

Table 3.1 – Heavy Chain Repertoire

	HC.Seq. Source	VH. locus	JH. locus	DH. locus	HC. IgBLAST. mutation. count	HC.CDR3.DNA	HC. CDR3. length	HC.CDR3. isoelectric. point	2ndPCR .Isotype	BASIC Isotype	HC Isotype	Clone
PW2-A1	BASIC	VH4-38-2	JH4	DH6-13	7	GCGAGAGTC CGGGGGCAT GGCCTGATC GGGCTGGAT TTCGGCACCA TAGCAGCCC CCCACCCATT TGA	24	6.9633178 71	IgG1	IgG1	IgG	0
PW2-A10	BASIC	VH3-74	JH3	DH3-9	30	GCAAGAGGT TATGACACTA CTGGTTATAA CTCGGGGGG CGATGCTATT TTTGATCTC	19	3.9299926 76	unclear	IgG1	IgG	0
PW2-A11	BASIC	VH4-59	JH6	DH5-18	36	GCGAGAGCG GACTTTGATG TAGAGGGATA CTACGGTTTG GACGTT	15	3.8390502 93	IgG1	IgG1	IgG	26
PW2-A12	BASIC	VH4-59	JH4	DH2-15	20	GCGAGACAT CACTCTGATA GTGGTGGTC TCCCGATGA GCTTTGCCTA C	16	6.9605102 54	IgG1	IgG1	IgG	0
PW2-A2	BASIC	VH3-48	JH4	DH3-16	28	GCGAGAGAT CACCACGGT GATTACTTCT TTGACTAC	12	5.1347045 9	IgG1	IgG1	IgG	25
PW2-A3	BASIC	VH1-3	JH6	DH3-22	36	GCGAGGTCT CGTGGTTACT CCGCCTTCTA CTACGGCAT	15	8.5392456 05	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						GGACGTC						
PW2-A4	BASIC	VH3-7	JH3	DH3-22	22	GCGAGGGGT TATGATAGTA CTGGTTATAA CTTACTGGGA GATGTTTTTG ATATG	18	3.9299926 76	IgG1	IgG1	IgG	17
PW2-A5	BASIC	VH3-7	JH4	DH2-21	15	GCGAGAGAG GCAGGTGGT GATTATTACC TTGACTCT	12	4.0280151 37	IgG1	IgG1	IgG	0
PW2-A6	BASIC	VH4-61	JH4	DH5-12	21	GCGACGCCG GACAGTGGC TACGATTCTG GGATGTTTCA CAAT	14	4.1968383 79	IgG1	IgG1	IgG	27
PW2-A7	BASIC	VH2-26	JH4	DH2-21	20	ACACGCATAA GGTGGGACT GTGGTGGTG ATTGCTATTG GACCCATGA CTTC	17	5.2677612 3	IgG1	IgG1	IgG	0
PW2-A8	BASIC	VH1-3	JH4	DH1-26	15	GCGAGAGAC ACTGTGGGA GCTACTAAGG CTTTTGACTA C	13	6.0040893 55	IgG1	IgG1	IgG	0
PW2-B1	BASIC	VH4-34	JH4	DH3-22	19	GCGAGAGGC CCGGCCTAT GATAATGATG CTTCTTTTCAT GTACTACTTT GACCTC	18	3.9299926 76	IgG1	IgG1	IgG	21
PW2-B10	BASIC	VH3-74	JH4	DH6-19	15	GCAAAAACCG AAAGAGGATA GTAGTGGCT GGTACTACTT	15	4.5582885 74	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						TGACTCC						
PW2-B11	BASIC	VH3-30-3	JH6	DH2-15	29	CCCCTGGCA CCCTCCTCCA AGAGCACCT CT	10	9.1799926 76	IgG1	IgG1	IgG	0
PW2-B12	BASIC	VH1-69	JH6	DH2-21	41	GCGAAAGATA CATTGACTGC CTTCGATTCC TACTTCTACT ACTATGCTAT GGACGTC	19	3.9299926 76	IgG1	IgG1	IgG	1
PW2-B2	BASIC	VH3-7	JH4	DH4-23	26	GTGAGGGAT TTCAGCGACT ACGCAGCAA CGCCCCTTG ACTAT	14	3.9298706 05	IgG1	IgG1	IgG	0
PW2-B3	BASIC	VH4-61	JH4	DH5-12	20	GCGACGCCG GACAGTGGC TACGATTCTG GGATGTTTCA CAAC	14	4.1968383 79	IgG1	IgG Family	IgG	27
PW2-B4	BASIC	VH3-15	JH4	DH1-26	39	ACCACCCTTG GATACAACAG CAGCTACTAT TACTTTGACT TC	14	3.7991333 01	IgG1	IgG1	IgG	0
PW2-B6	BASIC	VH3-30-3	JH6	DH6-13	28	GCGAGAGAG CCTATAGCAC CTGGTCCTTA TGACTACTAC GCCGGTATG GATGTC	18	4.0280151 37	IgG1	IgG1	IgG	12
PW2-B7	BASIC	VH3-30-3	JH6	DH6-13	28	GCGAGAGAG CCTATAGCAC CTGGTCCTTA TGACTACTAC GCCGGTATG	18	4.0280151 37	IgG1	IgG1	IgG	12

Table 3.1 – Heavy Chain Repertoire

						GATGTC						
PW2-B8	BASIC	VH3-30-3	JH6	DH6-13	31	GCGAGAGAG CCTATAGCAC CTGGTCCTTA TGACTACTAC GCCGGTATG GATGTC	18	4.0280151 37	IgG1	IgG1	IgG	12
PW2-B9	BASIC	VH3-30-3	JH6	DH6-13	30	GCGAGAGAG CCTATAGCAC CTGGTCCTTA TGACTACTAC GCCGGTATG GATGTC	18	4.0280151 37	IgG1	IgG1	IgG	12
PW2-C1	BASIC	VH1-69	JH6	DH5-12	19	GCGACAGAT CAATTGAGTG CCTTCGATTC CTACTACTAC TACTACGGTA TGGACGTC	19	3.4227905 27	IgG1	IgG1	IgG	1
PW2-C11	BASIC	VH4-30-4	JH5	DH3-9	21	GCCGGAGCA TATTACGATA TTTTGACTCG TTACGGACTC GACCCC	15	4.2079467 77	unclear	IgA1	IgA	0
PW2-C12	BASIC	VH3-48	JH4	DH5-12	25	GCCATTTTCGT TGGGTGGCT ACTTCTTTGA TTAC	11	3.7998657 23	IgA Family	IgA Family	IgA	0
PW2-C2	BASIC	VH1-69	JH6	DH5-12	13	GCGAGAGAT AAATTGAGTG CCTTCGATTC CTACTACTAC TACTACGGTA TGGACGTC	19	4.4290161 13	IgG1	IgG1	IgG	1
PW2-C3	BASIC	VH1-69	JH6	DH5-12	12	GCGAGAGAT AAATTGAGTG CCTTCGATTC	19	4.4290161 13	IgG1	IgG1	IgG	1

Table 3.1 – Heavy Chain Repertoire

						CTACTACTAC TACTACGGTA TGGACGTC						
PW2-C4	BASIC	VH1-69	JH6	DH5-12	28	GCGAGAGAA ACATTGAGTG CCTTCGATT CTACTACTAC TACTATGGTA TGGACGTC	19	4.0280151 37	unclear	IgG1	IgG	1
PW2-C5	BASIC	VH3-30-3	JH6	DH3-9	33	GCGAGAGAG CCTATCGCG CCTGGTCCT GATGACTACT ACGCCGGTA TGGATGTC	18	3.8390502 93	IgG1	IgG1	IgG	12
PW2-C6	BASIC	VH3-30-3	JH6	DH6-13	31	GCGAGAGAG CCTATAGCAC CTGGTCCTTA TGACTACTAC GCCGGTATG GATGTC	18	4.0280151 37	IgG1	IgG1	IgG	12
PW2-C7	BASIC	VH3-30-3	JH6	DH2-2	37	GCGAGAGAG CCTATCGCG CCTGGTCCT GATGACTACT ATGCCGGTAT GGATGTC	18	3.8390502 93	IgG1	IgG1	IgG	12
PW2-C8	BASIC	VH1-69	JH6	DH5-12	14	GCGACAGAT AAATTGAGTG CCTTCGATT CTACTACTTC TACTACGGTA TGGACGTC	19	3.9299926 76	IgG1	IgG1	IgG	1
PW2-C9	BASIC	VH1-69	JH6	DH5-18	22	GCGAAAGATA CATTGAGTGC CTTCGATTCC TACTACTTCT	19	3.9299926 76	IgG1	IgG1	IgG	1

Table 3.1 – Heavy Chain Repertoire

						ACTACGGTAT GGACGTC						
PW2-D1	BASIC	VH3-72	JH3	DH5-24	23	GCTAGGGAG ATGGCCACA CGTACGGAC GATGATGCTC TTGATGTG	15	4.0359497 07	IgA1	IgA2	IgA	0
PW2-D11	BASIC	VH3-74	JH4	DH1-14	14	GCAAGAGAA CCTAGAGGA GGTCGCCCA TTTGACTGC	12	8.2943725 59	unclear	IgA1	IgA	0
PW2-D12	BASIC	VH4-30-4	JH5	DH2-15	22	GCCAGAGAT CGAAAACCA GCCATGGAAT GCATTGGTAG TGGATGCTCT TTTGTCCGCC TGGGGTTCCG ACCCC	24	8.1000366 21	IgA1	IgA1	IgA	0
PW2-D2	BASIC	VH3-53	JH3	DH1-26	20	GCGAGAGCA TCCGTTGACT TCATAGTGGA ACACCATATC TTTGATCTC	16	5.2136840 82	IgA1	IgA1	IgA	0
PW2-D3	BASIC	VH4-59	JH4	DH1-1	17	GCGAGAGGA CGCCGAGGT AGCGCCTGG AAGAACTTTG ACTAC	14	10.903625 49	IgA1	IgA1	IgA	0
PW2-D4	BASIC	VH3-7	JH4	DH2-8	25	GTGAGGGAT CGGGGTTGT CGAGCTGGT GGCTGTTACC GTGTTTTTGA CTAC	17	8.8986206 05	unclear	IgA1	IgA	18
PW2-D5	BASIC	VH3-48	JH6	DH6-25	23	GCGAGAGCG GCGTTTAGTA	17	8.5455932 62	IgA Family	IgA2	IgA	0

Table 3.1 – Heavy Chain Repertoire

						GGAATGGGT ACTACCACTA CGGAATGGA CGTC						
PW2-D6	BASIC	VH4-39	JH6	DH1-14	29	GCGAGACTG GCGGGGGCA GCTACTTCGA TAGAGGATAT AACTCACTAT AACCATTATG GTATGGACGT C	23	5.2136840 82	IgA Family	IgA1	IgA	0
PW2-D7	BASIC	VH4-59	JH3	DH1-26	9	GTGAGACAT GAGTGGGCG CCCCGAGGG CTTGATGCTT TTGATTTT	15	5.3795776 37	unclear	IgA1	IgA	0
PW2-D8	BASIC	VH4-59	JH4	DH4-11	9	GCGGGGCGG TCGGCTACA GTACTGGCT GACTCTGACT AC	13	4.2079467 77	IgA Family	IgA1	IgA	23
PW2-D9	BASIC	VH4-59	JH4	DH4-11	9	GCGGGGCGG TCGGCTACA GTACTGGCT GACTCTGACT AC	13	4.2079467 77	IgA Family	IgA1	IgA	23
PW2-E1	BASIC	VH3-20	JH6	DH1-20	28	GCGAGAGAG GGGTACAGT GAGCCCTATA ACTACTATCA TTATGGATTG GACGTC	18	4.6513061 52	unclear	IgA1	IgA	0
PW2-E10	BASIC	VH4-38-2	JH4	DH3-10	9	ACGAGGATTT ATATGGTTTCG GGACCTTGA GATATACTAC	16	4.5554809 57	IgA1	IgA1	IgA	22

Table 3.1 – Heavy Chain Repertoire

						TTTGACTCC						
PW2-E11	BASIC	VH4-38-2	JH4	DH3-10	14	GCGAGGATTT ATATGGTTCG GGACCTTGA GATATACTAC TTTGACTCC	16	4.5582885 74	IgA1	IgA1	IgA	22
PW2-E12	BASIC	VH5-10-1	JH4	DH3-10	9	GCGAGACTA CTTTATGGTT CGGTGGACT TC	10	5.8803100 59	IgA1	IgA2	IgA	0
PW2-E2	BASIC	VH3-53	JH6	DH2-21	15	GCGAGAGAG CGACGTTTTT GTGGTGATAA TTGCTATCTT CACTACTACT ACGGTATGG ACGTC	21	6.7753295 9	IgA Family	IgA1	IgA	0
PW2-E3	BASIC	VH3-48	JH4	DH4-17	5	GCGAGAGAT TCTTTCGGTG ACTACTTCTT TGACAAT	12	3.9299926 76	IgG1	IgG1	IgG	25
PW2-E4	cloning	VH5-10-1	JH5	DH1-26	15	GCGAGGTTG TTGAGTGGG ACCTTTGACT CC	10	5.8811645 51	IgG1	IgG1	IgG	28
PW2-E5	BASIC	VH3-33	JH6	DH6-19	24	GCGAGAGAA CTCGTGGCT GTGGGGCCA ATCGACTACT TCCACGGCAT GGACGTC	18	4.5365600 59	IgG1	IgG1	IgG	0
PW2-E6	BASIC	VH3-11	JH6	DH2-2	15	GCGAGAGCC CTACGATATT GTAGTAGCAA TAGCTGCCCT GAATCTTACT ACTACTATTA	24	6.0929565 43	IgG1	IgG1	IgG	3

Table 3.1 – Heavy Chain Repertoire

						TGGTATGGAC GTC						
PW2-E7	BASIC	VH3-30	JH5	DH3-22	19	GCGAAACAG GGATATTACT ATGATAGTAC TGGGTCTCAA GTGGTTCGA CCCC	17	6.0014038 09	IgG3	IgG3	IgG	0
PW2-E8	BASIC	VH4-61	JH5	DH2-21	28	GCGCGGGGG GGACTCAGT GACTTCGTCTG TCCCTTTAGA CTCC	14	4.2079467 77	IgG Family	IgG1	IgG	0
PW2-E9	BASIC	VH4-38-2	JH4	DH3-10	12	ACGAGGATTT ATATGGTTCG GGACCTTGA GATATACTAC TTGACTCC	16	4.5554809 57	unclear	IgA1	IgA	22
PW2-F1	BASIC	VH4-38-2	JH4	DH3-10	6	GCGAGGATTT ATATGGTTCG GGACCTTGA GATATACTAC TTGACTCC	16	4.5582885 74	unclear	IgA1	IgA	22
PW2-F11	BASIC	VH5-10-1	JH4	DH1-26	22	GCGAGACCC GGAGTGGGA CCTCCTTCGG ACTAC	11	5.8803100 59	IgG1	IgG1	IgG	0
PW2-F12	BASIC	VH4-39	JH6	DH4-17	19	GCGAGACCG AGCAGTGACT ACTACTCCTA CGCTATGGA CGTC	14	4.2079467 77	IgG1	IgG1	IgG	0
PW2-F2	BASIC	VH3-15	JH4	DH4-17	10	GCCGCCGAA GACTTCGGT GACTACTACT TTGACTAC	12	3.3739624 02	unclear	IgA1	IgA	0
PW2-F3	BASIC	VH3-21	JH6	DH3-16	26	GCGAGACAC	16	6.7882690	unclear	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						CGACCCGGG GGGGACTAC TACTACTACG GTATGGACGT C		43				
PW2-F4	BASIC	VH4-38-2	JH4	DH3-10	6	GCGAGGATTT ATATGGTTCG GGACCTTGA GATATACTAC TTTGACTCC	16	4.5582885 74	IgA1	IgA1	IgA	22
PW2-F5	BASIC	VH3-23	JH4	DH3-9	34	GTTACCTGGC GGAGGTCTC TGACTGGTTA TCCCGATTCG GGGGTTTTTG ACTAC	18	5.9302368 16	unclear	IgA1	IgA	0
PW2-F6	BASIC	VH3-48	JH4	DH2-8	12	GCGAGACTT CTGTATTGTA CTACTTGTTA CGGACTTGG GAGGTTCCC CGACTAC	18	8.0737915 04	IgA Family	IgA1	IgA	0
PW2-F7	BASIC	VH3-11	JH6	DH3-22	22	GCGAGAGGC CTGACTTATT ATGATAGTAG TGTTAATGCT TACTATGCTA TGGACGTC	19	4.2079467 77	unclear	IgA1	IgA	0
PW2-F8	BASIC	VH3-7	JH3	DH6-19	18	GCGAGATGC ACTGGCTGG CGTGATCCTT TTGATTTA	12	5.9971313 48	unclear	IgA1	IgA	16
PW2-F9	BASIC	VH3-21	JH3	DH2-8	16	GCGCGCGAG ACCACCTATT TCTATGATAC TGGTGGTTCC GCCTATGCTT	19	4.0280151 37	IgA Family	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						TTGATGTC						
PW2-G1	BASIC	VH3-9	JH6	DH2-15	8	GCAAAAGATA TCAGAAGGG GTTGTAGTGG TGTTAACTGC TACTCCTATT ATTATTA CTATGGTCTG GACGTC	25	8.0184936 52	IgG1	IgG1	IgG	29
PW2-G10	BASIC	VH3-74	JH4	DH3-16	2	GCAAGAGGG GGCCGTACG TTTGGGGGA GTTATCGTCC AG	13	12.000061 04	IgA1	IgA2	IgA	0
PW2-G11	BASIC	VH3-7	JH4	DH6-19	7	GCGAAATATG GAACCGATG GGGGTGGCA GTGGCTGGA ATCAC	14	6.7871704 1	IgA1	IgA1	IgA	0
PW2-G12	BASIC	VH4-59	JH4	DH2-2	16	GCGAAAATGA CGAGGCAAT ATTGTGATAG TGCCAGCTG CTATGGGGG ACCTTTTGAC TTC	20	5.9863891 6	IgA Family	IgA2	IgA	0
PW2-G2	BASIC	VH3-53	JH4	DH1-26	25	GCAAGAGAC AATAGAAGG GAGGCCTAC	9	8.7880249 02	IgG1	unclear	IgG	0
PW2-G3	BASIC	VH3-9	JH6	DH2-15	16	GCAAAAGATA TCAGAAGGG GTTGTGATGG TGTTAACTGC TACTCCTATT ACTACTACTA TTATGGTTTG GACGCC	25	6.0615844 73	IgG1	IgG1	IgG	29

Table 3.1 – Heavy Chain Repertoire

PW2-G4	BASIC	VH5-10-1	JH1	DH5-24	28	GCGAGAATTC GTAGAGATG GGTACAATCT GGGGCTTTTT GACCAC	15	8.7938842 77	IgG1	IgG1	IgG	0
PW2-G6	BASIC	VH3-30	JH6	DH2-2	23	GCGAAAGAC CGCTACTGTA GTAGTACCG CCTGTTATGG GCTCGGCGG TTTGGACGTC	19	5.9863891 6	IgA1	IgA1	IgA	0
PW2-G7	BASIC	VH4-39	JH5	DH6-19	42	GTGAGACCT GTCATTGGCA GTGGCAGGT ACCGAGGAC CCCCTCGTT CGACCCC	18	10.737243 65	IgA1	IgA1	IgA	0
PW2-G8	BASIC	VH3-9	JH3	DH3-9	27	GCAGCGGGG AATTATTTTG AAACAAGGTC TGAAGAGAAC GAAGCCCCA TATGATGCTT TTGAAATT	22	3.8302612 3	IgA1	IgA1	IgA	0
PW2-G9	BASIC	VH3-30	JH4	DH3-22	11	GCGAAGGCG GGTAGTGGTT ATAACTCAAG GCCTGACTC C	13	8.6338500 98	IgA1	IgA1	IgA	0
PW2-H1	BASIC	VH1-2	JH3	DH2-21	34	GCGAGAAATT TTTGTGGTGC TGACTGTTTC GGCTCGGCT CCCGATGCTT TTGATATC	19	3.9299926 76	IgA1	IgA1	IgA	0
PW2-H2	BASIC	VH3-7	JH5	DH2-15	18	GCGAGAGTA GGATATTGTA	19	4.5581665 04	IgA Family	IgA2	IgA	0

Table 3.1 – Heavy Chain Repertoire

						GTGGTGAGA CCTGCCAGG GCCGGGACT GGTTGACC CC						
PW2-H3	BASIC	VH3-66	JH5	DH3-10	25	GCGAGAGAT CTATTGCGG GCCTCGGGG AGTTCC	11	9.6436157 23	IgA1	IgA1	IgA	0
PW2-H4	BASIC	VH3-23	JH4	DH5-18	17	GCGAAAGGG ACAAGTAACA GGGCAGGTT ACTACTTTGA CTAC	14	8.4732055 66	IgA Family	IgA1	IgA	0
PW2-H5	BASIC	VH3-30-3	JH6	DH2-8	9	GCGAGAGGA TATTGTACCG CTAGCAGCT GCTTGGAGG TGCGCTACTA CTACTTTCAC TACATGGACG TC	23	6.7711791 99	IgA1	IgA1	IgA	0
PW3-A1	BASIC	VH3-7	JH4	DH3-3	33	GTGAAAGAC GCATTTTGTG GCGATAAGT GCTATCCCTT TGACTCC	15	4.4288940 43	IgA1	IgA1	IgA	0
PW3-A10	BASIC	VH3-7	JH3	DH4/OR 15-4a	35	GCGAGGGAT CCATTTGTAG GAAGGTATG GTGCTTTTGA CATT	14	6.0049438 48	IgA1	IgA1	IgA	0
PW3-A11	BASIC	VH3-23	JH4	DH2-2	24	CGTGAAGGG CCGGTTCAC CATCTCCAGA GACAATTCCA AGAACACACT	16	7.0278930 66	IgA Family	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

PW3-A12	BASIC	VH3-72	JH6	DH5-24	9	GCTAGAGAAA TGAAGCTAGA GATGGCCAC AATAGAGTAC TGGTACTACG GTATGGACGT C	20	4.4074096 68	IgA1	IgA2	IgA	0
PW3-A2	BASIC	VH3-11	JH6	DH3-10	12	GCGGCGGGT TCGGGGAGT TATAATTATC ACGGTTTGGA CGTC	14	5.0781860 35	IgA1	IgA1	IgA	2
PW3-A3	BASIC	VH3-53	JH4	DH5-18	7	GCGAGAGAA GTGCATGATG GATACAGTTA TGGACTTGAC TAC	14	4.5365600 59	IgA1	IgA1	IgA	0
PW3-A4	BASIC	VH3-11	JH6	DH3-10	12	GCGGCGGGT GCGGGGAGT TATTCCTACC ACGGTTTGGA CGTC	14	5.0781860 35	IgA1	IgA1	IgA	2
PW3-A5	BASIC	VH3-11	JH6	DH3-10	10	GCGGCGGGT TCGGGGAGT TATAGTTACC ACGGTTTGGA CGTC	14	5.0781860 35	IgA1	IgA1	IgA	2
PW3-A6	BASIC	VH4-39	JH5	DH1-26	33	GCCAAGTGG GGGGGGGGC TTTGACCCC	9	5.8803100 59	IgA Family	IgA2	IgA	0
PW3-A7	BASIC	VH3-33	JH3	DH3-16	24	GCGAAGGAT TGGGGCCTG AAGGCTTTTG ATGTC	11	6.0040893 55	IgA1	IgA2	IgA	0
PW3-A8	BASIC	VH3-64D	JH4	DH2-8	8	GTAAAAGGGT ACTTCTTTGA CGAC	8	4.5354614 26	IgA1	IgA1	IgA	15

Table 3.1 – Heavy Chain Repertoire

PW3-A9	BASIC	VH3-30-3	JH6	DH3-9	17	TCGAGAGAG TATTACGATA CTTTGACTGG ACCTGAGGA CTACGACTAC GGTATGGAC GTC	20	3.6598510 74	IgA1	IgA1	IgA	13
PW3-B1	BASIC	VH3-30-3	JH6	DH3-9	14	GCGAGAGAG TATTACGATA CTTTGACTGG ACCTGTGGA CTACGACTAC GGTATGGAC GTC	20	3.7100219 73	IgA1	IgA1	IgA	13
PW3-B10	BASIC	VH3-9	JH4	DH3-10	10	GCAAAAGGC TATGGTTCGG GGAATTCTTA CCCCCTGGC GCCCACTCTT GACTAC	18	5.8777465 82	IgA1	IgA1	IgA	19
PW3-B11	BASIC	VH3-9	JH4	DH3-10	15	GCAAAAGGC TATGGTTCGG GGAATCATT CCCCCTGGC GCCCACTCTT GACTAC	18	6.7849731 45	IgA1	IgA1	IgA	19
PW3-B12	BASIC	VH3-15	JH5	DH2-2	17	ACTAAGTACG TCGGATATTG TGAAAGTACC AACTGCTATG AGGTCCAAA GGGGTTCG ACCCC	21	4.6754760 74	IgA1	IgA1	IgA	0
PW3-B3	BASIC	VH3-9	JH4	DH3-10	10	GCAAAAGGC TATGGCTCG GGGAGTTCTT ACCCCCTGG	18	5.8777465 82	IgA1	IgA1	IgA	19

Table 3.1 – Heavy Chain Repertoire

						CGCCCACTCT CGACTAT						
PW3-B4	BASIC	VH3-9	JH4	DH3-10	8	GCAAAAGGC TATGGTTCGG GGAATTCTTA CCCCCTGGC GCCCACTCTT GACTAC	18	5.8777465 82	IgA1	IgA1	IgA	19
PW3-B5	BASIC	VH3-30	JH6	DH4-17	11	GCGAAAATA CGGTGACTA CTGATTTCTA CTACTATTAC GGCATGGAC GTC	17	4.2079467 77	IgA1	IgA1	IgA	0
PW3-B6	BASIC	VH3-23	JH4	DH1-1	21	GCGAAAAT GGTGGCCCA CATGCTACCC ACCCACACAA C	13	8.8123168 95	IgA Family	IgA1	IgA	0
PW3-B7	BASIC	VH3-20	JH6	DH2-2	23	GCGAGAGAA TCGGGTTCTG ATGTAGCAAC TGCTATGGAT TACTACTATT ACTATTATAT GGACGTC	22	3.8390502 93	IgA1	IgA1	IgA	4
PW3-B8	BASIC	VH3-23	JH4	DH3-3	5	GCGAAAGTT GGAGTGAGC AGTGGTTTCC ATGGAAGGG CTTACTACTT TGACTION	18	8.4795532 23	IgA1	IgA Family	IgA	7
PW3-B9	BASIC	VH3-48	JH4	DH3-3	9	GCGAGACAA TATTACGAAT TTGGAGTGG TTATTATACC GGTATGGGC	17	6.0425415 04	IgA1	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						TAC						
PW3-C10	BASIC	VH3-30	JH4	DH1-1	21	GCGAAAGATA GCGGATATAC CATCAACTGG GCCCCGGGC TAC	14	5.8786010 74	IgG1	IgG1	IgG	0
PW3-C12	BASIC	VH3-48	JH4	DH5-24	30	GTGAGAGAT CACGTAGAAT TGGCTACAGA TCATTCGGAA TTTGACTAC	16	4.4186401 37	IgG1	IgG1	IgG	14
PW3-C2	BASIC	VH3-23	JH4	DH3-22	14	GCGAAAGTT GGAGTGAGT AGTGGTTTCC ATGGAAGGG CTTACTACTT TGACCAG	18	8.5463256 84	IgA1	IgA1	IgA	7
PW3-C3	BASIC	VH3-9	JH4	DH3-10	10	GCAAAAAGGG TATGGTTCGG GGAATCATTA TCCCCTGGC GCCCACTCTT GACTAT	18	6.7849731 45	IgA1	IgA1	IgA	19
PW3-C5	BASIC	VH3-9	JH4	DH3-10	15	GCAAAAAGGC TATGGTTCGG GGAATCATTA CCCCCTGGC GCCCACTCTT GACTAC	18	6.7849731 45	IgA1	IgA1	IgA	19
PW3-C6	BASIC	VH3-9	JH4	DH3-10	14	GCAAAAAGGC TATGGCTCG GGGAGTTCTT ACCCCCTGG CGCCCATGC TTGACTAC	18	5.8777465 82	IgA1	IgA1	IgA	19
PW3-C9	BASIC	VH3-23	JH5	DH6-19	10	GCGAAAGGG CGGAGGGGA	15	6.1661987 3	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						CCATTTGAGG ATGGCTGGTT CGACACC						
PW3-D1	BASIC	VH3-30	JH6	DH5/OR 15-5a	16	GCGCGTGTGTC TTCCAATCCT ACGGTATGG ACGTC	11	5.8803100 59	IgG1	IgG1	IgG	10
PW3-D10	BASIC	VH3-74	JH4	DH3-10	13	GCAAGAGAG CCTTACTTCC CCCTCTACTT TGACTAC	12	4.3703002 93	IgG1	IgG1	IgG	20
PW3-D11	Cloning	VH3-74	JH4	DH3-10	14	GCAAGAGAG CCTTATTTCC CCCTCTACTT TGACTAC	12	4.3703002 93	IgG1	IgG1	IgG	20
PW3-D12	BASIC	VH3-20	JH6	DH2-2	19	GCGAGAGAA TCGGGTGAC GTAGCAACTG CTATGGATTA CTACTATTAT TACTATCTGG ACGTC	21	3.8390502 93	IgG1	IgG1	IgG	0
PW3-D2	BASIC	VH3-48	JH4	DH5-24	15	GCGCGAGAT CACGTAGAG ATGGCTACAG ATCATGCGGA ATTTGACTAC	16	4.4187622 07	IgG1	IgG1	IgG	14
PW3-D4	BASIC	VH4-39	JH4	DH3-16	21	GCGAGACAT CTCCGGGGG GACTTCGCTG ACTACTTTGA CTAC	14	5.2988891 6	IgG1	IgG1	IgG	0
PW3-D5	BASIC	VH3-20	JH4	DH2-21	11	GCGAGAAGG AGATCATGTG GTGGTGCAT GTTACTACTT TGACTAC	15	8.8635864 26	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

PW3-D6	BASIC	VH1-46	JH4	DH2-21	26	GCGAGACTA CGTAGTTGTG GTGGTGA GCTATTACTT TGACTAC	15	5.9863891 6	IgG1	IgG1	IgG	0
PW3-D9	BASIC	VH3-20	JH6	DH2-2	21	GCGAGAGAA TCGGGTTCTG ATGTCGCAAC TGCTATGGAT TACTACTATT ATTACTATAT GGACGTC	22	3.8390502 93	IgG1	IgG1	IgG	4
PW3-E1	BASIC	VH1-3	JH6	DH2-2	11	GCGAGAGAT AAGGGGAAC ATTGTAGGAG TACCAGCTGC CTGGACTATC GGCTGGTAC GGTATGGAC GTC	23	6.0040893 55	IgG Family	IgG1	IgG	0
PW3-E3	BASIC	VH3-9	JH6	DH4-17	21	GCAAAAGAG GGGCATAGC GACAACTGTC TCGATTGTGA CTACTTCTAC TACATGGACG CC	20	4.0324096 68	IgG1	IgG1	IgG	0
PW3-E4	BASIC	VH3-20	JH6	DH5-18	20	GCGAGAGAA TCGGGTTCTG ATGTAGCCAC TGCGATGGAT TACTACTATT ATTACTATCT CGACGTC	22	3.8390502 93	unclear	IgG1	IgG	4
PW3-E7	BASIC	VH4-4	JH6	DH6-19	15	GCGAGGGAT CATCTGGTCG GACAACAGT	21	4.5365600 59	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						GGCTGGAGT ATTACTACTA CTACGGTTTG GACGTC						
PW3-E9	BASIC	VH3-20	JH6	DH2-2	24	GCGAGAGAA TCGGGCTCT GATGTAGCAA CTGCTATGGA TTACTATTATT ATTACTATAT GGACGTC	22	3.8390502 93	IgG1	IgG1	IgG	4
PW3-F10	BASIC	VH3-23	JH4	DH3-3	40	GCCAAAGGG TCGGCGAAAT TCAAGTCTCA ACAATTCTTG GCTAGGAGT GGTTATACTC AGCGAAGCC ATTTTGACTT C	26	10.446960 45	IgA Family	IgA1	IgA	8
PW3-F11	BASIC	VH3-30	JH6	DH3-9	30	GCGAAAGAT CTGACATTAC GATTTTTTGA CTGGCCAAA CTACTACGGT ATGGACGTC	19	4.4290161 13	IgA1	IgA1	IgA	0
PW3-F12	BASIC	VH3-48	JH4	DH2-21	9	GCGAGGGAG AAAGAGCGC TATCCAACCT TTGACTCC	12	6.2254028 32	IgA Family	IgA1	IgA	0
PW3-F2	BASIC	VH3-11	JH3	DH4-17	28	GCGAGTCGA ACGGTGACTA GTCGGGCTT ATGATATC	12	8.7902221 68	IgG1	IgG1	IgG	0
PW3-F3	BASIC	VH3-20	JH6	DH2-2	16	GCGAGAGAA TCGGGTTCTG ATGTAGCAAC	22	3.8390502 93	IgG1	IgG1	IgG	4

Table 3.1 – Heavy Chain Repertoire

						TGCTATGGAT TACTACTATT ATTACTATAT GGACGTC						
PW3-F4	BASIC	VH3-23	JH6	DH2-21	19	GCGAGATTC GCATATTGTA GTGGTGA GCTACAAGG CCTCTTACTA CGGTCTGGA CGTC	20	5.9848022 46	IgG1	IgG1	IgG	0
PW3-F6	BASIC	VH3-21	JH4	DH6-13	21	GCGAGAGAT AGGGGCAGC ACCACGGCT GACTAT	11	6.0049438 48	IgA1	IgA1	IgA	0
PW3-F7	BASIC	VH3-43	JH4	DH1-1	30	GTTAAGGACC ACTGGACCG ATAAT	8	5.2096557 62	IgA Family	IgA1	IgA	0
PW3-F8	BASIC	VH3-23	JH4	DH1-20	21	GCGAAAGGA AGGGGGCGG GTGGATAAC	9	10.835144 04	IgA Family	IgA2	IgA	0
PW3-F9	BASIC	VH3-11	JH4	DH5-24	15	GCGAGAGCA GATGGCTACA CCTATTTTGA CATC	11	4.2079467 77	IgA1	IgA1	IgA	0
PW3-G1	BASIC	VH3-21	JH6	DH6-6	1	TGCCAAGAAT GTTTTCATTA ATCAAGAACG AAAGTCGGA GGTTCCG	15	0	IgA1	IgA1	IgA	0
PW3-G10	BASIC	VH4-61	JH4	DH2-21	35	GCGAGGCTG TGGGCCGGT ATTGTGGGAC CTACTCCTCC ATTTTTTGAC TAC	17	5.8803100 59	IgA1	IgA2	IgA	0
PW3-G12	BASIC	VH3-23	JH4	DH2-2	24	GCGAAAGAT	16	6.7904663	IgG1	IgG1	IgG	6

Table 3.1 – Heavy Chain Repertoire

						CGCGTAGTA CCAACCTCCTC TGCACGGTTA CCTTGACTCC		09				
PW3-G2	BASIC	VH3-23	JH4	DH5-18	26	GCGAAAGAT GCGATAGCG GGACGAGTA TGGTTACAGG GGGCCTTTG ACTCT	17	6.0049438 48	IgA1	IgA1	IgA	24
PW3-G3	BASIC	VH4-59	JH6	DH3-3	22	GGGAGACAA TTTTACGATT CCCATTACTA CTACTACTAC AATATGGACG TC	17	5.2107543 95	IgA1	IgA1	IgA	0
PW3-G4	BASIC	VH3-15	JH1	DH6-13	6	ACGGGGCGC AGCTGGTAC GATTTCTACT TCCAGTAT	12	5.4979858 4	IgA1	IgA1	IgA	0
PW3-G5	BASIC	VH3-23	JH6	DH3-10	19	GGGAAATCTA TAGAAAATAT GGTTCGGGG ACTTCTTATA ACCTCATTTG CCTACTACTT CGCTGTGGA CGTC	24	6.0682983 4	IgA Family	IgA1	IgA	9
PW3-G6	BASIC	VH4-31	JH4	DH5-24	30	GCGAGAGGC CGAGATGCC TACAAGGCC GGCTAC	11	9.6975708 01	IgA Family	IgA2	IgA	0
PW3-G7	BASIC	VH3-48	JH5	DH6-13	13	GCGAGAGGC AGTAGCAGC AGCTGGCAC GGTGGGCTG TGGGCACAC	19	6.9617309 57	IgA Family	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						TGGTTCGACC CC						
PW3-G8	BASIC	VH3-21	JH4	DH3-22	18	GCGAGAGAC TTCTATGATA GTGGTGCTTT TTACCTTTAT TTGACTCC	16	3.9299926 76	IgA1	IgA2	IgA	0
PW3-G9	BASIC	VH4-30-4	JH1	DH1-7	24	CCATAGGAG CCGGCCATC CCATACTGG GAAGGGGAG	12	0	IgA1	IgA1	IgA	0
PW3-H1	BASIC	VH4-39	JH3	DH3-10	17	GTTGGTTCCC AAGCCATTGA TGCTTTTGAT TTC	11	3.5636596 68	IgG3	IgG3	IgG	0
PW3-H10	BASIC	VH3-30-3	JH4	DH4-17	6	TCGAGAGATC AAGGCGGAG ACTACGGTGA TTACGGAGG GGGTTTTGAC TAC	17	3.7694702 15	IgG1	IgG1	IgG	0
PW3-H11	BASIC	VH3-33	JH6	DH3-9	6	GCGAGAGAG TATTACGATG TTTTGACTGG ACCTGAGGA CTACGACTAT GGTATGGAC GTC	20	3.6599731 45	IgG1	IgG1	IgG	0
PW3-H12	BASIC	VH4-39	JH4	DH3-9	13	GCGAAAATA TCGCCCTCTT TGACTCCTAT TTATAC	12	5.8786010 74	IgG1	IgG1	IgG	0
PW3-H3	BASIC	VH1-2	JH4	DH1-14	12	GCGCGAGAT CTAGGAGAC ACCACCACCT CTGACTAC	12	3.9299926 76	IgG1	IgG1	IgG	0
PW3-H4	BASIC	VH3-7	JH3	DH5-18	11	GCGAGGATC	12	5.2123413	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						CCCGGTTAC CATGATGCTT TTGATATC		09				
PW3-H5	BASIC	VH3-23	JH4	DH6-19	8	GCGAAAGATT ACTCACGTAC TATACCATTG GCTGGTTTCC TTGACCAG	16	6.0040893 55	IgG1	IgG1	IgG	0
PW3-H6	BASIC	VH3-49	JH4	DH6-13	10	ACTAGAGACC CACTAGCAG CAGGTGGAG TTCTTTTTGA TTAC	14	4.2064819 34	IgG1	IgG1	IgG	0
PW3-H7	BASIC	VH2-70	JH5	DH4-17	8	GCACGGATG TTATACGGTG ACTCCGTAA CTGTCTCGAC CCC	14	4.2078247 07	IgG1	IgG1	IgG	0
PW3-H8	BASIC	VH3-23	JH4	DH2-2	33	GCGAAAGAT CGCGTTGTAC CAACTGCTCT GCACGGTTA CCTTGACTION	16	6.7904663 09	IgG1	IgG1	IgG	6
PW3-H9	BASIC	VH4-39	JH3	DH5-12	17	GAGGGTGGC TCCGGACTTG ATGCTTTTGC TATC	11	3.6659545 9	IgG1	IgG1	IgG	0
PW4-C10	BASIC	VH3-11	JH6	DH2-15	17	GCGAGAGCC CTACGGTCTT GCAGTAGCA ATAGCTGCCC TGAATCTTAC TACTACTATT ATGGTATGGA CGTC	24	6.0938110 35	IgG1	IgG1	IgG	3
PW4-C11	BASIC	VH3-11	JH6	DH2-2	21	GCGAGAGCC CTGCGAAAGT	24	8.0393676 76	IgG1	IgG1	IgG	3

Table 3.1 – Heavy Chain Repertoire

						GTAGTAGTAA TAGCTGCCCT GAATCTTACT ACTACTATTA TGGCATGGA CGTC						
PW4-C4	BASIC	VH3-23	JH4	DH3-22	35	GTGAAATACG ATAGTAGTGG TTTCGACTAC GCACGGGGG GGTAGAGAG	16	6.2410278 32	IgG1	IgG1	IgG	0
PW4-C6	BASIC	VH3-23	JH3	DH3-10	21	GCGAAGCGC TCAACGTATT ACTTAGATAG AAATGGTCCC AATGATGCTT TTGACATC	19	6.0824584 96	IgG1	IgG1	IgG	0
PW4-C7	Cloning	VH3-15	JH5	DH3-22	17	ACCACAAGGT CGGATTA TGATACTAGT GATTATTCCT TCTTTGACCG C	17	4.1384887 7	IgG1	IgG1	IgG	0
PW4-C8	BASIC	VH3-7	JH3	DH3-9	19	GCGAGAGCG TATGATACCA CTGGTTATTA TAACAATTGG GATATTTTTG ATATC	18	3.9299926 76	IgG1	IgG1	IgG	17
PW4-C9	BASIC	VH3-11	JH6	DH2-2	14	GCGAGAGCC CTACGATATT GTAGTACAAA TAGCTGCCCT GAATCTTACT ACTCCTATTA TGGTATGGAC GTC	24	6.0938110 35	IgG1	IgG1	IgG	3

Table 3.1 – Heavy Chain Repertoire

PW4-D1	BASIC	VH4-38-2	JH4	DH2/OR 15-2a	36	AATTTACGTG CCTTCAGTGG CTTCGATTCC TAC	11	5.8356323 24	IgG1	IgG1	IgG	0
PW4-D10	BASIC	VH3-43D	JH6	DH6-6	17	GCCTCTCAAG AAAAAGAGCT ATGCAGTCAG CAATGA	12	0	IgA1	IgA1	IgA	0
PW4-D11	BASIC	VH3-48	JH3	DH3-10	15	GCGAGAGGA AATCAAGAGG GGGTCGGGG AGTTATCCTC TCAGGGTGTT TTTGATAAT	19	4.1373901 37	IgA1	IgA1	IgA	0
PW4-D12	BASIC	VH4-38-2	JH4	DH4-23	35	GCGAGTCGG TGGGCGAGT ACGAAATACT TCAACTTC	12	9.9949340 82	IgA Family	IgA1	IgA	0
PW4-D2	Cloning	VH4-34	JH4	DH3-16	17	GCGAGAGGC GTTTTGGGG GAGTTGACTG CAATTCATTT TGACTAC	15	5.3222045 9	IgG1	IgG1	IgG	0
PW4-D3	BASIC	VH4-39	JH4	DH3-9	17	GCGAGAGCC TACGGCGTAT TGCGATATTT TGACTGGCAA CCATCTAACT ACTACTTTGA CTTC	21	6.0022583 01	IgG1	IgG1	IgG	0
PW4-D4	Cloning	VH4-59	JH6	DH3-16	27	GCGAGAGCG GATTATGATG TAGAGGGCT ACTTCGGGAT GGACGTG	15	3.8390502 93	IgG1	IgG1	IgG	26
PW4-D5	BASIC	VH1-69	JH4	DH4-17	22	GCGAGAGAA TCTTGGGGT	12	4.1373901 37	unclear	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						GACTACTACT TTGAATAT						
PW4-D6	BASIC	VH5-10-1	JH4	DH1-26	22	GCGAGACTT GCCCATGGG ACTCTTGACT AC	10	6.7882690 43	IgG1	IgG1	IgG	28
PW4-D7	BASIC	VH1-2	JH4	DH3-9	44	GTGAGAGAA GACGTCTTG GATAGTTATT TTGATTAT	12	3.8389282 23	IgG1	IgG1	IgG	0
PW4-D9	BASIC	VH4-34	JH4	DH3-16	12	GCGAGAGGC CCGGCCTAT GACAGTAATG CTTATTTCT GTACTACTTT GACTAT	18	4.2079467 77	IgA1	IgA1	IgA	21
PW4-E1	Cloning	VH3-7	JH4	DH3-22	34	GCGAGAGAG GGCCTAGGG GATTACTATG AGAGTAACTA CTACTTTGAC TAC	17	3.9165649 41	IgA1	IgA1	IgA	0
PW4-E10	BASIC	VH4-34	JH4	DH3-16	12	CTCTGTGACA CTCTCCTGG GAGTTACCC GATTGGAGG GCGTTATCCA CCTTCCA	18	5.3203735 35	IgA1	IgA1	IgA	0
PW4-E2	BASIC	VH3-74	JH4	DH4-23	4	GCAAGAGGA AACGGTGGT AACGTCCCG CCCGACTTC	12	5.8811645 51	IgA Family	IgA1	IgA	0
PW4-E3	BASIC	VH3-66	JH6	DH1-14	0	GCGAGAGAA TCGTGGCAG CTTGGTATAA TGGAGGGGG CTCACTACTA	22	4.6513061 52	IgA1	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						CTACTACGGT ATGGACGTC						
PW4-E4	BASIC	VH3-7	JH3	DH6-19	26	GCGAGAGGC ACTGGCTGG CGTGATCCTT TTGATATG	12	6.0057983 4	IgA1	IgA1	IgA	16
PW4-E5	Cloning	VH3-11	JH5	DH4-17	18	GCGAGAGAT GACTTCGGT GACTACGTCT CTGATTCC	12	3.7697143 55	IgA1	IgA1	IgA	0
PW4-E6	BASIC	VH3-21	JH4	DH5-24	19	GCGAGAGAT GGGGCCAAT AATTCCGGCT TTGAT	11	4.5357055 66	IgA1	IgA1	IgA	0
PW4-E7	BASIC	VH3-23	JH5	DH3-3	6	GCGAAAGAA GGTGGTGATT TTTGGAGTGG TTATTACGCC AACTGGTTCG ACCCC	18	4.0280151 37	IgA1	IgA1	IgA	0
PW4-E8	BASIC	VH4-59	JH5	DH3-16	20	GCGAGAGAC GACCTATGG GAGGGGGAG GACACC	11	3.7691040 04	unclear	IgA1	IgA	0
PW4-E9	BASIC	VH4-38-2	JH4	DH3-10	9	GCGAGGATTT ATATGGTTTCG GGACCTTGA GATATACTAC TTTGACTCC	16	4.5582885 74	IgA1	IgA1	IgA	22
PW4-F1	BASIC	VH3-48	JH6	DH2-15	5	GCGAGAGTA AGATGTAGTG GTGGGAGCT GCTACTCAG GATACTACGG TATGGACGTC	19	8.0737915 04	IgA Family	IgA1	IgA	0
PW4-F10	BASIC	VH4-39	JH5	DH1-26	24	GCGAGAGCT AGGGGGATC	12	9.6436157 23	IgA Family	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						GTGGGCTGG TTCGACCCC						
PW4-F11	BASIC	VH3-49	JH4	DH1-26	25	TCTAGAGGG AGGCAGGAG CTGGGAGCC GGATACTACT TTGACTAC	15	5.7885131 84	IgA Family	IgA2	IgA	0
PW4-F12	BASIC	VH3-30	JH3	DH6-13	33	TGCCAGCTC CTCATTGTGC AGTGGCTCTT GGCCGGCTG ATGCCGCC GGCC	17	0	IgA1	IgA1	IgA	0
PW4-F2	BASIC	VH3-15	JH5	DH3-3	26	ACCACAAGC CAGCCATATC ATCATTACTC TTTTTGGAGT CACTTCGACC CC	17	6.1718139 65	IgA1	IgA1	IgA	0
PW4-F3	BASIC	VH3-30	JH3	DH3-10	19	GCGAAAGATA TCGGATATAT GGTTCAGGC TTTTGATGTC	13	4.2079467 77	IgA1	IgA1	IgA	0
PW4-F4	BASIC	VH3-48	JH4	DH5-24	5	GCGAGAGAT GCTCCTAGA GATCCGGGG TTTGACTAC	12	4.4290161 13	IgA1	IgA1	IgA	0
PW4-F5	BASIC	VH3-7	JH4	DH5-18	13	GCGAGAGGC CAATACGGCT ATGGTTACCC CCACTTTGAC TTC	14	6.7860717 77	IgA Family	IgA1	IgA	0
PW4-F6	BASIC	VH5-51	JH3	DH7-27	10	GCGAGACGA TTACTAACTG GGGATCGAG GTGGTCCTTT TGATTC	15	9.5549926 76	IgA1	IgA2	IgA	0

Table 3.1 – Heavy Chain Repertoire

PW4-F8	BASIC	VH3-23	JH6	DH4-17	43	ACGAAACTGA GGAGTTACG GTGACTCCGT CTTCGGGGG CTCCCCTCAC TACATGGACG CC	20	6.4100952 15	IgG1	IgG1	IgG	0
PW4-G1	BASIC	VH5-51	JH5	DH3-22	19	GTGAGACGA GGTGATAGT GTTGGTCACT TCTACAGCTG GATCGACCC C	16	6.7173461 91	IgA1	IgA1	IgA	0
PW4-G12	BASIC	VH3-23	JH4	DH1-26	24	GCGAAGGAC TTGGGTTTCAG GGAGCTCTG CCTTTGACCA C	13	5.2123413 09	IgA Family	IgA1	IgA	0
PW4-G2	BASIC	VH3-23	JH6	DH3-3	25	GCGAAGAAT CGGCTTCAAT TTTTGGAGTG GTTATCCTCT CTGGACGTC	16	6.1141967 77	IgA Family	IgA1	IgA	0
PW4-H1	BASIC	VH3-23	JH6	DH5/OR 15-5a	15	GCGAAAGTG TCTACGCCG GGATTCTCCT ACTACTACGC TATGGACGTC	16	5.8777465 82	unclear	IgA1	IgA	0
PW4-H10	BASIC	VH4-4	JH4	DH2-2	20	GCGAGAGCC CAGTACCACT TTGACATC	9	6.7882690 43	IgA1	IgA1	IgA	0
PW4-H11	BASIC	VH3-30	JH4	DH6-13	32	GCGAGACGT AGTGTCACT GGTTGTCCTC CCCTGACTAC	13	8.7902221 68	IgA1	IgA1	IgA	0
PW4-H12	Cloning	VH3-9	JH4	DH3-10	14	GCAAAAAGGC TATGGTTCGG	18	6.9568481 45	IgA1	not availabl	IgA	11

Table 3.1 – Heavy Chain Repertoire

						GGAATCATT CCACCTGGC GCCCACTCTT GACTAC				e		
PW4-H2	BASIC	VH3-7	JH4	DH2-8	25	GTGAGGGAT CGGGGTTGT CGAGCTGGT GGCTGTTACC GTGTTTTTGA CTAC	17	8.8986206 05	unclear	IgA1	IgA	18
PW4-H3	BASIC	VH3-21	JH4	DH2-2	16	GCGAGAATC GGAATAGTTC CAGCTGAGC ACTTTGACTT C	13	5.3223266 6	IgA1	IgA1	IgA	0
PW4-H4	Cloning	VH3-9	JH4	DH3-10	21	GCAAAAGGG TATGGTTCGG GGAATTCTTA CCCCCTGGC GCCCACTCTT GACTAC	18	5.8777465 82	IgA1	not availabl e	IgA	11
PW4-H5	BASIC	VH3-23	JH4	DH3-22	13	GCGAAAGTT GGAGTGAGT AGTGGTTTCC ATGGAAGGG CTTACTACTT TGACCAG	18	8.5463256 84	IgA Family	IgA1	IgA	7
PW4-H8	BASIC	VH3-9	JH4	DH3-10	13	GCAAAAGGG TATGGTTCGG GGAATTCTTA CCCCCTGGC GCCCACTCTT GACTAC	18	5.8777465 82	IgA Family	IgA1	IgA	19
PW4-H9	BASIC	VH3-9	JH4	DH3-10	11	GCAAAAGGC TATGGCTCG GGGAGTTCTT ACCCCTGG	18	5.8777465 82	IgA1	IgA1	IgA	19

Table 3.1 – Heavy Chain Repertoire

						CGCCCACTCT TGA CTAC						
PW5-C12	Cloning	VH4-4	JH4	DH2-21	21	GCGAGAGAT TGGGATGAG GGCTCATACT TTGACCAG	12	3.8390502 93	IgA1	IgA1	IgA	0
PW5-D1	BASIC	VH4-59	JH5	DH3-22	22	GCGAGACAC GACGCCGTT CCGTATTTTCG GTCATGGCCT CGACCCC	15	5.9822387 7	IgA1	IgA2	IgA	0
PW5-D10	BASIC	VH3-53	JH4	DH2-15	3	GCGAGAGAT CGGGACTATT GTAGTGGTG GTA ACTGCTA CTCCTACTTT GACTAC	18	4.4290161 13	IgA1	IgA1	IgA	0
PW5-D12	BASIC	VH3-7	JH4	DH3-16	12	GTACAGTTAC GTATGTAC	6	8.7175903 32	IgA1	IgA1	IgA	0
PW5-D2	BASIC	VH3-49	JH4	DH1-1	21	ACCAGACTCC CACGCAACC CCCACAACG ACGGTAACGT CCCATTTGAC TCC	17	6.4109497 07	IgA1	IgA1	IgA	0
PW5-D4	BASIC	VH3-49	JH3	DH1-26	11	GCTAGAGATC CGGGGGGAT TCTATGACAG TTATGGTTTT TACTACCTGG GAGCTTTTGA TATC	21	3.9299926 76	IgA1	IgA1	IgA	0
PW5-D5	BASIC	VH3-23	JH4	DH3-9	28	GCGAAGGAG CCCCATAGC GGCAGTTGG TACCCATATT TTGACTAC	15	5.3222045 9	IgA1	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

PW5-D6	BASIC	VH3-23	JH4	DH3-3	37	GCCAAAGGG TCGGCGAAAT TCAAGTCTCA ACAATTCTTG GCTAGGAGT GGTTATACTC AGCGAAGCC ATTTTGACTT C	26	10.446960 45	IgA1	IgA1	IgA	8
PW5-D7	BASIC	VH4-39	JH5	DH7-27	21	GCGAGACTTA CCTCAACTGG GGTCCACGG GAGGGGCTG GTTCGACCC C	16	9.6489868 16	IgA1	IgA2	IgA	0
PW5-D8	BASIC	VH3-74	JH4	DH1-14	0	GCAAGAGTC CCACGGCGA TCGGAATTTG ACTAC	11	8.7880249 02	IgA Family	IgA2	IgA	0
PW5-D9	BASIC	VH3-23	JH1	DH3-10	10	GCGAAAGAC CCTCCTTATG GTTCGGAGAT CCCCAAGGG GTATTTCCAG CAC	17	6.7931518 55	IgA Family	IgA2	IgA	0
PW5-E1	BASIC	VH3-21	JH6	DH1-1	14	GCGAGAGGA GGGTCCGGG GGCCACAAC TACTACTACG CTTTGGACGT C	16	6.7860717 77	IgA Family	IgA1	IgA	0
PW5-E10	Cloning	VH3-43	JH4	DH3-3	10	GGAAAAGATT TCCGGAGCT ATGAGTGGA GTGGCCTC	12	6.0690307 62	IgG1	IgG1	IgG	0
PW5-E11	BASIC	VH1-46	JH5	DH3-10	30	GCTAGAGATC TGAAAACAAC	21	8.7903442 38	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						TCTGGCTCG GGGACTTGTT TTCGGGCAG AATTGGTTCG ACTCC						
PW5-E2	BASIC	VH3-23	JH6	DH3-10	19	GGGAAATCTA TAGAAAATAT GGTTCGGGG ACTTCTTATC ACTTCATTTG CCTATTATTT CGCTATGGA CGTC	24	6.0682983 4	IgA1	IgA1	IgA	9
PW5-E3	BASIC	VH3-13	JH6	DH3-22	29	CAGAATGACA TCGCTCCAAC TTCTGTTTCA GAACAGCAA CTTCTTCAG	16	3.6659545 9	IgA1	IgA1	IgA	0
PW5-E4	Cloning	VH3-23	JH4	DH2-21	12	GCGAAAGAT GCCATATCG GGACAGATTT GGTTGCAGG GGACCTTTGA CTAC	17	4.2079467 77	IgA1	IgA1	IgA	24
PW5-E5	Cloning	VH3-23	JH4	DH3-9	14	GCGAAAGAT GGGATATCG AGACAGGTCT GGTTACAGG GGACCTTTGA CTCC	17	6.0049438 48	IgA Family	IgA1	IgA	24
PW5-E6	BASIC	VH3-64	JH6	DH1-26	43	TAACAGCCAC TTGTTCTTCA ATAGCCATGG GAGAATACTG TCCTTGCTTC AGCAACT	19	0	IgA1	IgA1	IgA	0
PW5-F1	Cloning	VH3-30	JH4	DH1-1	13	GCGAAAGAT	16	5.2123413	IgG3	IgG3	IgG	0

Table 3.1 – Heavy Chain Repertoire

						CAACACA ACT ATCCCCCTA TAATGGGTAC ATTGACTCC		09				
PW5-F10	BASIC	VH3-30	JH4	DH2/OR 15-2a	11	GCGAAAGAC GGGGTGGT TACGAATATT ATCCGTTCT TGAGTACTAC TTTGACTAC	19	3.9165649 41	IgG1	IgG1	IgG	0
PW5-F11	BASIC	VH3-48	JH4	DH1-1	22	GCGAGAGAT CAACACTTGA ACGACGGGG TCTTTGACTA C	13	4.4133911 13	IgG1	IgG1	IgG	0
PW5-F12	BASIC	VH4-59	JH3	DH6-19	30	GCGAGGACC ATAGCAGTG GCTGGCACTT TTGCTTTTGA TATC	14	5.8811645 51	IgG1	IgG1	IgG	0
PW5-F2	Cloning	VH3-66	JH4	DH3-10	21	GTGGGTCAT CACCCCGG GGAATAATTT TTCTCCAC	12	9.7417602 54	IgG2	IgG2	IgG	0
PW5-F4	BASIC	VH1-18	JH6	DH4-17	10	GCCATGATAA ACATGGTATT TATCAGGGG GGATTTTGCC CTTTATTTAA TTATGGGTAT AAA	21	8.5401000 98	IgG1	IgG1	IgG	0
PW5-F5	Cloning	VH1-3	JH4	DH6-19	29	GCGCGAGAG GGGGGAATG GAAGTGGCT GCCAAATCCC TTGACTAT	15	4.6792602 54	IgG1	IgG1	IgG	0
PW5-F6	BASIC	VH1-46	JH4	DH2-21	23	GCAGTGGTC	15	5.5700073	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						CAGCTTGGC CTCACGCCA CAACAGCCT GTCAGTGGA		24				
PW5-F8	BASIC	VH3-48	JH3	DH3-22	15	GCGAGAGAG TGGGGCGCC GATTAATATG ATACTAGTGG AGATGCTTTT GACATC	18	3.7100219 73	IgG1	IgG1	IgG	0
PW5-F9	BASIC	VH3-30	JH6	DH3-10	20	GCGCGTATG TTCCAATCTT ACGGTATAGA CGTC	11	5.8803100 59	IgG1	IgG1	IgG	10
PW5-G1	BASIC	VH3-30	JH6	DH3-10	18	GCGCGTATG TTCCAATCCT ACGGTATAGA CGTC	11	5.8803100 59	IgG1	IgG1	IgG	10
PW5-G11	BASIC	VH3-64	JH6	DH3-3	27	GCGAAAGGA GGTTACGATG ACTACTACTA CCTCGCTATG GACGTC	15	3.9299926 76	IgA Family	IgA1	IgA	0
PW5-G12	BASIC	VH3-74	JH4	DH7-27	17	ACAAGAGACT ACTGGGGAT CCCTTGAGTA C	10	4.3682250 98	IgA1	IgA2	IgA	0
PW5-G2	BASIC	VH3-48	JH4	DH1-26	13	GTGAGGAAA CCTAATAGTG GATCTTATTA TGTCCTTCCC CCTTTTGACT AC	17	8.4014282 23	IgG1	IgG1	IgG	0
PW5-G3	BASIC	VH4-39	JH4	DH6-19	4	GCGAGACAT CGCCCGCCG TATAGCAGTG GCTGGTACTC	20	8.4269409 18	IgG Family	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						TTGGATTTAC TACTTTGACT AC						
PW5-G4	BASIC	VH4-61	JH3	DH6-19	18	GCGAGAACA ATAGCAGTG GCTGGTACAT TCGCTTTTGA TATC	14	5.8811645 51	IgG1	IgG1	IgG	0
PW5-G5	Cloning	VH3-23	JH3	DH3-22	29	GCGAAAGAT CACATCGCCT ACAACAGAAA CTATGATGCT TTTGATCTC	16	5.2988891 6	IgA1	IgA1	IgA	0
PW5-H1	BASIC	VH4-34	JH3	DH2-2	25	GCGCGAGAG CGCGGCAAT AGTAGTAGTT GGGGTACTTT TGATATC	15	6.1150512 7	IgA1	IgA1	IgA	0
PW5-H12	BASIC	VH3-9	JH4	DH3-10	6	GCAAAAGGC TATGGTTCGG GGAATTATTA CCCCCTGGC GCCCACTCTT GACTAC	18	5.8768920 9	IgA1	IgA1	IgA	19
PW5-H2	BASIC	VH3-53	JH4	DH1-1	20	GGGAGAGAC ACCCACTCG CCTCAGCGTA GCGACAAC	12	6.7479858 4	IgA1	IgA2	IgA	0
PW5-H3	BASIC	VH3-30	JH4	DH6-13	37	GCTCTGGGC GGCAGCACC TCCACCCCA ACTTTGACTT C	13	3.7998657 23	IgA Family	IgA1	IgA	0
PW5-H4	BASIC	VH4-59	JH4	DH5-12	21	GCGAGAGAC CCTAATAGTG GCTGGCTTG ACTCC	11	4.2079467 77	IgA1	IgA2	IgA	0

Table 3.1 – Heavy Chain Repertoire

PW5-H5	BASIC	VH3-23	JH4	DH6-6	49	GTGAGGTTTG ACGACCTTCA CTTTGGCTCG TCGTCCTACT TTGACTCA	16	4.4132690 43	IgA1	IgA1	IgA	0
PW5-H6	BASIC	VH3-15	JH5	DH1-1	15	ATCACACCTT TCTGGAACC GGCGACCTG CCCTGTCCG ACCCC	14	9.5986938 48	IgA1	IgA2	IgA	0
PW5-H7	BASIC	VH3-21	JH4	DH1-14	21	GCGAGAGAT TGGGATAACC CGGAAGTTTG ACTAC	11	6.0833129 88	IgA Family	IgA2	IgA	0
PW5-H8	Cloning	VH3-7	JH4	DH2-8	14	GCGACCGGG AATTTTCATG ATGCTAGTTT TAGCCAGGG AGTG	14	5.0781860 35	IgA Family	IgA1	IgA	0
PW5-H9	BASIC	VH3-9	JH4	DH3-10	7	GCAAAAGGC TATGGTTCGG GGAATTATTA CCCCCTGGC GCCCACTCTT GACTAC	18	5.8768920 9	IgA1	IgA1	IgA	19
PW6-D10	BASIC	VH4-59	JH4	DH6-13	16	GCGAGAGGG GGGGTCGAC CCGTATACCA GCAGCTGGT ACTATTTTGA CTAC	17	4.2079467 77	IgA Family	IgA1	IgA	0
PW6-D12	BASIC	VH3-64D	JH4	DH2-8	8	GTAAAAGGGT ACTTCTTTGA CGAC	8	4.5354614 26	IgA1	IgA1	IgA	15
PW6-D2	BASIC	VH3-11	JH6	DH3-10	11	ACTCTGCCTC CCTCACCATC TCTGGACTGA	14	0	IgA1	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						AGACTGAGG ACG						
PW6-D3	BASIC	VH3-11	JH6	DH3-10	22	GCGGCGGGT TCGGGGACT TATGACTATT ACGGTCTGG ACGTC	14	3.5636596 68	IgA1	IgA1	IgA	2
PW6-D4	BASIC	VH3-11	JH6	DH3-10	16	GCGGCGGGT TCGGGGAGT TATTCCTACC ACGGTTTGGGA CGTC	14	5.0781860 35	IgA1	IgA1	IgA	2
PW6-D5	BASIC	VH3-23	JH4	DH6-19	33	GCGAAGACG CAAGGCAGT GGCTATTTCA TGCACTAC	12	8.5470581 05	IgA Family	IgA1	IgA	5
PW6-D6	BASIC	VH3-11	JH6	DH3-10	12	GCGGCGGGT TCGGGGAGT TATACTACC ACGGTTTGGGA CGTC	14	5.0781860 35	IgA1	IgA1	IgA	2
PW6-D7	BASIC	VH3-23	JH4	DH6-19	36	GCGAAAACG CAAGGCAGT GGCTATTTCA TGCACTAT	12	8.5470581 05	IgA1	IgA1	IgA	5
PW6-D9	BASIC	VH3-30-3	JH6	DH3-9	15	TCGAGAGAG TATTACGACA TTTTGACTGG ACCTGAGGA CTACGACTAC GGTATGGAC GTC	20	3.6598510 74	IgA1	IgA1	IgA	13
PW6-E1	BASIC	VH3-74	JH6	DH1-1	11	GCAAGAGAT CCGGGAGGT ACCAGTGGA ACGGGACCC TACAACACT	20	4.2079467 77	IgA1	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						ACGGTATGG ACGTC						
PW6-E10	BASIC	VH3-33	JH6	DH3-16	12	GCGAGAGAG GGTCCC GTT GATTATGGGA TGGACGTC	12	4.0280151 37	IgG1	IgG1	IgG	0
PW6-E12	BASIC	VH3-30-3	JH6	DH3-9	21	GCGAGAGAG TTTTACGATT CTTTGACTGG ACCTGTGAC TACGACTACG GTATGGACGT C	20	3.7100219 73	IgG1	IgG1	IgG	13
PW6-E4	BASIC	VH3-30-3	JH6	DH3-9	17	GCGAGAGAG TATTACGATA CTTTGACTGG ACCTGTGGA CTACGACTAC GGTATGGAC GTC	20	3.7100219 73	IgG1	IgG1	IgG	13
PW6-E5	BASIC	VH3-30	JH6	DH3-3	17	GCGAGAGAA AGGGATGTTA TTACGGTTTT TGGAGTGGA CCGCCCTTAC GACTACGGTA TGGACGTC	22	4.3600463 87	IgG1	IgG1	IgG	0
PW6-E6	BASIC	VH4-39	JH3	DH6-13	31	GCGAGCGGC AGCTTTGATG CTTTTCATAT C	10	5.0781860 35	IgG Family	IgG3	IgG	0
PW6-E8	BASIC	VH3-30-3	JH6	DH3-9	29	GCAAGAGAG TATTACGATA CTTTGACTGG ACCTGTGGA CTACGATTAC GGAATGGAC	20	3.7100219 73	IgG1	IgG1	IgG	13

Table 3.1 – Heavy Chain Repertoire

						GTC						
PW6-E9	BASIC	VH3-49	JH4	DH3-22	20	GCCTATGATA GTAGTGGTG CGACAGACAT CGTTCTTGCG GACCAC	15	3.9259643 55	IgG1	IgG1	IgG	0
PW6-F1	BASIC	VH3-23	JH4	DH3-3	10	GCGAAAGAT CCCATTACGT TTTTGGAGT GATTTATGAC TCC	14	4.2079467 77	IgG1	IgG1	IgG	0
PW6-F10	BASIC	VH3-30	JH5	DH6-19	29	AATGGGGGC TTCAATCGGG AGTACTACTC GATTGTCAAC GTCAAG	15	8.4967651 37	IgA Family	IgA2	IgA	0
PW6-F11	BASIC	VH3-30	JH4	DH1-26	12	GCGAAGGAT CGGGGGAAG TATAGTGGAA GCTTGGGGC TTGACTAC	15	8.4732055 66	IgA1	IgA1	IgA	0
PW6-F12	BASIC	VH3-21	JH6	DH3-10	28	ACGAGAGAC GACGCCTAC GGTGGCCCC AATTGGTATT ACTACTACCC TATGGACGTC	19	3.9295043 95	IgA Family	IgA2	IgA	0
PW6-F5	BASIC	VH4-39	JH4	DH2-21	13	GCGAAATGG GACTCCCGT GACTTACTTG ACTAC	11	4.4290161 13	unclear	IgG1	IgG	0
PW6-F6	BASIC	VH3-21	JH4	DH4-23	16	GCGAGACAT CATCTCTCGT CGGTCTTAAC TCCG	11	9.8056030 27	IgG1	IgG1	IgG	0
PW6-F7	BASIC	VH3-30	JH6	DH5-24	12	GCGAAAGTA GGGGGGTGG	14	4.3703002 93	IgG1	IgG1	IgG	0

Table 3.1 – Heavy Chain Repertoire

						CTCCTCACGA ACGAGATGG ACGTC						
PW6-F8	BASIC	VH3-30-3	JH6	DH3-9	18	GCGAGAGAG TATTACGATG TTTTGACTGG ACCTGTGGA CTACGACTAC GGTATGGAC GTC	20	3.7100219 73	unclear	IgG1	IgG	13
PW6-F9	BASIC	VH3-73	JH4	DH2-15	6	ACTAGCCACC CTCCTAAGAA TCCAGATTAT TGTAGTGGTG GAAACTGCTA CCCGGCGGA CTTTGACTAC	23	4.4115600 59	IgA Family	IgA2	IgA	0
PW6-G1	BASIC	VH3-30	JH4	DH4-17	16	CTACAAACTC CTCCCACTTT TGGCCAGGG GACCAAGCT GGAGATCAAA CGAACT	18	9.9943237 3	IgA Family	IgA1	IgA	0
PW6-G10	Cloning	VH3-53	JH6	DH2/OR 15-2a	19	GCGCGAGAC CGATATCATG ATGCTAGCG GTTACTACTA CTACnot availableCTAT GGGATGGAC GTC	20	5.2988891 6	IgA Family	IgA1	IgA	0
PW6-G11	BASIC	VH4-34	JH6	DH3-10	20	GCGAGAGGC CTTCCGGTTA ACATGGTTCG GGGAGTTCA AAGGGCCTA CCAGGATATG	21	8.7879028 32	IgA1	IgA1	IgA	0

Table 3.1 – Heavy Chain Repertoire

						GACGTC						
PW6-G12	BASIC	VH4-4	JH2	DH3-16	20	GCGAGAGCC GTGTATCATT ATGTTAGTGA TGGTTTGGGT GAAGAATACT TCGATCTC	19	4.3082885 74	IgA Family	IgA1	IgA	0
PW6-G2	BASIC	VH3-23	JH4	DH3-9	26	GCGAAAGAC CGGGGTGGT TATCTACATT CATATTTTGA CAAC	14	6.7893676 76	IgA1	IgA1	IgA	0
PW6-G4	BASIC	VH3-15	JH4	DH2/OR 15-2a	23	ACCACGGGT TCGAATTTTG GAATTGTAAC GACCGCCGA AGACTAC	15	3.6655883 79	IgA Family	IgA2	IgA	0
PW6-G6	BASIC	VH3-23	JH4	DH7-27	16	GCGAAATCTC TGGGTCGCG ACTTCGCCCT CCTGTTTGAC TTC	14	6.0049438 48	IgA1	IgA1	IgA	0
PW6-G7	BASIC	VH3-33	JH6	DH3/OR 15-3a	13	GTGAGAGAT CTGGATGAG GTGGACTACT ACTACATGGA CGTG	14	3.7100219 73	unclear	IgA Family	IgA	0
PW6-G9	BASIC	VH4-59	JH4	DH2/OR 15-2a	16	GCGAGAGGG GGTCCGGAC GATGGTAATT GGAAGTACTA CATTGACTTC	16	4.4290161 13	unclear	IgA1	IgA	0
PW6-H5	BASIC	VH3-64D	JH3	DH5-12	9	GTGAAAGTCC GGGTGACGT CTAGTGCCTA CGATTTACCC CATGTC	15	8.5687866 21	IgA Family	IgA2	IgA	0

Table 3.1 – Heavy Chain Repertoire

PW6-H6	BASIC	VH3-48	JH3	DH6-19	14	GCGAGTGGC TGCAGTAGTA TTAGTTGTTA TATGCCCAGT GATGGTTTTG ATATC	18	3.5636596 68	IgA1	IgA1	IgA	0
PW6-H7	BASIC	VH3-9	JH4	DH3-10	14	GCAAAAGGC TATGGTTCGG GGAATTCTTA CCCCCTGGC GCCCACTCTT GACTAC	18	5.8777465 82	IgA1	IgA1	IgA	19
PW6-H8	BASIC	VH3-9	JH4	DH3-10	16	GCAAAAGGC TATGGTTCGG GGAATCATT CCCCCTGGC GCCCACTCTT GACTAC	18	6.7849731 45	IgA1	IgA1	IgA	19