SUPPLEMENT

In the main text, we showed the differences between maternal and fetal repertoires in term pregnancies. The numbers of TCR-β reads, IgH reads, and isotype reads per sample are recorded in Table S1. The numbers of TCR-β clones, IgH clones, and isotype clones per sample are recorded in Table S2. Here, we also examined the differences between maternal blood and cord blood in cases of PPROM (Figure S1). Unlike in the term comparison, here there were significant differences in both the TCR-β entropy and the TCR-β CDR3 length. Comparing term maternal blood to PPROM maternal blood, we found no differences in the entropy, rate of SHM, or CDR3 length (Figure S2).

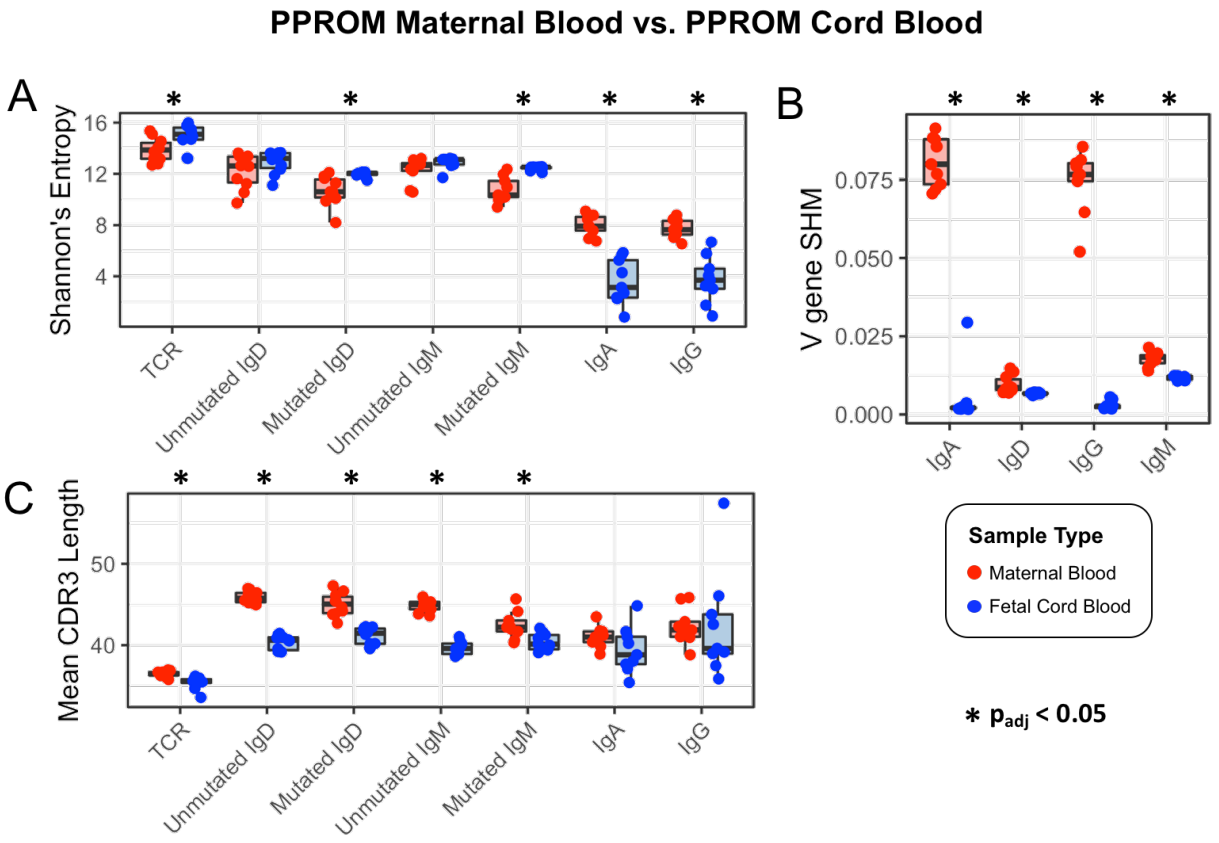

Figure S1. Differences observed in maternal vs. fetal repertoires in PPROM pregnancies were similar to those observed in term pregnancies. (A) Diversity as measured by Shannon's entropy. (B) IgH SHM rates. (C) Comparisons of mean CDR3 lengths.

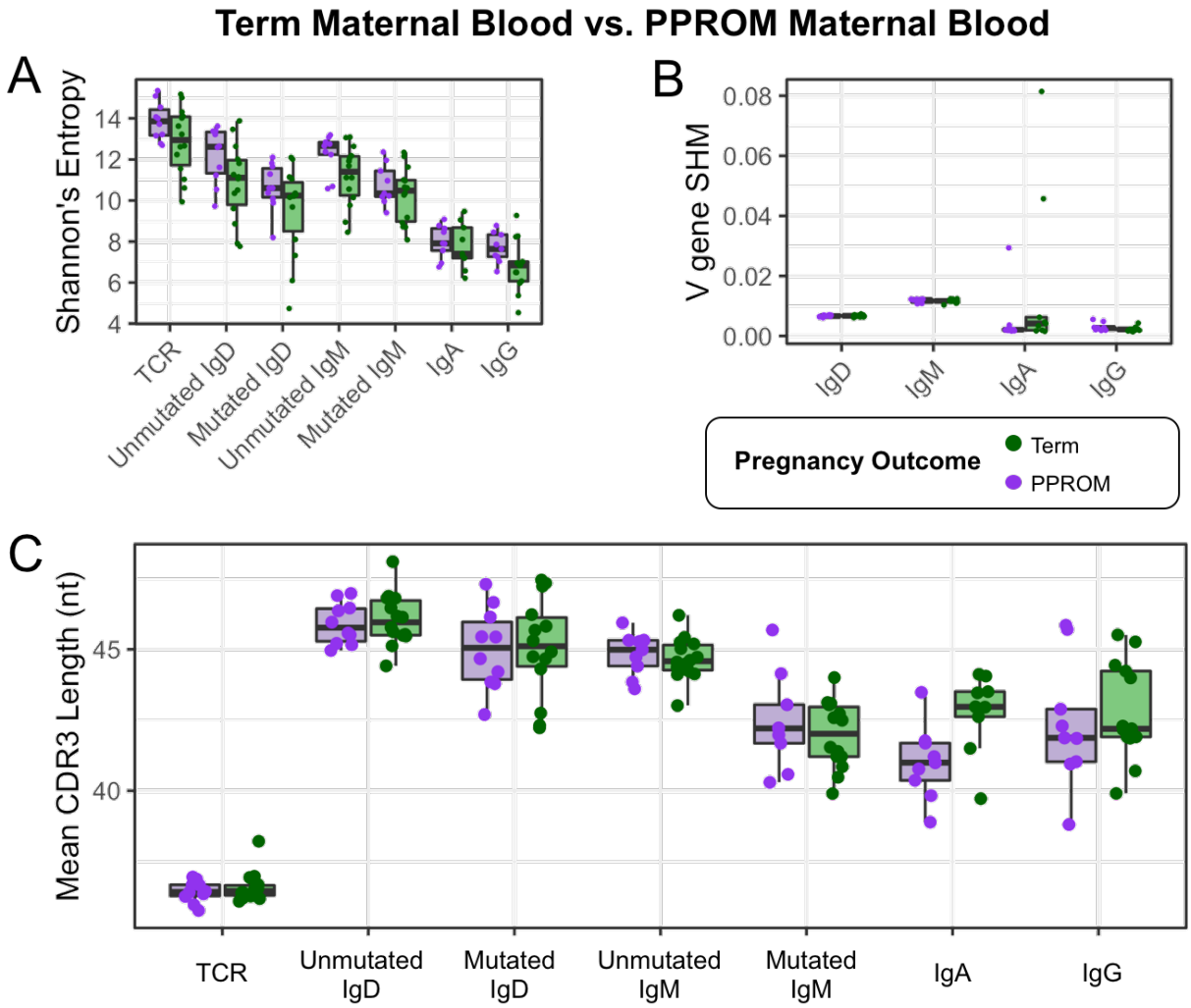

Figure S2. No significant differences observed between term maternal blood and PPROM maternal blood in (A) entropy, (B) rate of SHM, or (C) mean CDR3 length.

Numbers of Reads Per Sample

Sample	TCR Reads	IgH Reads	IgA Reads	IgD Reads	IgE Reads	IgG Reads	IgM Reads
CB1	278710	671829	207811	109933	0	136874	217211
CB2	305772	584130	310	228696	0	140565	214559
CB3	291554	296631	30715	132401	1	6232	127282
CB4	343899	303001	53955	100131	2	65211	83702
CB5	269681	294630	28147	112832	0	48760	104891
CB6	322505	183513	11529	76997	0	12278	82709
CB7	316400	248158	5339	116895	1	4895	121028
CB8	314969	257538	62075	105482	0	24825	65156
CB9	309230	178446	895	85521	4	23542	68484
CB10	338223	192056	25643	70484	0	28289	67640
CB11	311616	130245	600	70316	0	685	58644
CB12	205164	249883	2909	93256	0	58311	95407
CB13	298255	248813	39211	106239	0	8894	94469
CB14	293941	599138	69086	163850	0	201492	164710
CB15	283287	490226	21911	269468	0	12393	186454
CB16	260968	430909	4	219779	0	8618	202508
CB17	322249	156545	5579	79128	0	9678	62160
CB18	267783	531845	8418	303269	0	31579	188579
CB19	263243	515866	58228	163939	1	143600	150098
CB20	242930	424407	13	195477	2	30857	198058
CB21	317271	151596	580	90454	0	569	59993
CB22	287666	278122	62782	108944	0	24883	81513
CB23	254497	479035	6871	248191	0	1649	222324
CB24	378110	226462	1268	129601	0	1869	93724
MB1	287659	651959	147508	166623	3846	142762	191220
MB2	273772	561018	165733	25251	0	183822	186212
MB3	267802	414323	73361	97276	26557	97604	119525
MB4	323088	327218	31662	88130	76776	64478	66172
MB5	298787	208469	5348	64532	2	65000	73587
MB6	319638	315961	30335	79199	91790	59748	54889
MB7	279422	362653	67829	122656	22454	82332	67382
MB8	324518	309914	41424	57171	123478	40245	47596
MB9	324330	122754	7632	39034	6624	44531	24933
MB10	332310	124783	17520	62102	0	11860	33301
MB11	327973	251685	68576	79290	0	70096	33723
MB12	233037	397146	53327	112610	113539	74798	42872
MB13	278333	345735	53575	105959	0	82502	103699
MB14	272065	702244	127735	209967	5	165514	199023
MB15	307975	506516	71441	198180	1	185424	51470
MB16	270195	476853	114020	112124	0	119567	131142
MB17	349809	266286	46489	93831	0	62735	63231
MB18	290491	822102	147981	223649	106252	180107	164113
MB19	298337	740912	73908	153577	178967	143864	190596
MB20	243705	781622	125317	261680	1	197166	197458
MB21	306050	162778	15936	62148	2	74919	9773
MB22	267184	384130	77731	120954	25399	63404	96642
MB23	269155	642921	29597	248401	1	183166	181756
MB24	307468	490760	66492	113748	137419	85252	87849

Table S1. Number of TCR reads, IgH reads (ignoring isotype), and reads per isotype (IgA, IgD, IgE, IgG, IgM (CB = cord blood, MB = maternal blood, paired samples are matched by number).

Numbers of Unique Clones Per Sample

Sample	TCR Clones	IgH Clones	IgA Clones	IgD Clones	IgE Clones	IgG Clones	IgM Clones
CB1	18337	63019	934	23848	0	155	38535
CB2	23858	93942	3	43862	0	58	51320
CB3	76028	87031	34	31934	1	11	59145
CB4	98485	82282	292	29602	1	257	54272
CB5	105626	57141	209	22093	0	823	42515
CB6	104384	93075	37	41248	0	112	56635
CB7	53100	24874	11	11074	1	4	16773
CB8	85723	91382	344	48339	0	130	48030
CB9	21106	43302	10	16680	4	31	28823
CB10	56057	54071	29	23617	0	44	32766
CB11	31032	19732	2	9444	0	1	11404
CB12	40125	45253	15	21389	0	44	26227
CB13	28035	50102	78	21841	0	30	30456
CB14	62580	126063	276	39445	0	488	87516
CB15	19196	44129	10	17186	0	4	27924
CB16	23848	109078	3	45687	0	4	65644
CB17	51393	84710	31	40876	0	18	48189
CB18	15110	42172	8	16539	0	15	25929
CB19	35650	131554	1576	60989	1	987	69952
CB20	35464	82561	12	36015	1	17	47598
CB21	24944	23074	1	13945	0	3	10242
CB22	65369	88382	174	44740	0	88	47791
CB23	24397	29273	2	9313	0	5	20817
CB24	27250	46948	6	24167	0	6	25542
MB1	41601	69816	6553	26329	4	6864	31054
MB2	69514	123857	8615	20100	0	5306	91785
MB3	56076	73714	3253	35676	7	2898	37761
MB4	53352	59295	4426	22405	44	4468	30017
MB5	95836	90024	644	35622	2	1537	55266
MB6	69940	51042	4013	21951	16	4586	23845
MB7	86228	83319	5141	35340	6	4241	45123
MB8	41322	56232	4823	24499	76	4196	25615
MB9	91462	51485	2678	23255	4	6661	19744
MB10	54558	28664	5461	10457	0	1144	12410
MB11	46177	20921	1658	9524	0	1669	8544
MB12	61017	47520	4858	21464	30	1232	21956
MB13	22334	24972	2948	6383	0	1219	14942
MB14	26351	42378	2899	13586	2	1659	24823
MB15	11293	14180	2260	4289	1	2350	5470
MB16	11749	10261	901	2697	0	739	6003
MB17	21414	20005	2333	7379	0	1914	8895
MB18	17226	22143	2703	7629	7	1673	10332
MB19	22830	43694	1338	14667	12	1499	27159
MB20	5999	9745	702	3155	1	536	5446
MB21	18376	6829	221	4043	2	641	1980
MB22	39831	18270	1126	11151	3	784	5394
MB23	15858	31217	804	13279	1	1950	15429
MB24	35931	38943	4757	13017	465	2470	19121

Table S2. Number of TCR unique clones, IgH clones (ignoring isotype), and clones per isotype (IgA, IgD, IgE, IgG, IgM (CB = cord blood, MB = maternal blood, paired samples are matched by number).