVTYDYW	IGHJ4	PB	2
57714	276	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKTYYYDSRGYFQYFDHW	IGHJ4	CSF	10
57714	277	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CAKVRPGLTSDFFDYW	IGHJ4	CSF	58
57714	278	Connecting to PB	CSF-USM_999_IGM	IGHV4-55	CALSSGWYKIDYW	IGHJ4	CSF	298
57714	278	Connecting to PB	PC_16850_IGM	IGHV4-55	CALSSGWYKIDYW	IGHJ4	PB	1
57714	279	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CAMPFVAATQSGRYW	IGHJ4	CSF	11
57714	280	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CANARVGYW	IGHJ4	CSF	167
57714	281	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CANGRQIWAHFDYW	IGHJ4	CSF	45
57714	282	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CANSAGAPGNYW	IGHJ4	CSF	53
57714	283	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARADTAVAGTIDYW	IGHJ4	CSF	23
57714	284	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CARAEDRDTSGYFGALDMW	IGHJ3	CSF	78
57714	285	Connecting to PB	CSF-USM_999_IGM	IGHV4-59	CARAKGDDW	IGHJ4	CSF	227
57714	285	Connecting to PB	USM_200000_IGM	IGHV4-59	CARAKDDW	IGHJ4	PB	1
57714	285	Connecting to PB	USM_200000_IGM	IGHV4-59	CARGKDDW	IGHJ4	PB	3
57714	285	Connecting to PB	SM_178484_IGM	IGHV4-59	CARAKGDDW	IGHJ4	PB	10
57714	285	Connecting to PB	USM_200000_IGM	IGHV4-59	CVRAKGDDW	IGHJ4	PB	17
57714	285	Connecting to PB	SM_178484_IGG	IGHV4-59	CARAKGDDW	IGHJ4	PB	34
57714	285	Connecting to PB	USM_200000_IGM	IGHV4-59	CARAKGDDW	IGHJ4	PB	110
57714	286	CSF exclusive	CSF-USM_999_IGM	IGHV3-11	CARARWERQSSRFDYW	IGHJ4	CSF	11
57714	287	Connecting to PB	CSF-USM_999_IGM	IGHV4-34	CARASAIHSDTSEGLDYW	IGHJ4	CSF	15
57714	287	Connecting to PB	USM_200000_IGM	IGHV4-34	CARASAIHSDTSEGLDYW	IGHJ4	PB	2
57714	288	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CARATGWSGYDSW	IGHJ4	CSF	52
57714	289	CSF exclusive	CSF-USM_999_IGM	IGHV3-48	CARDNNWGFYD	IGHJ4	CSF	61
57714	290	Connecting to PB	CSF-USM_999_IGM	IGHV1-18	CARDGALGTSDYYGMDVW	IGHJ6	CSF	1
57714	290	Connecting to PB	SM_178484_IGM	IGHV1-18	CARDGALGTSDYYGMDVW	IGHJ6	PB	125
57714	291	Connecting to PB	CSF-USM_999_IGM	IGHV1-8	CARDGKDVGTGLADSW	IGHJ5	CSF	285
57714	291	Connecting to PB	Naive_200000_IGM	IGHV1-8	CVRDGKDVGTGLADSW	IGHJ5	PB	4
57714	291	Connecting to PB	USM_200000_IGM	IGHV1-8	CARDGKDVGTGLVDSW	IGHJ5	PB	11
57714	291	Connecting to PB	USM_200000_IGM	IGHV1-8	CVRDGKDVGTGLADSW	IGHJ5	PB	27
57714	292	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CARDGLGEVAERAASGMDVW	IGHJ6	CSF	26
57714	293	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARDGRPYGMDVW	IGHJ6	CSF	86
57714	294	CSF exclusive	CSF-USM_999_IGM	IGHV3-66	CARDGWLDYW	IGHJ4	CSF	12
57714	295	CSF exclusive	CSF-USM_999_IGM	IGHV3-21	CARDKYGDYVRTPW	IGHJ5	CSF	29
57714	296	Connecting to PB	CSF-USM_999_IGM	IGHV3-48	CARDLGSGRPLPDYW	IGHJ4	CSF	130
57714	296	Connecting to PB	USM_200000_IGM	IGHV3-48	CARDLGSGRPLPDYW	IGHJ4	PB	6
57714	297	CSF exclusive	CSF-USM_999_IGM	IGHV3-21	CARDMAAADGDYGFDIW	IGHJ3	CSF	1
57714	298	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARDPGGSGVPAGWLDPW	IGHJ5	CSF	26
57714	298	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARDPGGSRVTAGWLDPW	IGHJ5	CSF	33
57714	299	Connecting to PB	CSF-USM_999_IGM	IGHV4-59	CARDPWGLESFADYD	IGHJ3	CSF	150
57714	299	Connecting to PB	Naive_200000_IGM	IGHV4-59	CARDPWGLESFADYD	IGHJ3	PB	2
57714	299	Connecting to PB	USM_200000_IGM	IGHV4-59	CARDPWGLESFADYD	IGHJ3	PB	79



57714	300	CSF exclusive	CSF-USM_999_IGM	IGHV3-48	CARDRPVAAADYW	IGHJ4	CSF	31
57714	301	CSF exclusive	CSF-USM_999_IGM	IGHV4-59	CARDRVTVTTETHYYGRHV	IGHJ6	CSF	2
57714	301	CSF exclusive	CSF-USM_999_IGM	IGHV4-59	CARDRVTVTTETHYYGMHV	IGHJ6	CSF	57
57714	302	CSF exclusive	CSF-USM_999_IGM	IGHV4-34	CARDSSGSHPGIW	IGHJ5	CSF	198
57714	303	CSF exclusive	CSF-USM_999_IGM	IGHV1-18	CARDSSQAAGKVDLW	IGHJ5	CSF	30
57714	304	CSF exclusive	CSF-USM_999_IGM	IGHV1-69	CARDTLGSSGPNFQHW	IGHJ1	CSF	52
57714	305	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARDTMGLQSW	IGHJ5	CSF	4
57714	306	CSF exclusive	CSF-USM_999_IGM	IGHV1-3	CARDWYCSGGSCYGAVAFDIW	IGHJ3	CSF	59
57714	307	CSF exclusive	CSF-USM_999_IGM	IGHV3-48	CAREGEWWSYGTNYGMDVW	IGHJ6	CSF	18
57714	308	Connecting to PB	CSF-USM_999_IGM	IGHV1-18	CAREGGYNWNYEPPDYW	IGHJ4	CSF	104
57714	308	Connecting to PB	SM_178484_IGM	IGHV1-18	CAREGGYNWNYEPPDYW	IGHJ4	PB	74
57714	309	Connecting to PB	CSF-USM_999_IGM	IGHV3-21	CAREGGYDSSGYLLRTDAFDIW	IGHJ3	CSF	68
57714	309	Connecting to PB	DN_87942_IGG	IGHV3-21	CVREGGYDSSGYLLRTDGFDIW	IGHJ3	PB	1
57714	309	Connecting to PB	DN_87942_IGG	IGHV3-21	CAREGGYDSSGYLLRTDGFDIW	IGHJ3	PB	12
57714	309	Connecting to PB	USM_200000_IGM	IGHV3-21	CAREGGYDSSGYLLRTDAFDIW	IGHJ3	PB	25
57714	310	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CAREGVPAAARYW	IGHJ4	CSF	1
57714	310	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CAREGVPAAARDYW	IGHJ4	CSF	18
57714	311	Connecting to PB	CSF-USM_999_IGM	IGHV1-3	CAREHDFWSHYSFDYW	IGHJ4	CSF	245
57714	311	Connecting to PB	USM_200000_IGM	IGHV1-3	CAREHDSWSGYSFDYW	IGHJ4	PB	2
57714	311	Connecting to PB	PC_16850_IGM	IGHV1-3	CAREHDFWSGYPFDYW	IGHJ4	PB	364
57714	312	CSF exclusive	CSF-USM_999_IGM	IGHV3-21	CARELVGAVARVDFW	IGHJ4	CSF	3
57714	313	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CAREVNAFDIW	IGHJ3	CSF	81
57714	314	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CARFTSGQGYDSSGYHITDRWYLDYW	IGHJ4	CSF	45
57714	315	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CARGEIYYDSSGYDLDLDPW	IGHJ5	CSF	21
57714	316	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CARGDGTQEYYGYGMDVW	IGHJ6	CSF	4
57714	317	CSF exclusive	CSF-USM_999_IGM	IGHV3-48	CARGGGYSGYDW	IGHJ5	CSF	67
57714	318	Connecting to PB	CSF-USM_999_IGM	IGHV4-34	CARGSSWYRDYW	IGHJ4	CSF	300
57714	318	Connecting to PB	USM_200000_IGM	IGHV4-34	CARGSSWYRDYW	IGHJ4	PB	51
57714	319	Connecting to PB	CSF-USM_999_IGM	IGHV3-30	CARGGYRTTTSYGMVDW	IGHJ6	CSF	36
57714	319	Connecting to PB	SM_178484_IGM	IGHV3-30	CARGGYMTTTSYGMVDW	IGHJ6	PB	119
57714	320	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CARGGYRSEGFDIW	IGHJ3	CSF	56
57714	321	CSF exclusive	CSF-USM_999_IGM	IGHV3-21	CARGLGYSGGRCYWFYDLW	IGHJ2	CSF	65
57714	322	CSF exclusive	CSF-USM_999_IGM	IGHV3-13	CARGLLWFESFYGMDVW	IGHJ6	CSF	21
57714	323	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARGPNCGGTCGAFDIW	IGHJ3	CSF	28
57714	324	Connecting to PB	CSF-USM_999_IGM	IGHV6-1	CARGPPGGSMDVW	IGHJ6	CSF	121
57714	324	Connecting to PB	PC_16850_IGM	IGHV6-1	CARGPPGGSMDVW	IGHJ6	PB	1
57714	325	Connecting to PB	CSF-USM_999_IGM	IGHV4-59	CARGPTVTTDYW	IGHJ4	CSF	229
57714	325	Connecting to PB	USM_200000_IGM	IGHV4-59	CARGPTVTTDFW	IGHJ4	PB	1
57714	325	Connecting to PB	USM_200000_IGM	IGHV4-59	CARGPTVTTDCW	IGHJ4	PB	8
57714	325	Connecting to PB	SM_178484_IGM	IGHV4-59	CARGPTVTTDYW	IGHJ4	PB	78
57714	326	CSF exclusive	CSF-USM_999_IGM	IGHV4-28	CARGQAVGATYYAMVDW	IGHJ6	CSF	37
57714	327	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CARGRGNPNW	IGHJ4	CSF	155
57714	328	Connecting to PB	CSF-USM_999_IGM	IGHV1-2	CARGRYSSGDFQHW	IGHJ1	CSF	514
57714	328	Connecting to PB	SM_178484_IGG	IGHV1-2	CARGRYSSGDFQHW	IGHJ1	PB	1
57714	329	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARGSSRYCSGGNCYLDLDFW	IGHJ4	CSF	19
57714	329	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARGSSRYCSGGNCYLDLDFW	IGHJ4	CSF	250
57714	330	CSF exclusive	CSF-USM_999_IGM	IGHV1-3	CARGSSSRGYRWFDPW	IGHJ5	CSF	377
57714	331	CSF exclusive	CSF-USM_999_IGM	IGHV4-59	CARGYDVTSTF	IGHJ5	CSF	81
57714	332	Connecting to PB	CSF-USM_999_IGM	IGHV4-34	CARHGGFPQYW	IGHJ1	CSF	162
57714	332	Connecting to PB	USM_200000_IGM	IGHV4-34	CARHGGFPQHW	IGHJ1	PB	6
57714	332	Connecting to PB	USM_200000_IGM	IGHV4-34	CARHGGFPQYW	IGHJ1	PB	12
57714	333	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CARHIMAVTEYYYGIDVW	IGHJ6	CSF	11
57714	334	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CARHKGVVVAATPSLGYYYGMDVW	IGHJ6	CSF	17
57714	335	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CARHQSTYNYGLDAFDIW	IGHJ3	CSF	122
57714	336	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CARHQSTATTFDSW	IGHJ4	CSF	3
57714	337	Connecting to PB	CSF-USM_999_IGM	IGHV2-26	CARILPDEGNWFDPW	IGHJ5	CSF	432
57714	337	Connecting to PB	SM_178484_IGG	IGHV2-26	CARILPDEGNWFDPW	IGHJ5	PB	1
57714	338	CSF exclusive	CSF-USM_999_IGM	IGHV4-34	CARIPDSDPFGWFDSW	IGHJ5	CSF	70
57714	339	CSF exclusive	CSF-USM_999_IGM	IGHV4-34	CARKDYSSGHLDLDFW	IGHJ4	CSF	1
57714	339	CSF exclusive	CSF-USM_999_IGM	IGHV4-34	CARKDYSSGHFDLDFW	IGHJ4	CSF	15
57714	340	Connecting to PB	CSF-USM_999_IGM	IGHV6-1	CARLEPGDSSGHSFDYW	IGHJ4	CSF	4
57714	340	Connecting to PB	USM_200000_IGM	IGHV6-1	SARLEPGDSSGHSSDYW	IGHJ4	PB	1
57714	340	Connecting to PB	USM_200000_IGM	IGHV6-1	CARLEPGDSSGHSSDYW	IGHJ4	PB	8
57714	340	Connecting to PB	USM_200000_IGM	IGHV6-1	CARLEPGDSSGHSFDYW	IGHJ4	PB	26
57714	340	Connecting to PB	USM_200000_IGM	IGHV6-1	CARLEPGDSSGHSSDSW	IGHJ4	PB	50
57714	341	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CARLGGSGSYYYW	IGHJ4	CSF	55
57714	342	Connecting to PB	CSF-USM_999_IGM	IGHV1-8	CARLGYCTTRCNWFDPW	IGHJ5	CSF	322
57714	342	Connecting to PB	USM_200000_IGM	IGHV1-8	CARLGYCTTRCNWFDPW	IGHJ5	PB	5
57714	343	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CARLMGSSWVDYW	IGHJ4	CSF	70
57714	344	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CARLRWNSSPFDYW	IGHJ4	CSF	67
57714	345	CSF exclusive	CSF-USM_999_IGM	IGHV4-59	CARLVAGEGPDYW	IGHJ4	CSF	11
57714	346	Connecting to PB	CSF-USM_999_IGM	IGHV1-69	CARLYDSSGSPSYFYW	IGHJ4	CSF	321
57714	346	Connecting to PB	SM_178484_IGM	IGHV1-69	CARVYDSSGSLSYFYW	IGHJ4	PB	2
57714	346	Connecting to PB	USM_200000_IGM	IGHV1-69	CARVYHTSGSPSYFYW	IGHJ4	PB	18
57714	346	Connecting to PB	USM_200000_IGM	IGHV1-69	CARVYDTIGSPSYFYW	IGHJ4	PB	59
57714	346	Connecting to PB	SM_178484_IGM	IGHV1-69	CARLYDSSGSPSYFYW	IGHJ4	PB	79
57714	346	Connecting to PB	USM_200000_IGM	IGHV1-69	CARVYDSSGSPSYFYW	IGHJ4	PB	282
57714	346	Connecting to PB	USM_200000_IGM	IGHV1-69	CARLYDSSGSPSYFYW	IGHJ4	PB	287
57714	346	Connecting to PB	USM_200000_IGM	IGHV1-69	CARVYDSSGSPSYFYW	IGHJ4	PB	493
57714	347	Connecting to PB	CSF-USM_999_IGM	IGHV4-39	CARQSYEDSYW	IGHJ4	CSF	52
57714	347	Connecting to PB	USM_200000_IGM	IGHV4-39	CARQSYEDCYW	IGHJ4	PB	1
57714	347	Connecting to PB	Naive_200000_IGM	IGHV4-39	CARQSYNDFYW	IGHJ4	PB	3
57714	347	Connecting to PB	USM_200000_IGM	IGHV4-39	CARQSYEDSYW	IGHJ4	PB	21
57714	347	Connecting to PB	USM_200000_IGM	IGHV4-39	CARQSYNDFYW	IGHJ4	PB	40
57714	348	CSF exclusive	CSF-USM_999_IGM	IGHV3-11	CARRGRADYW	IGHJ4	CSF	15

57714	348	CSF exclusive	CSF-USM_999_IGM	IGHV3-11	CARRGRVDYW	IGHJ4	CSF	56
57714	349	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CARRRGSYHLDYW	IGHJ4	CSF	41
57714	350	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CARSAPFDIW	IGHJ3	CSF	219
57714	351	CSF exclusive	CSF-USM_999_IGM	IGHV4-34	CARSAGRNRGFDYW	IGHJ4	CSF	112
57714	352	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CARSRGYNALDSW	IGHJ5	CSF	36
57714	353	Connecting to PB	CSF-USM_999_IGM	IGHV2-26	CARTPFAW	IGHJ6	CSF	1083
57714	353	Connecting to PB	SM_178484_IGM	IGHV2-26	CARTPFAW	IGHJ6	PB	1
57714	354	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CARVADSSSGWYHFDYW	IGHJ4	CSF	11
57714	355	CSF exclusive	CSF-USM_999_IGM	IGHV3-21	CARVFNQLLWHGMDVW	IGHJ6	CSF	7
57714	356	CSF exclusive	CSF-USM_999_IGM	IGHV4-59	CARVGLWELPGDERNDAIDIW	IGHJ3	CSF	131
57714	357	Connecting to PB	CSF-USM_999_IGM	IGHV4-59	CARVPAAGTGPDIW	IGHJ4	CSF	54
57714	357	Connecting to PB	USM_200000_IGM	IGHV4-59	CARVPAAGTGPDIW	IGHJ4	PB	8
57714	358	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CARVSYGYDVFVYW	IGHJ4	CSF	8
57714	359	CSF exclusive	CSF-USM_999_IGM	IGHV1-8	CARVWGFAPDFW	IGHJ5	CSF	92
57714	360	CSF exclusive	CSF-USM_999_IGM	IGHV3-30	CASDRGHCTNDVCYGMVW	IGHJ6	CSF	22
57714	360	CSF exclusive	CSF-USM_999_IGM	IGHV3-30	CASDRGHCTNGVCYGMVW	IGHJ6	CSF	22
57714	361	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CASDWNDVDQNAFDIW	IGHJ3	CSF	11
57714	362	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CASEWELPDHVDLW	IGHJ4	CSF	38
57714	363	CSF exclusive	CSF-USM_999_IGM	IGHV3-48	RASKLIAEAHGGFW	IGHJ4	CSF	12
57714	363	CSF exclusive	CSF-USM_999_IGM	IGHV3-48	CASKLIAEAHGGYW	IGHJ4	CSF	85
57714	364	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CASPGTYDSSGTRRLDIW	IGHJ3	CSF	23
57714	365	CSF exclusive	CSF-USM_999_IGM	IGHV1-2	CASSGTRIEAGTWDYFDYW	IGHJ4	CSF	2397
57714	366	Connecting to PB	CSF-USM_999_IGM	IGHV3-48	CASSGWSSGYSYFDDW	IGHJ4	CSF	66
57714	366	Connecting to PB	USM_200000_IGM	IGHV3-48	CASSGWSSGYSYFDDW	IGHJ4	PB	14
57714	367	Connecting to PB	CSF-USM_999_IGM	IGHV3-11	CASVAYSSVDRW	IGHJ5	CSF	1
57714	367	Connecting to PB	SM_178484_IGG	IGHV3-11	CASVAYSSVDPW	IGHJ5	PB	1
57714	367	Connecting to PB	SM_178484_IGG	IGHV3-11	CASVAYSSVDRW	IGHJ5	PB	1
57714	367	Connecting to PB	PC_16850_IGM	IGHV3-11	CASVAYSSVDRW	IGHJ5	PB	68
57714	367	Connecting to PB	SM_178484_IGM	IGHV3-11	CASVAYSSVDRW	IGHJ5	PB	341
57714	368	CSF exclusive	CSF-USM_999_IGM	IGHV4-28	CATSTAAQCLIDSW	IGHJ4	CSF	27
57714	369	CSF exclusive	CSF-USM_999_IGM	IGHV3-30	CAVLNYDFWSGSPSSGLDYW	IGHJ4	CSF	65
57714	370	CSF exclusive	CSF-USM_999_IGM	IGHV5-51	CGRLGSSWSYPEYW	IGHJ4	CSF	11
57714	371	CSF exclusive	CSF-USM_999_IGM	IGHV2-5	CGYTLTAVPAAYGYW	IGHJ4	CSF	197
57714	372	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CSGGPNAYFDCW	IGHJ4	CSF	5
57714	373	CSF exclusive	CSF-USM_999_IGM	IGHV2-5	CSHGTDSDHYW	IGHJ4	CSF	3
57714	374	Connecting to PB	CSF-USM_999_IGM	IGHV3-15	CSKEVGGTGSYYYGMDVW	IGHJ6	CSF	47
57714	374	Connecting to PB	Naive_200000_IGM	IGHV3-15	CSKEVGATGSYYYGMDVW	IGHJ6	PB	1
57714	374	Connecting to PB	USM_200000_IGM	IGHV3-15	CAREVGATGSYYYGMDVW	IGHJ6	PB	8
57714	374	Connecting to PB	USM_200000_IGM	IGHV3-15	CSKEVGATGSYYYGMDVW	IGHJ6	PB	8
57714	374	Connecting to PB	PC_16850_IGM	IGHV3-15	CSREVGATGSYYYGMDVW	IGHJ6	PB	22
57714	374	Connecting to PB	PC_16850_IGM	IGHV3-15	CTKEVGATNSYYYGMDVW	IGHJ6	PB	23
57714	375	Connecting to PB	CSF-USM_999_IGM	IGHV3-15	CTIGDGWNPBW	IGHJ4	CSF	7
57714	375	Connecting to PB	SM_178484_IGM	IGHV3-15	CTTGDGWNPDW	IGHJ4	PB	2
57714	375	Connecting to PB	USM_200000_IGM	IGHV3-15	CTIGDGWNPBW	IGHJ4	PB	12
57714	376	CSF exclusive	CSF-USM_999_IGM	IGHV3-30	CTKDYRTEGSSSQSW	IGHJ5	CSF	19
57714	377	CSF exclusive	CSF-USM_999_IGM	IGHV3-9	CTKGSDDCTNGDCLASSW	IGHJ5	CSF	5
57714	378	Connecting to PB	CSF-USM_999_IGM	IGHV6-1	CTRGATWNHDCW	IGHJ4	CSF	11
57714	378	Connecting to PB	USM_200000_IGM	IGHV6-1	CTRGATWNFDYW	IGHJ4	PB	7
57714	379	CSF exclusive	CSF-USM_999_IGM	IGHV1-8	CTRGAYNSNGYHDFW	IGHJ4	CSF	84
57714	380	CSF exclusive	CSF-USM_999_IGM	IGHV3-53	CTRGPTNPFDW	IGHJ4	CSF	80
57714	381	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CTRMSLGPVDCW	IGHJ4	CSF	23
57714	382	Connecting to PB	CSF-USM_999_IGM	IGHV3-15	CTTEFCSGGSCYSYDW	IGHJ4	CSF	22
57714	382	Connecting to PB	USM_200000_IGM	IGHV3-15	CTTEFCSGGSCYSYDW	IGHJ4	PB	10
57714	383	CSF exclusive	CSF-USM_999_IGM	IGHV3-15	CTTGRRLPDYRDNDYW	IGHJ4	CSF	1
57714	383	CSF exclusive	CSF-USM_999_IGM	IGHV3-15	CTTERRGLPDYRDNDYW	IGHJ4	CSF	11
57714	384	CSF exclusive	CSF-USM_999_IGM	IGHV3-15	CTTESRQRGYSYGNNDYW	IGHJ4	CSF	33
57714	385	CSF exclusive	CSF-USM_999_IGM	IGHV3-15	CTYHTPDSSVIFDYW	IGHJ4	CSF	20
57714	386	Connecting to PB	CSF-USM_999_IGM	IGHV3-9	CVKDQYSSLGYYYGMDVW	IGHJ6	CSF	3
57714	386	Connecting to PB	SM_178484_IGG	IGHV3-9	CVKDQYSSLGYYYGMDVW	IGHJ6	PB	5
57714	387	CSF exclusive	CSF-USM_999_IGM	IGHV3-23	CVKEGLDCSAGSCYTWNWDFPW	IGHJ5	CSF	14
57714	388	CSF exclusive	CSF-USM_999_IGM	IGHV3-30	CVKKEFDYW	IGHJ4	CSF	98
57714	389	CSF exclusive	CSF-USM_999_IGM	IGHV3-11	CVRDNRENMYMESW	IGHJ4	CSF	112
57714	390	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CVRDPAYSAPDIW	IGHJ4	CSF	23
57714	391	Connecting to PB	CSF-USM_999_IGM	IGHV3-48	CVRDPHALDYW	IGHJ4	CSF	35
57714	391	Connecting to PB	SM_178484_IGG	IGHV3-48	CTRDPHALDYW	IGHJ4	PB	2
57714	391	Connecting to PB	USM_200000_IGM	IGHV3-48	CTRDPHALDFW	IGHJ4	PB	3
57714	391	Connecting to PB	USM_200000_IGM	IGHV3-48	CTRDPHALDYW	IGHJ4	PB	4
57714	392	CSF exclusive	CSF-USM_999_IGM	IGHV3-74	CVRGGDVSARWYFDYW	IGHJ4	CSF	23
57714	393	CSF exclusive	CSF-USM_999_IGM	IGHV3-7	CVRGGYGGNWSRNW	IGHJ4	CSF	5
57714	394	Connecting to PB	CSF-USM_999_IGM	IGHV4-39	CVRGYWGGICHCPGEW	IGHJ4	CSF	170
57714	394	Connecting to PB	SM_178484_IGM	IGHV4-39	CVRGYWGGICHCPGEW	IGHJ4	PB	61
57714	395	CSF exclusive	CSF-USM_999_IGM	IGHV3-11	CVRLPHPIANYYSGLDWW	IGHJ6	CSF	34
57714	396	CSF exclusive	CSF-USM_999_IGM	IGHV4-39	CVRLRREGGWYYW	IGHJ4	CSF	1
57714	397	Connecting to PB	CSF-USM_999_IGM	IGHV4-34	CVRVTRDDVDFDLW	IGHJ2	CSF	172
57714	397	Connecting to PB	USM_200000_IGM	IGHV4-34	CVRVSPDEVDFDLW	IGHJ2	PB	1
57714	397	Connecting to PB	PC_16850_IGG	IGHV4-34	CVRVTPDDVDFDLW	IGHJ2	PB	2
57714	397	Connecting to PB	PC_16850_IGM	IGHV4-34	CVGVTTPDDADFDLW	IGHJ2	PB	3
57714	397	Connecting to PB	SM_178484_IGG	IGHV4-34	CVRVTPNDVDFDLW	IGHJ2	PB	12
57714	397	Connecting to PB	USM_200000_IGM	IGHV4-34	CVKVTTPDDVDFDLW	IGHJ2	PB	51
57714	397	Connecting to PB	PC_16850_IGM	IGHV4-34	CVRVTPDDVDFDVW	IGHJ2	PB	99
57714	397	Connecting to PB	PC_16850_IGM	IGHV4-34	CVRVSPDEVDFDLW	IGHJ2	PB	102
57714	397	Connecting to PB	PC_16850_IGM	IGHV4-34	CVKVTTPDDVDFDLW	IGHJ2	PB	143
57714	397	Connecting to PB	USM_200000_IGM	IGHV4-34	CVRVTPDDVDFDLW	IGHJ2	PB	322
57714	397	Connecting to PB	SM_178484_IGM	IGHV4-34	CVRVTPDDVDFDLW	IGHJ2	PB	726
57714	397	Connecting to PB	PC_16850_IGM	IGHV4-34	CVRVTPDDVDFDLW	IGHJ2	PB	919

57714	398	Connecting to PB	CSF-USM_999_IgM	IGHV1-3	CWHSYNSRSRSGMDVW	IGHJ6	CSF	233
57714	398	Connecting to PB	USM_200000_IgM	IGHV1-3	CWHSYNSRSRSGMDVW	IGHJ6	PB	11
57714	399	CSF exclusive	CSF-USM_999_IgM	IGHV2-5	YGHRRQSSYDYHGVDVW	IGHJ6	CSF	17
64215	1	CSF exclusive	CSF_SM_31_BCR_IgG	IGHV4-31	CARARLDKAYSGDSYYGLDVG	IGHJ6	CSF	253
64215	2	CSF exclusive	CSF_SM_31_BCR_IgG	IGHV3-53	CARDPGYTYGQYYYYYGMVDVW	IGHJ6	CSF	56
64215	3	Connecting to PB	CSF_SM_31_BCR_IgG	IGHV3-53	CARDPGYTYGQYYYYYGMVDVW	IGHJ6	CSF	7008
64215	3	Connecting to PB	PB_DN_29829_BCR_IgG	IGHV3-53	CARDPGYTYGQYYYYYGMVDVW	IGHJ6	PB	1
64215	4	CSF exclusive	CSF_SM_31_BCR_IgG	IGHV3-53	CARDPGYTYGQYYYYYGMVDVW	IGHJ6	CSF	63
64215	5	CSF exclusive	CSF_SM_31_BCR_IgG	IGHV3-30	CARGASHCGGDCFWAPPDSW	IGHJ4	CSF	3973
64215	6	CSF exclusive	CSF_SM_31_BCR_IgG	IGHV4-39	CARLEENAYYDSSGGLLEVFDSW	IGHJ4	CSF	23
64215	7	CSF exclusive	CSF_SM_31_BCR_IgG	IGHV4-31	CARYSDYDLNLDYW	IGHJ4	CSF	2014
64215	8	CSF exclusive	CSF_SM_31_BCR_IgG	IGHV3-7	CASAGCFGELFSSW	IGHJ5	CSF	639
64215	9	CSF exclusive	CSF_SM_31_BCR_IgG	IGHV3-7	CASAGYFGELEFSSW	IGHJ4	CSF	11459
64215	10	Connecting to PB	CSF_SM_31_BCR_IgG	IGHV5-51	CVLAHLAHDVDFDVW	IGHJ3	CSF	1
64215	10	Connecting to PB	PB_PC_2347_BCR_IgG	IGHV5-51	CVLAHLAHDVDFDVW	IGHJ3	PB	1309
64215	11	CSF exclusive	CSF_SM_31_BCR_IgM	IGHV4-39	CARHSSPGYYDSSGYPRNYFDSW	IGHJ4	CSF	11173
64215	12	CSF exclusive	CSF_SM_31_BCR_IgM	IGHV4-39	CARSKDTYYDTSGYYTFDYW	IGHJ4	CSF	21
64215	12	CSF exclusive	CSF_USM_20_BCR_IgM	IGHV4-39	CARSKDTYYDTSGYYTFDYW	IGHJ4	CSF	21597
64215	13	CSF exclusive	CSF_SM_31_BCR_IgM	IGHV4-34	CARVSYRDTARSGFDYW	IGHJ4	CSF	1
64215	14	CSF exclusive	CSF_SM_31_BCR_IgM	IGHV3-53	CGRGERGSDYGDYWYFDFLW	IGHJ2	CSF	850
64215	15	CSF exclusive	CSF_USM_20_BCR_IgM	IGHV4-28	CARGSGYYGSGSSHNNNDGLDNW	IGHJ4	CSF	2356
64215	16	CSF exclusive	CSF_USM_20_BCR_IgM	IGHV3-11	CARTGSGGYHYW	IGHJ4	CSF	1714
64215	17	CSF exclusive	CSF_USM_20_BCR_IgM	IGHV3-53	CATDGGSGTYDQIFAFYYYYGMVDVW	IGHJ6	CSF	1338
64215	18	CSF exclusive	CSF_USM_20_BCR_IgM	IGHV3-15	CTTDFVGDYGGYW	IGHJ4	CSF	1
64215	19	CSF exclusive	CSF_USM_20_BCR_IgM	IGHV1-2	CVKETQAIYYDNTTEFYFDYW	IGHJ4	CSF	20