

Table 3. 2 – Light Chain repertoire

	LC.Seq. Source	V.locus	J.locus	IgBLAST mutation count	CDR3.DNA	CDR3. length	CDR3. isoelectric.point	Isotype
PW2-A1	BASIC	VK1-5	JK4	3	CAACAGTATACT GATTATGTCACT	8	3.799865723	Kappa
PW2-A10	BASIC	VL3-21	JL3	14	CAGGTGTGGGA TACTAGTCGTGA TCATCAGGTG	11	5.210876465	Lambda
PW2-A11	BASIC	VK1-5	JK1	12	CAACAGTATAAC AGATATCCGTG GACG	9	8.589660645	Kappa
PW2-A12	BASIC	VL1-40	JL1	5	CAGTCGTATGAC AGCAGCCTGAG TGGTTTTTATGT C	12	3.799865723	Lambda
PW2-A2	BASIC	VL3-25	JL3	16	CAATCAGCAGA CAGCAGAGGTA CTTTTCGGGTG	11	9.598693848	Lambda
PW2-A3	BASIC	VL1-40	JL1	9	CAGTCGTTTGAC GCCTATTTGAGT GATTCGAATGTC	12	3.563659668	Lambda
PW2-A4	BASIC	VL3-21	JL3	11	CAGGTGTGGGA TAGCAGTAGTGA TTGGGTG----TT	12	3.563659668	Lambda
PW2-A5	BASIC	VL3-25	JL3	11	CAATCAGCAGG CAACAGTGCTAC TTGGG-----TG	12	5.524963379	Lambda
PW2-A6	BASIC	VK1-39	JK4	18	CAACAGAGTTAC AGTTCCATCACT	8	5.524353027	Kappa
PW2-A7	BASIC	VL3-1	JL1	23	CAGGTGTGGGA CACCAGCGCCA GCGCACATGTC	11	5.076721191	Lambda
PW2-A8	BASIC	VL2-14	JL3	9	TGCTCATATGCA GACAGCGCCAC TCGGGTG	10	5.828674316	Lambda
PW2-B1	BASIC	VK1-39	JK4	16	CAACAGAGTTAC	9	6.74017334	Kappa

Table 3. 2 – Light Chain repertoire

					AGTCACTTTCTC ACT			
PW2-B10	BASIC	VL3-21	JL3	8	CAGGTGTGGGA TAGTAGTAGTGA TCATCCGGTG	11	4.196716309	Lambda
PW2-B11	BASIC	VK3-11	JK3	10	CAGCAGCGTGT CAACTGGCCCT CGGGATTCACT	11	9.750061035	Kappa
PW2-B12	BASIC	VK1D- 12	JK5	26	CAACAGGCTAA CAGTTTCCCGAT CACC	9	5.524963379	Kappa
PW2-B2	BASIC	VL2-11	JL3	6	TGCTCATATGCA GGCAGCTACAC TTGGGTG-----	12	5.516784668	Lambda
PW2-B3	BASIC	VK1-39	JK4	13	CAACAGAGTTAC AGTTCCATCACT	8	5.524353027	Kappa
PW2-B4	BASIC	VK3-11	JK4	24	CAGCAGCGTAG CCACTGGCTCT CTTTC---	10	9.756530762	Kappa
PW2-B6	BASIC	VK3-11	JK3	8	CAGCAGCGTGT CAACTGGCCCT CGGGATTCACT	11	9.750061035	Kappa
PW2-B7	BASIC	VK3-11	JK3	8	CAGCAGCGTGT CAACTGGCCCT CGGGATTCACT	11	9.750061035	Kappa
PW2-B8	BASIC	VK3-11	JK3	10	CAGCAGCGTGT CAACTGGCCCT CGGGATTCACT	11	9.750061035	Kappa
PW2-B9	BASIC	VK3-11	JK3	9	CAGCAGCGTGT CAACTGGCCCT CGGGATTCACT	11	9.750061035	Kappa
PW2-C1	BASIC	VK1D- 12	JK5	11	CAACAGGCTAA CAGTTTCCCGAT CACT	9	5.524963379	Kappa
PW2- C11	BASIC	VL3-1	JL1	13	CAGGCGTGGGA CAGCAGCACTG	9	3.799865723	Lambda

Table 3. 2 – Light Chain repertoire

					CAGTC			
PW2-C12	BASIC	VL3-1	JL1	21	CAGGCGTGGGA CAGGAACAATG CTGTC	9	5.836364746	Lambda
PW2-C2	BASIC	VK1D-12	JK5	8	CAACAGGCTAA CAGTTTCCCGAT CACC	9	5.524963379	Kappa
PW2-C3	BASIC	VK1D-12	JK5	8	CAACAGGCTAA CAGTTTCCCGAT CACC	9	5.524963379	Kappa
PW2-C4	BASIC	VK1D-12	JK5	12	CAACAGGCTAA CAGTTTCCCGAT CACC	9	5.524963379	Kappa
PW2-C5	BASIC	VK3-11	JK3	12	CAGCAGGGTGT CAACTGGCCCT CGGGATTCACT	11	5.524963379	Kappa
PW2-C6	BASIC	VK3-11	JK3	10	CAGCAGCGTGT CAACTGGCCCT CGGGATTCACT	11	9.750061035	Kappa
PW2-C7	BASIC	VK3-11	JK3	13	CAGCAGGGTGT CAACTGGCCCT CGGGATTCACT	11	5.524963379	Kappa
PW2-C8	BASIC	VK1D-12	JK5	3	CAACAGGCTGA CAGTTTCCCGAT CACC	9	3.799865723	Kappa
PW2-C9	BASIC	VK1-12	JK5	17	CAACAGGCTAA CAGTTTCCCGAT CACC	9	5.524963379	Kappa
PW2-D1	BASIC	VK1-6	JK4	10	CTACAAGATCAC AGTTACCCGCTC ACT	9	5.076721191	Kappa
PW2-D11	BASIC	VK1-39	JK2	16	CAACAGAGTTAC AGTACCCCTCG GACT	9	8.747619629	Kappa
PW2-D12	BASIC	VK1-39	JK1	24	CAACAGAGTTAC ATTTTACCTAGA	9	8.747619629	Kappa

Table 3. 2 – Light Chain repertoire

					ACC			
PW2-D2	BASIC	VL1-44	JL3	15	TCATCATGGGAT GCCAACGTGAA TGGTCCGGTG	11	3.799255371	Lambda
PW2-D3	BASIC	VL1-44	JL3	11	TCAACATGGGAT GACGGCCTGAA TGGTTGGG---- TGTT	13	3.563415527	Lambda
PW2-D4	BASIC	VK3-20	JK3	13	CAGCACTATGG GGGCTCACGGG AATTCACT	10	6.748718262	Kappa
PW2-D5	BASIC	VL2-8	JL2	11	AGTTCATACGGC GGCAACGCTAA TGTCTTA	10	5.239807129	Lambda
PW2-D6	BASIC	VK3-11	JK4	9	CTGCAGCGTGA CAACTGGCCGC TCACT	9	5.836364746	Kappa
PW2-D7	BASIC	VL2-11	JL2	5	TGCTCATATGCA GGCAGTTACACT TTCGTGGTA	11	5.516784668	Lambda
PW2-D8	BASIC	VL7-43	JL3	2	CTGCTCTATTAT GGTGGTGGTTG GGTG	9	5.523620605	Lambda
PW2-D9	BASIC	VL7-43	JL3	3	CTGCTCTATTAC GGTGGTGGTTG GGTG	9	5.523620605	Lambda
PW2-E1	BASIC	VL2-18	JL1	16	AGCTCACATACA AGCAGCAGTCTT TATGTC	10	6.456115723	Lambda
PW2-E10	BASIC	VL3-21	JL2	16	CAGGTGTGGGA TATTAGTGGTGA ACATGTGGT---- TTT	13	4.353088379	Lambda
PW2-E11	BASIC	VL3-21	JL2	13	CAGGTGTGGGA TGTTAGTGGTGA TCATCTGGTA	11	4.196716309	Lambda

Table 3. 2 – Light Chain repertoire

PW2-E12	BASIC	VK2-30	JK2	5	ATGCAAGGTACA CACTGGCCGTA CACT	9	6.491027832	Kappa
PW2-E2	BASIC	VL1-40	JL3	10	CAGTCGTATGAC AGGGTGAGTGG TCCTGTGGTG	11	5.835632324	Lambda
PW2-E3	BASIC	VL3-25	JL3	10	CAATCAGCTGAC AGCCGTGGTAC TTTTCGAGTG	11	9.598693848	Lambda
PW2-E4	BASIC	VK2-30	JK2	9	ATGCAAGGTACA CACTGGCCGTA CACT	9	6.491027832	Kappa
PW2-E5	BASIC	VK3-11	JK3	10	CAGCAGCATCA CAACTGGGATG TCACT	9	5.968811035	Kappa
PW2-E6	BASIC	VL1-44	JL3	7	GCAACATGGGA TGACAGCCTGG ATGGTTGGGT---- GTT	13	3.422790527	Lambda
PW2-E7	BASIC	VL3-1	JL1	9	CAGGCGTGGGA CAGGAGCACTC ATTATGTC	10	6.743591309	Lambda
PW2-E8	BASIC	VK1-5	JK2	10	CAACACTATGCT AATTATTTGTAC ACT	9	6.738342285	Kappa
PW2-E9	BASIC	VL3-21	JL2	15	CAGGTGTGGGA TATTAGTGGTGA TCATGTGGTT---- TT	13	4.196716309	Lambda
PW2-F1	BASIC	VL3-21	JL2	11	CAGGTGTGGGA TGTTAGTGGTGA TCATCTGGTA	11	4.196716309	Lambda
PW2-F11	BASIC	VL3-21	JL2	13	CAGGTGTGGGA TATTAGTGGTGA TCATGTGGTT---- TT	13	4.196716309	Lambda

Table 3. 2 – Light Chain repertoire

PW2-F12	BASIC	VK3-20	JK2	4	ATGCAAGGTACA CACTGGCCCTA CAGT	9	6.491027832	Kappa
PW2-F2	Cloning	VL3-25	JL2	47	CATTAAACAGAN NNCAGTGGTAC NNTNTTN	10	0	Lambda
PW2-F3	BASIC	VL1-51	JL1	13	GGAACATGGGA TAGCAGCCTGA GTGTTTATGTC	11	3.799865723	Lambda
PW2-F4	BASIC	VL3-21	JL2	11	CAGGTGTGGGA TGTTAGTGGTGA TCATCTGGTA	11	4.196716309	Lambda
PW2-F5	BASIC	VK1-39	JK3	23	CAACAGAGTTAC GGTCCCCTATC AGT	9	5.524353027	Kappa
PW2-F6	BASIC	VK1-12	JK1	10	CAACAGGCTAA CAGTTTCCGGT GGACG	9	9.750061035	Kappa
PW2-F7	BASIC	VK1-39	JK4	15	CAGCAGAGTTA CACAACCCCTC CACTCACC	10	5.524353027	Kappa
PW2-F8	BASIC	VK1-5	JK2	13	CAACAGTATAGG AGTTATCCTCTG ACT	9	8.589660645	Kappa
PW2-F9	BASIC	VL3-19	JL2	16	TGCTCCCGGGA CACCACCGAGA ACCACCATGTG GTT	12	5.99041748	Lambda
PW2-G1	BASIC	VL1-40	JL3	9	CAGTCTTATGAC TCCAGCCTGGG TGGTTCGGTG	11	3.799865723	Lambda
PW2-G10	BASIC	VK3-20	JK4	1	CAGCAGTATGG TAGCTCACCTTT CACT	9	5.524353027	Kappa
PW2-G11	BASIC	VL2-14	JL3	3	AGCTCATATACA AGCAACTCTT	10	5.239807129	Lambda

Table 3. 2 – Light Chain repertoire

					TGGGTG			
PW2-G12	BASIC	VK3-20	JK4	6	CAGCAATATGGT AGCTCTCCCATC ACT	9	5.524353027	Kappa
PW2-G2	BASIC	VL6-57	JL3	15	CAGTCTTTTGTT GGCAGTCTTTG GCTG	9	5.524963379	Lambda
PW2-G3	BASIC	VL1-40	JL3	23	CAGTCTTATGAC ACCAGTCTGGG TGGTTCGGTG	11	3.799865723	Lambda
PW2-G4	BASIC	VK4-1	JK2	14	CAGCAATATTAC AGTACTCCGTTC ACT	9	5.523620605	Kappa
PW2-G6	BASIC	VL3-1	JL2	23	CAGGCGTGGGA TCGCACCACTGT GAT-----A	11	5.836364746	Lambda
PW2-G7	BASIC	VL1-40	JL3	17	CAGTCCTATGAC AGCAGCCTGAG TGGTTCCTGGG TG	12	3.799865723	Lambda
PW2-G8	BASIC	VL2-23	JL3	30	TGCTCATATGTG CATCCTGACAGT TTCAAG	10	6.733581543	Lambda
PW2-G9	BASIC	VL1-44	JL3	5	GCAGCATGGGA TGACAGCCTGA ATGGTTGGGT---- GTT	13	3.563659668	Lambda
PW2-H1	BASIC	VL2-23	JL3	18	TGCTCATTTGCA GGTCGTAATACT TGGGTTT-----	12	8.249694824	Lambda
PW2-H2	BASIC	VK3-11	JK4	10	CAGCAGCGTAG CGACTGGCCTC TCGCT	9	5.836364746	Kappa
PW2-H3	BASIC	VK1-17	JK1	11	CTGCAGCATAAT TCTTTCCCGTGG ACG	9	6.741149902	Kappa

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PW2-H4	BASIC	VK3-11	JK5	3	CAGCAGCGTAG GAACTGGCCCA TCACC	9	12.00006104	Kappa
PW2-H5	BASIC	VL1-47	JL3	12	GCAACATGGGA TGACAGCCTGC GTGGTTGGG---- TGTT	13	4.207946777	Lambda
PW3-A1	BASIC	VL1-40	JL2	9	CAGTCCTATGAC AGCAGCCTGAC TAATTCGATA	11	3.799865723	Lambda
PW3-A10	BASIC	VK2-30	JK2	14	ATGCAAGCTACA TACTGGCCGTA CACT	9	5.274597168	Kappa
PW3-A11	BASIC	VK3-11	JK5	5	CAGCAGCGTAG CAACTGGCCTC CGATCACC	10	9.750061035	Kappa
PW3-A12	BASIC	VK1-39	JK1	8	CAACACAGTTAC AATACCCCTCG GACG	9	8.754821777	Kappa
PW3-A2	BASIC	VL6-57	JL3	20	CAGTCTTATGAT ACCGGCCTTTG GGTG	9	3.799865723	Lambda
PW3-A3	BASIC	VK4-1	JK4	4	CAGCAATATTAT ACTACTCTGCGC ACT	9	8.589660645	Kappa
PW3-A4	BASIC	VL6-57	JL3	20	CAGTCTTATGAT ACCGGCCTTTG GGTG	9	3.799865723	Lambda
PW3-A5	BASIC	VL6-57	JL3	19	CAGTCTTATGAT ACCGGCCTTTG GGTG	9	3.799865723	Lambda
PW3-A6	BASIC	VK3-20	JK2	9	CAGCAGTATGG TGGCTCACCGT ACACC	9	5.523620605	Kappa
PW3-A7	BASIC	VL2-18	JL3	6	ATTTTCATATACG AGCAGCAGCAC	12	5.524353027	Lambda

Table 3. 2 – Light Chain repertoire

					TTGGG-----TG			
PW3-A8	BASIC	VK3-15	JK3	2	CAGCAGTATAAT AACTGGCCCCG ATTCACC	10	8.747619629	Kappa
PW3-A9	BASIC	VL3-9	JL3	14	CAGGTGCGCGA CAGCGGCACTT GGG----TGTT	11	5.836364746	Lambda
PW3-B1	BASIC	VL3-9	JL3	11	CAGGTGTGGGA CAGCAGCTCTT GGGTG----TT	11	3.799865723	Lambda
PW3-B10	BASIC	VL2-14	JL2	10	AGCTCATATAGA ATCACCACCACT CTTGTGGTA	11	8.46282959	Lambda
PW3-B11	BASIC	VL2-14	JL2	12	AGCGCATATAGA AGCAGCAGCAC TCTTGTGGTA	11	8.46282959	Lambda
PW3-B12	BASIC	VL1-40	JL2	7	CAGTCCTATGAC AGCAGCCTGAG TGGTTCGCTT	11	3.799865723	Lambda
PW3-B3	BASIC	VL2-14	JL2	8	AGCTCATATAGA ATCAGTAGCACT CTTGTGGTC	11	8.46282959	Lambda
PW3-B4	BASIC	VL2-14	JL3	8	TGCTCATATAGA AGCAGCACCACT TCTTGTGGTG	11	8.221984863	Lambda
PW3-B5	BASIC	VL1-44	JL1	3	GAAGCATGGGA TGACAGCCTGA AGGAGGTT	10	3.916564941	Lambda
PW3-B6	BASIC	VL7-46	JL3	10	TTGGTCTCTTAT ACTCTTGGTCG GCCGGTG	10	8.747619629	Lambda
PW3-B7	BASIC	VK1-39	JK2	24	CAACACGGTCA CATAGGTCCGT CCACT	9	6.917663574	Kappa
PW3-B8	BASIC	VL1-40	JL3	2	CAGTCCTATGAC AGCAGCCTGAG	13	3.799865723	Lambda

Table 3. 2 – Light Chain repertoire

					TGGTTGGGT----- G			
PW3-B9	BASIC	VK3-15	JK3	5	CAGCAGTATAAT AACTGGCCTATA TTCCT	10	5.524353027	Kappa
PW3-C10	BASIC	VL1-47	JL3	11	GCAGCATGGGA TGACAACCTGA GTGGTCTGCTG	11	3.563659668	Lambda
PW3-C12	BASIC	VK1-17	JK1	3		0	0	Kappa
PW3-C2	BASIC	VL1-40	JL3	9	CAGACCTATGAC AGCAGGCTGAG TGCTTGG----- GTG	13	5.835632324	Lambda
PW3-C3	BASIC	VL2-14	JL2	10	AGCTCATATAGA AGCAGCAGCAC TCTTGTGATA	11	8.46282959	Lambda
PW3-C5	BASIC	VL2-14	JL2	11	AGCGCATATAGA AGCAGCAGCAC TCTTGTGGTA	11	8.46282959	Lambda
PW3-C6	BASIC	VL2-14	JL2	12	AGCTCATATAGA GTCAGCAACACT CTTGTGGTA	11	8.46282959	Lambda
PW3-C9	BASIC	VK3-15	JK4	1	CAGCAGTATAAT AACTGGCCTCC GCTCACT	10	5.524353027	Kappa
PW3-D1	BASIC	VL3-21	JL2	8	CAGGTGTGGCA TCGTTATAGTGA TCATATGATA	11	6.918395996	Lambda
PW3-D10	BASIC	VK2-28	JK2	7	ATGCAAGCTCTA CAAACCCCGTTC ACC	9	5.274963379	Kappa
PW3-D11	BASIC	VK2-28	JK2	7	ATGCAAGCTCTA CAAACCTCCGTTC ACT	9	5.274963379	Kappa
PW3-	BASIC	VK1-39	JK2	14	CAACAGGCTTAC	9	8.747619629	Kappa

Table 3. 2 – Light Chain repertoire

D12					AGAAGTTCGTCT ACT			
PW3-D2	BASIC	VK1-17	JK1	5	CTACAGCATAAT AGTTACCCCCG GACG	9	8.754821777	Kappa
PW3-D4	BASIC	VL3-9	JL3	12	CAGGTGTGGGA CAGCAGTTCTTA TTGGGTG	10	3.799865723	Lambda
PW3-D5	BASIC	VL3-21	JL3	9	CAGGTGTGGGA AACTGGAAGTG ATCATTGGG---- TGTT	13	4.353088379	Lambda
PW3-D6	BASIC	VL3-21	JL2	9	CAACTGTGGGA TGTTGGTAGTG ATAATTCGGGG GTA	12	3.563659668	Lambda
PW3-D9	BASIC	VK1-39	JK2	20	CAACAGGGTTA CAGAACCCCGT CTACT	9	8.747619629	Kappa
PW3-E1	BASIC	VL2-8	JL2	1	AGCTCATATGCA GGCAGCAACAA TGT----GGTATT	12	5.239807129	Lambda
PW3-E3	BASIC	VK3-15	JK1	8	CAGCAGTATAAC CGGCGGAGTTC G	8	10.83502197	Kappa
PW3-E4	BASIC	VK1-39	JK2	16	CAACAGGCTTAC AGAGCCTCGTC TACT	9	8.747619629	Kappa
PW3-E7	BASIC	VK3-11	JK1	7	CAGCAGCGTAG CGAGTGGCCTC GAACG	9	9.598815918	Kappa
PW3-E9	BASIC	VK1-39	JK2	13	CAGCAGGGTTA CAGAGCCCCGT CCACT	9	8.747619629	Kappa
PW3-F10	BASIC	VK3-11	JK1	24	CAGCAGCGAAG CAACTGGCCTCT	9	9.750061035	Kappa

Table 3. 2 – Light Chain repertoire

					CACG			
PW3-F11	BASIC	VL1-44	JL2	13	GCAACTTGGGA TGACAGTCTAAA TGGTGCGATC	11	3.563659668	Lambda
PW3-F12	BASIC	VK2-28	JK2	3	ATGCAAGTTCTA CAAACCTGCTCC GTACACT	10	5.274719238	Kappa
PW3-F2	BASIC	VK3-15	JK2	13	CAGCAGTATAAT TACTGGCCTTAC ACT	9	5.522888184	Kappa
PW3-F3	BASIC	VK1-39	JK2	14	CAACAGGGTTA CAGAACCCCGT CCACT	9	8.747619629	Kappa
PW3-F4	BASIC	VK1-5	JK1	11	CAACAGTATTAT ACTTCTTTTTGG ACG	9	5.523620605	Kappa
PW3-F6	BASIC	VK1-33	JK3	12	CAACAGTATGTT TTC	5	5.524353027	Kappa
PW3-F7	BASIC	VK1-33	JK4	10	CAACAATATGAT AATTTCTTTCT	8	3.799865723	Kappa
PW3-F8	BASIC	VL7-46	JL3	13	TTGCTCTCCTAT GGTGCTGCTTG GGTGT-----T	13	5.524353027	Lambda
PW3-F9	BASIC	VL3-21	JL3	7	CAACTGTGGGA TAGTAGTGGTGA TGATTCGGGGG TG	12	3.422790527	Lambda
PW3-G1	BASIC	VL1-51	JL3	2	GGAACATGGGA TAGCAGCCTGA GTGCTGTGGTG	11	3.799865723	Lambda
PW3-G10	BASIC	VK1-39	JK4	19	CAGTCGAGTTAC ACTACCCCGTCT	8	5.524353027	Kappa
PW3-G12	BASIC	VK3-11	JK5	4	CAGCAGCGTAG CAAACCTGCTC CGATCACC	10	9.750061035	Kappa
PW3-G2	BASIC	VK3-15	JK5	13	CAACAGTATAAT	10	5.524353027	Kappa

Table 3. 2 – Light Chain repertoire

					AACTGGCCTCC GATCACC			
PW3-G3	BASIC	VK2-28	JK1	6	CGTCTATGTAGC AAAATAGTGGGA AGA	9	10.8604126	Kappa
PW3-G4	BASIC	VK1-33	JK2	9	CAACAGTATGAT GAACTCCCCCT CACT	9	3.66595459	Kappa
PW3-G5	BASIC	VK3-20	JK4	16	CAACAATATGGT AACTCACCCCTC AAC	9	5.524353027	Kappa
PW3-G6	BASIC	VK4-1	JK1	12	CACCAATATTAT GGTGCTCCGTG GACG	9	6.739196777	Kappa
PW3-G7	BASIC	VK1-33	JK5	6	CAACAGTATGAT AATGTCCCGATC ACC	9	3.799865723	Kappa
PW3-G8	BASIC	VK3-11	JK4	7	CAGCAGCGTTA CAAGTGGCCTC CGCTCACT	10	9.99432373	Kappa
PW3-G9	BASIC	VL3-21	JL2	5	CAGGTGTGGAA TAGTACTATGGT C	8	5.524963379	Lambda
PW3-H1	BASIC	VL2-8	JL2	5	AGTCATATGGA GGCAGTAACAAT GTAATA	10	5.239807129	Lambda
PW3-H10	BASIC	VL1-44	JL1	6	GCAGTATGGGA TGACAGCCTGA ATGCTTATGTC	11	3.563659668	Lambda
PW3-H11	BASIC	VL3-9	JL3	7	CAGGTGCGGGA CAGCAACACTTG G----GTGTT	11	5.836364746	Lambda
PW3-H12	BASIC	VL2-14	JL2	4	AGTTCATATACA ACCAGCATCACT CCCATGTGATA	12	6.456115723	Lambda
PW3-H3	BASIC	VL3-25	JL2	11	CAATCAGTAGAC	10	3.799865723	Lambda

Table 3. 2 – Light Chain repertoire

					ATCACTGCTACT TTTGGA			
PW3-H4	BASIC	VL3-21	JL1	15	CAGGTGTGGGA TACTAATAGTGA TCATTTTGTC	11	4.196716309	Lambda
PW3-H5	BASIC	VK3-11	JK5	4	CAGCAGCGTAG CAACTGGCCTC CGATCACC	10	9.750061035	Kappa
PW3-H6	BASIC	VK3-15	JK1	8	CGCAGGTCGCC TGGTTCTAGGAA TAATGGG	10	12.30108643	Kappa
PW3-H7	BASIC	VL3-9	JL3	9	CAGGTTTGGGA CGCCAGCACTG TGGTG	9	3.799865723	Lambda
PW3-H8	BASIC	VK3-11	JK5	3	CAGCAGCGTAG CAACTGGCCTC CGATCACC	10	9.750061035	Kappa
PW3-H9	BASIC	VL2-14	JL2	7	ACCTCATATACA AGCACCATCACT G----TGGTATT	12	5.184875488	Lambda
PW4- C10	BASIC	VL1-44	JL3	9	GCAACATGGGA TGACAGCCTGG ATGGTTGGG---- TGTT	13	3.422790527	Lambda
PW4- C11	BASIC	VL1-44	JL3	14	GCCACATGGGA TGACAGCCTGG ATGGTTGGG---- TGTT	13	3.422790527	Lambda
PW4-C4	BASIC	VK1-33	JK4	25	CAGCAGTATCGT CGTTTCCCTCCA GCT	9	10.83502197	Kappa
PW4-C6	BASIC	VL3-21	JL3	10	CAGGTGTGGGA TAGTAGTTGTGA TTGTTGGGTG	11	3.563659668	Lambda
PW4-C7	BASIC	VL3-25	JL1	6	CACTCAGCAGA CAGCAGTGCTAT	14	5.076721191	Lambda

Table 3. 2 – Light Chain repertoire

					TTATGTCTTCG--- -----			
PW4-C8	BASIC	VL3-21	JL2	17	CAGGTGTGGGA TAGCAGTGGTG ATCCTCATGTGG TT	12	4.196716309	Lambda
PW4-C9	BASIC	VL1-44	JL3	9	GCAACATGGGA TGACAGCCTGG ATGGTTGGGT---- GTT	13	3.422790527	Lambda
PW4-D1	BASIC	VL6-57	JL3	23	CAGTCTTATGAA GGCAGCAATTG GGT----GTT	11	3.999694824	Lambda
PW4-D10	BASIC	VK1-33	JK3	8	CAACGGTATGA CAGCCTCCGGG TCACT	9	8.745300293	Kappa
PW4-D11	BASIC	VK1-33	JK2	14	CAACAGTATGAT CATCTCCCGTAC ACT	9	5.076721191	Kappa
PW4-D12	BASIC	VK3-20	JK2	17	CAGCAGTATGG TAATTCACAGTA CACT	9	5.523620605	Kappa
PW4-D2	Cloning	VK3-15	JK2	7	CAGCAGTGGTA CACT	5	5.524353027	Kappa
PW4-D3	BASIC	VK3-20	JK1	7	CACCAGTATGG CAGCTCACCTCA AACG	9	6.74017334	Kappa
PW4-D4	Cloning	VK1-5	JK1	15	CAACAATATATT AGGTACCCGTG GACG	9	8.589660645	Kappa
PW4-D5	BASIC	VL3-25	JL1	10	CAATCAGCAGA CAGCAGTGGAA CTTATGTCTTCG -----	14	3.799865723	Lambda
PW4-D6	Cloning	VK2-30	JK2	13	ATGCAAGGTACA CACTGGCCGTA	9	6.491027832	Kappa

Table 3. 2 – Light Chain repertoire

					TACT			
PW4-D7	BASIC	VK2-28	JK2	8	ATGCAAGCTCTA CAAACCCCGTA CACT	9	5.274719238	Kappa
PW4-D9	BASIC	VK1-39	JK4	14	CAACAGAGTTAC AGTCCCTTTCTT ACT	9	5.524353027	Kappa
PW4-E1	BASIC	VL3-21	JL2	27	CAGGTGTGGGA CAGTAGTAATGA CCATCGCGTA	11	5.210876465	Lambda
PW4-E10	BASIC	VK1-39	JK4	14	CACCATGCAGG AGAAGGTGTCC CCCTT	9	5.98236084	Kappa
PW4-E2	BASIC	VK4-1	JK1	3	CAGCAATATTAT AGTGCTCCTCTA ACG	9	5.523620605	Kappa
PW4-E3	BASIC	VK3-20	JK2	0	CAGCAGTATGG TAGCTCACCTCC GTACACT	10	5.523620605	Kappa
PW4-E4	BASIC	VK1-5	JK2	17	CAACAATATAGT AGTTATCCTCTG ACT	9	5.523620605	Kappa
PW4-E5	Cloning	VL3-25	JL3	23	CAATCATCAGAC AGCGGTAAAAG TCGGGTG	10	8.747741699	Lambda
PW4-E6	BASIC	VL1-47	JL3	10	GCAGCATGGGA TGACAGCCTGA GTGGTTGGG---- TGTT	13	3.563659668	Lambda
PW4-E7	BASIC	VL2-11	JL3	7	AGTGCATTTGCA GGCAGCCACAC CTTGTTCCGGC	11	6.456481934	Lambda
PW4-E8	BASIC	VK3-20	JK1	13	CAGCAGTATGG TAGTTCACCTCG GACG	9	8.747619629	Kappa
PW4-E9	BASIC	VL3-21	JL2	11	CAGGTGTGGGA	11	4.196716309	Lambda

Table 3. 2 – Light Chain repertoire

					TGTTAGTGGTGA TCATACGGTA			
PW4-F1	BASIC	VK3-15	JK4	1	CAGCAGTATAAT AACTGGCCTCA GCTCACT	10	5.524353027	Kappa
PW4-F10	BASIC	VL2-14	JL2	6	ACAGGTGCCAT CTCAGTGGCAT CACTGGAAAGT	11	3.998352051	Lambda
PW4-F11	BASIC	VK4-1	JK2	15	CTACAATATGCT CATTTTCCGTAC ACT	9	6.739196777	Kappa
PW4-F12	BASIC	VL3-21	JL1	16	CCGCTGGGCTC GACGCTGGGCC TGTAGGCGGCT GCC	12	0	Lambda
PW4-F2	BASIC	VL1-44	JL2	16	GCAGCATGGGA TGCCAGCCTGA GTGCTGTGGTC	11	3.799865723	Lambda
PW4-F3	BASIC	VK3-15	JK3	10	CAGCGGTATAAT AACTGGCCTCTC ACT	9	8.747619629	Kappa
PW4-F4	BASIC	VK2-30	JK1	0	ATGCAGGTTACA CACTGGCCTCG AACG	9	9.519958496	Kappa
PW4-F5	BASIC	VK1-16	JK4	4	CAACAGTATAAT AGTTACCCGCTC ACT	9	5.523620605	Kappa
PW4-F6	Cloning	VL2-14	JL3	6	AACTCATATACA GGCAGCAGCAC TCTTTGGGTG	11	5.524353027	Lambda
PW4-F8	BASIC	VK3-15	JK5	26	CACCAGTATTAT GACTGGCCTCG GTCGCTCACC	11	6.742736816	Kappa
PW4-G1	BASIC	VK3-20	JK1	15	CAGCAGTATGG TGACTACCGT GGACG	9	3.799865723	Kappa

Table 3. 2 – Light Chain repertoire

PW4-G12	BASIC	VL1-40	JL1	8	CAGTCCTATGAC AACACCCTGAGT GACCATAACTAT GTC	13	4.196716309	Lambda
PW4-G2	BASIC	VL1-44	JL1	15	GCAGCATGGGA TGGCAGCCTGA ATGGTTA---- TGTCTT	13	3.799865723	Lambda
PW4-H1	BASIC	VL2-14	JL2	7	AGCTCATATTCA AGTAACATTAAT CTCGTGATA	11	5.239807129	Lambda
PW4-H10	BASIC	VK3-20	JK1	11	CAGTGCTCTCG GACA	5	8.249694824	Kappa
PW4-H11	BASIC	VL2-8	JL1	6	AGCTCATATGCA AACAGCGACAC TTTTGTC	10	3.799255371	Lambda
PW4-H12	BASIC	VL2-14	JL2	11	AGCGCATATAGA AGCAGCAGCAC TCTTGTGGTA	11	8.46282959	Lambda
PW4-H2	BASIC	VK3-20	JK3	13	CAGCACTATGG GGGCTCACGGG AATTCACT	10	6.748718262	Kappa
PW4-H3	BASIC	VK1-17	JK2	5	CTACAGCATAAT AGTTACCCGTAC ACT	9	6.739196777	Kappa
PW4-H4	BASIC	VL2-14	JL2	10	GCCTCATATAGA AGCAGCAGCAC TCTTGTGTC	11	8.792541504	Lambda
PW4-H5	BASIC	VL1-40	JL3	7	CAGACCTATGAC AGCAGGCTGAG TGCTTGG----- GTG	13	5.835632324	Lambda
PW4-H8	BASIC	VL2-14	JL2	16	AGCTCATATAGA AGGAGCAGAAG TCTTGTGGTT	11	11.71136475	Lambda
PW4-H9	BASIC	VL2-14	JL2	6	ACCTCATATAGA	11	8.407897949	Lambda

Table 3. 2 – Light Chain repertoire

					ATTAGTAGCACT CTTGTGGTA			
PW5-C12	BASIC	VL2-14	JL1	6	GGAGGAGCTGG CCCTGAACGAG CTGGTGAC	10	4.669616699	Lambda
PW5-D1	BASIC	VL2-8	JL3	10	AGCTCATATGGA GGCAACCACGA TCTGATG	10	5.05670166	Lambda
PW5-D10	BASIC	VK3-20	JK1	0	CAGCAGTATGG TCGAACG	6	8.747619629	Kappa
PW5-D12	BASIC	VL1-44	JL3	3	GCAGCATGGGA TGACAGCCTGA ATGGTTGGGT---- GTT	13	3.563659668	Lambda
PW5-D2	BASIC	VK3-20	JK1	12	CAGCACTATGTT GACTCACCGTG GGCG	9	5.076721191	Kappa
PW5-D4	BASIC	VL1-47	JL1	9	GCAGCATGGGA TGACATCCTGAG TGGTCATGTC	11	4.196838379	Lambda
PW5-D5	BASIC	VL1-51	JL2	12	CAAACATGGGAT GACAACCTGAG TGCTGTGATT	11	3.563659668	Lambda
PW5-D6	BASIC	VK3-11	JK1	22	CAGCAGCGAAG CAACTGGCCTCT CACG	9	9.750061035	Kappa
PW5-D7	BASIC	VK4-1	JK4	2	CGCTTCTTGCCC CTCTCTGCTTGG GTCCCTGCT	11	9.750061035	Kappa
PW5-D8	BASIC	VL2-14	JL1	0	AGCTCATATACA AGCAGCAGCAC TTA----TGTCTT	12	5.237854004	Lambda
PW5-D9	BASIC	VK3-11	JK2	2	CAGCAGCGTAG CAACTGGCCTC CGTACACT	10	8.747619629	Kappa
PW5-E1	BASIC	VK1-33	JK4	4	CAACAGTATGAT	9	3.799865723	Kappa

Table 3. 2 – Light Chain repertoire

					AATCTCCCCTTC GGT			
PW5-E10	BASIC	VK1-33	JK1	5	CAACAGTATGAT AATCTCTGGACG	8	3.799865723	Kappa
PW5-E11	BASIC	VK1-9	JK5	8	CAGCAGTCTAAT GATTACCAGATC ACC	9	3.799865723	Kappa
PW5-E2	BASIC	VK3-20	JK4	12	CAGCAGTATGCT AACTCACCCCTTC ACC	9	5.524353027	Kappa
PW5-E3	BASIC	VK3-20	JK2	10	CAACTTCTTCAG ATCTGGGTGGTT CAT	9	6.741149902	Kappa
PW5-E4	Cloning	VK3-15	JK5	5	CAACAGTATAAT AACTGGCCTCC GATCACC	10	5.524353027	Kappa
PW5-E5	Cloning	VK3-15	JK5	7	CAACAGTATCAT AACTGGCCTCC GATCACC	10	6.74017334	Kappa
PW5-E6	BASIC	VL1-47	JL3	19	GGGCTCCAGTT TATCAAGATATC CCCTTACACCC GCATA	13	9.99432373	Lambda
PW5-F1	Cloning	VK3-11	JK4	1	CAGCAGCGTAG CAACTGGCCTC CGCTCACT	10	9.750061035	Kappa
PW5-F10	BASIC	VL3-10	JL2	10	TACTCAGCGGA CAGCACTGGTA ATCCCGTGGTA	11	3.799865723	Lambda
PW5-F11	BASIC	VK1-5	JK1	8	CAACAGTATGAT GCTTATCCGTG GACG	9	3.799865723	Kappa
PW5-F12	BASIC	VL3-1	JL2	14	CAGGCGTGGGA CAGCAGTACTGT GGT-----C	11	3.799865723	Lambda
PW5-F2	BASIC	VL3-21	JL3	13	CGAATGGGGGC	11	12.00006104	Lambda

Table 3. 2 – Light Chain repertoire

					TTCAATCGGGA GTA CTACTCGA			
PW5-F4	BASIC	VK3-20	JK3	10	ATATGTCAATTG GCCTTGGCTTTC TGC	9	5.511413574	Kappa
PW5-F5	BASIC	VL2-14	JL1	5	GCCTCATATACA AGCACCAGCAC TCGACTC	10	8.792541504	Lambda
PW5-F6	BASIC	VL3-21	JL3	10	CAGCTGTGGGA TAGCAGTAGTGA TCATGGGGGGG TT	12	4.196716309	Lambda
PW5-F8	BASIC	VL3-1	JL1	8	CAGGCGTGGGA CAGCAGCACTC GGGTC	9	5.836364746	Lambda
PW5-F9	BASIC	VL3-21	JL2	10	CAGGTGTGGCA TCGTTATAGTGA TCATATGATA	11	6.918395996	Lambda
PW5-G1	BASIC	VL3-21	JL2	9	CAGGTGTGGCA TCGTTATAGTGA TCATATGATA	11	6.918395996	Lambda
PW5-G11	BASIC	VL3-1	JL3	17	CAGGCGTGGGA CAGCAACTCTG GGGTT	9	3.799865723	Lambda
PW5-G12	BASIC	VK2-30	JK2	6	ATGCAGGGCAC ACACTGGCCGT ACACT	9	6.491027832	Kappa
PW5-G2	BASIC	VK1-12	JK2	7	CTCTTGTCCACG GTGAGCTTGCT GTAGAGGAAG	11	0	Kappa
PW5-G3	BASIC	VL1-40	JL3	5	CAGTCCTATGAC AGCAGCCTGAG TGGTTGGGT----- G	13	3.799865723	Lambda
PW5-G4	BASIC	VL3-1	JL2	10	CAGGCGTGGGA CACCAGCACTG	11	3.799865723	Lambda

Table 3. 2 – Light Chain repertoire

					TGA-----TA			
PW5-G5	BASIC	VK3-20	JK2	7	CAGCAATATGGT AACTCACCTCG GATGTACCCT	11	8.589660645	Kappa
PW5-H1	BASIC	VL3-19	JL2	12	AACTCCCGGGA CACCAATGGTG ATCATCTCATC	11	5.210876465	Lambda
PW5- H12	BASIC	VL2-14	JL2	9	AGTCATATAGA ACCAGCAGCAC TCTTGTGGTA	11	8.46282959	Lambda
PW5-H2	Cloning	VL1-44	JL3	8	GCAGCCTGGGA TGACAGCCTGA GTGGTGTGGTG	11	3.563659668	Lambda
PW5-H3	BASIC	VL2-14	JL1	16	AGTTCATATAGA GATAGCAGCCC CCCCTTGTATAT C	12	5.55255127	Lambda
PW5-H4	BASIC	VL1-40	JL2	9	CAGTCGTATGAC AGCACTCTGGG TGGTCATGCGG TA	12	5.076721191	Lambda
PW5-H5	BASIC	VL1-40	JL3	28	CAGTCTTATGCC TACGATCAGAGT GTCTATTGGGTG	12	3.799865723	Lambda
PW5-H6	BASIC	VL8-61	JL3	12	GTGCTGTATATG GGTCGTGGCTC TTGGGTG	10	8.717590332	Lambda
PW5-H7	BASIC	VK1-39	JK4	7	CAACAGACTTCC ACTACCCTCATT ACT	9	5.524963379	Kappa
PW5-H8	BASIC	VL1-44	JL3	10	GCAACATGGGA TGGCAGCCTGA ATGGTTGGG---- TGTT	13	3.799865723	Lambda
PW5-H9	BASIC	VL2-14	JL2	7	AGTCATATAGA AGCAGCAGCAC	11	8.46282959	Lambda

Table 3. 2 – Light Chain repertoire

					TCTTGTGGTA			
PW6-D10	BASIC	VL1-40	JL1	3	CAGTCCTATGAC AACAGCCTGAAT GGTTTTATGTC	12	3.799865723	Lambda
PW6-D12	BASIC	VK3-15	JK3	2	CAGCAGTATAAT AACTGGCCCCG ATTCACC	10	8.747619629	Kappa
PW6-D2	BASIC	VL6-57	JL3	22	CAGTCTTATGAT ACCGGCCTTTG GGTG	9	3.799865723	Lambda
PW6-D3	BASIC	VL6-57	JL3	20	CAGTCTTATGAT ACCGGTCTTTG GGTG	9	3.799865723	Lambda
PW6-D4	BASIC	VL6-57	JL3	22	CAGTCTTATGAT ACCGGCCTTTG GGTG	9	3.799865723	Lambda
PW6-D5	BASIC	VK4-1	JK2	9	CAGCAATATTAT AGTAGTCCTCAC ACT	9	6.739196777	Kappa
PW6-D6	BASIC	VL6-57	JL3	21	CAGTCTTATGAT ACCGGCCTTTG GGTG	9	3.799865723	Lambda
PW6-D7	BASIC	VK4-1	JK2	12	CAGCAATATTAT AGTAGTCCTCAC ACT	9	6.739196777	Kappa
PW6-D9	BASIC	VL3-9	JL3	11	CAGGTGCGCGA CAGCGGCACTT GGG----TGTT	11	5.836364746	Lambda
PW6-E1	Cloning	VL3-1	JL2	10	TGTCAGGCGTG GGACACCAGCA CTTATGTGGTAT TC	10	3.75	Lambda
PW6-E10	BASIC	VL1-51	JL1	10	GGAGCGTGGGA TGGCAGCCTGA GTGCTTA---- TGTCTT	13	3.799865723	Lambda

Table 3. 2 – Light Chain repertoire

PW6-E12	BASIC	VL3-9	JL3	11	CAGGTGTGGGA CAGTAGCACTTG GGT---GTT	11	3.799865723	Lambda
PW6-E4	BASIC	VL3-9	JL3	12	CAGGTGTGGGA CAGCAGTACGT GGGTG	9	3.799865723	Lambda
PW6-E5	BASIC	VL3-19	JL2	8	AACTCCCGAGA CAGTAGTGGTAA CCATCCA	10	6.744567871	Lambda
PW6-E6	BASIC	VL2-14	JL1	6	AGCTCATATACA ACCAGCTACAC GAATGTC	10	5.239562988	Lambda
PW6-E8	BASIC	VL3-9	JL3	21	CAGGTGTGGGA CAGCACCAGTT GGGTG	9	3.799865723	Lambda
PW6-E9	BASIC	VK1-5	JK2	11	CAACACTATAAT ACTTATTTTAAAT GTT	9	6.739196777	Kappa
PW6-F1	BASIC	VK3-15	JK1	2	CAGCAGTATAAT GACTGGCCTCC GACGACG	10	3.799865723	Kappa
PW6-F10	BASIC	VK3-15	JK5	11	CGCAGGTCGCC TGTTCTAGGAA TAAT	9	12.30108643	Kappa
PW6-F11	BASIC	VL1-51	JL2	1	GGAACATGGGA TAGCAGCCTGA GTGCTGTGGT--- ---A	13	3.799865723	Lambda
PW6-F12	BASIC	VK3-15	JK1	12	CAGCAGTATATT GAATGGCCTAA GACG	9	6.000671387	Kappa
PW6-F5	BASIC	VK2-30	JK3	5	ATGCAGGGTAC GCACTGGCTCC GGGGATTCACT	11	9.519958496	Kappa
PW6-F6	BASIC	VK1-33	JK4	5	CAACAGTATCTC GCT	5	5.524353027	Kappa

Table 3. 2 – Light Chain repertoire

PW6-F7	BASIC	VL1-40	JL3	9	CAGTCCTATGAC AGCAGCCTGAG TGGTTATTGGGT G	12	3.799865723	Lambda
PW6-F8	BASIC	VL3-9	JL3	12	CAGGTGTGGGA CAGCAGCACTT GGGT----GTT	11	3.799865723	Lambda
PW6-F9	BASIC	VK1-39	JK5	2	CAACAGAGTTAC GGTACCCCGAT CACC	9	5.524353027	Kappa
PW6-G1	BASIC	VK2-28	JK2	6	ATACAAGCTCTA CAAACCTCTCCC ACT	9	5.524963379	Kappa
PW6-G10	BASIC	VK3-11	JK5	10	CAGCACCGTTG GAGCTGGCCCT CGGGCACC	10	9.756530762	Kappa
PW6-G11	BASIC	VK1-NL1	JK1	5	CAGCAGTATTAT AGTATCCCTCGA ACG	9	8.589660645	Kappa
PW6-G12	BASIC	VK3-11	JK4	11	CAGCAGCGTAC CAACTGGCCTC CTCTCACT	10	9.750061035	Kappa
PW6-G2	BASIC	VK1-33	JK2	14	CATCAGTGTGAA AATTTCCCTCGA ACT	9	6.74041748	Kappa
PW6-G4	BASIC	VK1-39	JK1	13	CCATTGAGAACC AGATTTGTGTAC CAT	9	10.84039307	Kappa
PW6-G6	BASIC	VL1-40	JL2	10	CAGTCCTATGAC AGCAGCCTGAA TGGTGT---- GGTATT	13	3.799865723	Lambda
PW6-G7	BASIC	VK1-17	JK1	6	CTACAGCATAAT ACTTACCCGTG GACG	9	6.74017334	Kappa
PW6-G9	BASIC	VK1-17	JK4	8	CTCCAGCATAAT	9	6.74017334	Kappa

Table 3. 2 – Light Chain repertoire

					AATTACCCTCCC ACT			
PW6-H5	BASIC	VK1-5	JK2	5	CAACAGTATAAA AGTTATTCCTCG TACACT	10	8.430725098	Kappa
PW6-H6	BASIC	VL2-14	JL3	9	AGCTCATATACA AGCAGCAGCAC TTGGGTG----TT	12	5.239807129	Lambda
PW6-H7	BASIC	VL2-14	JL3	9	TGCTCATATAGA AGCAGCAGCAC TCTTGTGGTG	11	8.221984863	Lambda
PW6-H8	BASIC	VL2-14	JL2	12	AGCGCATATAGA AGCAGCAGCAC TCTTGTGGTA	11	8.46282959	Lambda