Supplementary Table 3: Primers sequences

BRCA1

Exon	Fragment lenght	primer	
	164	2-1F	M13-ATGATAAAATGAAGTTGTC
2		2-1R	M13-ACACTCTAAGATTTTCTGC
2	162	2-2F	M13-TTATCTGCTCTTCGCGTTG
		2-2R	M13-CTTCCCTAGTATGTAAGGTC
3	101	3F	M13-GCTCAAAGTTGAACTTATTCAC
3	191	3R	M13-CAAAAGCTAATAATGGAGCCAC
5	193	5F	M13-GCCTTTTGAGTATTCTTTCTAC
3	193	5R	M13-TCCTACTGTGGTTGCTTCC
6	173	6F	M13-GGTTGATAATCACTTGCTG
O	173	6R	M13-CACTTGAGTGTCATTCTTG
7	334	7F	M13-GAGCATACATAGGGTTTCTCTTGG
/	334	7R	M13-GAAGAAGAAGAAAACAAATGG
8	240	8F	M13-GTCAAGTTTCTCTTCAGGAG
8	240	8R	M13-CTATAAGATAAGGAATCCAGC
9	212	9F	M13-CCTGCCACAGTAGATGCTCAG
9	213	9R	M13-GGAAAATACCAGCTTCATAGACAAAGG
10	180	10F	M13-CATTTGACAGTTCTGCATAC
10		10R	M13-CTTTCAGTGCCTGTTAAGTTG
	126	11-1F	M13-CCAAGGTGTATGAAGTATG
	136	11-1R	M13-TATTACTGGGTTGATGATGTTC
	204	11-2F	M13-CAGCTGCTTGTGAATTTTCTG
	204	11-2R	M13-ATAAACTGCTGTTCTCATGC
	271	11-3F	M13-GCACAAATACTCATGCCAGCTC
		11-3R	M13-CTAGGATTCTCTGAGCATGGC
11	221	11-4F	M13-GTGTGAGAGAAAGAATGG
11		11-4R	M13-CATCTACCTCATTTAGAACG
	281	11-5F	M13-GAATCAAATGCCAAAGTAGC
		11-5R	M13-CGCTTTAATTTATTTGTGAGGG
	289	11-6F	M13-CTAATTATAGGAGCATTTGTTAC
		11-6R	M13-CTTTTTCGAGTGATTCTATTGG
	236	11-7F	M13-CAAAAGGTGATTCTATTCAG
		11-7R	M13-ATTAGGTGGGCTTAGATTTC

		11.05	NIA GGL LGT GTT GTL GGL GGG
	241	11-8F	M13-GGA AGT CTT CTA CCA GGC
		11-8R	M13-GTTAACTTCAGCTCTGGGAAA
	265	11-9F	M13-GGTAAAGAACCTGCAACTGGAG
		11-9R	M13-GCAAAACCCTTTCTCCACTTAAC
	289	11-10F	M13-CCTAGCCTTCCAAGAGAAG
		11-10R	M13-CCATGAATTAGTCCCTTGG
	273	11-11F	M13-GGAAGGCAAAAACAGAAC
	270	11-11R	M13-CACATTCCTCTTCTGCATTTC
	202	11-12F	M13-CATTCAAGGTTTCAAAGCGCC
	202	11-12R	M13-CCAACCACAGGAAAGCCT
	211	11-13F	M13-CCAAAAGTCACTTTTGAATGTG
	211	11-13R	M13-TAATGAGTCCAGTTTCGTTG
	221	11-14F	M13-GCCAAATGTAGTATCAAAGGAGG
11	221	11-14R	M13-CCCATTTCTCTTTCAGGTGA
11	212	11-15F	M13-GAAAAATCTGCTAGAGGAAAAC
	213	11-15R	M13-TCATCACTGGAACCTATTTC
	252	11-16F	M13-GTAGGTTCCAGTACTAATGAAG
	253	11-16R	M13-CTGAAATCAGATATGGAGAGAAATC
	141	11-17F	M13-GCAAGAATATGAAGAAGTAGTTC
		11-17R	M13-CCATCATCTAACAGGTCATC
	234	11-18F	M13-CCATATCTGATTTCAGATAACTTA
		11-18R	M13-GATAAGTTCTCTTCTGAGGACTC
	250	11-19F	M13-GCAGGAGTCCTAGCCCTTTC
	258	11-19R	M13-GGTTACTGCAGTCATTTAAGCTATTC
	178	11-20F	M13-GTCTGTCTAAGAACACAGAGG
		11-20R	M13-CCAATCAAGAAAGGATCCTGG
	251	11-21F	M13-GTTTTCTTCACAGTGCAGTG
		11-21R	M13-AAATAGACTGGGGCAAACAC
12	246	12F	M13-GCAAGTTGCAGCGTTTATAG
12		12R	M13-GGATACATACTGAATGCAAAG
		13F	M13-GGAAAGCTTCTCAAAGTATTTC
13		13R	M13-GCTTAAGATATCAGTGTTTGG
	I.	1	<u> </u>

		14F	M13-CAGAACAAAGCAGTAAAGTAG
14	216	14R	M13-AAGATGTCAGATACCACAGC
		15-1F	M13-CAATTGGTGGCGATGGTTTTC
1.5	166	15-1R	M13-CTCCTCCACATCAACAACC
15	1.0	15-2F	M13-GAAACTACCCATCTCAAGAGGAG
	163	15-2R	M13-CAGAGTAAAATCAAAGTGTTTGTTCC
	263	16-1F	M13-CAGAGACCAGAACTTTGTAATTCAAC
16	203	16-1R	M13-CCAGCAGTATCAGTAGTATGAGC
10	218	16-2F	M13-GAAAGTTGCAGAATCTGCCC
	218	16-2R	M13-GTTGTTAAGTCTTAGTCATTAGGG
17	173	17F	M13-GTGCTAGAGGTAACTCATG
17	173	17R	M13-CAGCAGATGCAAGGTATTC
18	201	18F	M13-GGCTCTTTAGCTTCTTAGGAC
16		18R	M13-TCTGAGGTGTTAAAGGGAGG
19	162	19F	M13-CCTCTCTATCTCCGTGAAAAGAG
19		19R	M13-CTATATGACTGAATGAATATCTCTGG
20	187	20F	M13-CTGCTCCACTTCCATTGAAG
20	187	20R	M13-GAGATTTTTGTCAACTTGAGGG
21	142	21F	M13-CCTTCTCCCATTCCCCTG
21	142	21R	M13-AAGGCTGGTGCTGGAACTC
22	170	22F	M13-GCCTGGGTTAAGTATGCAG
22	170	22R	M13-ATTGTGTCCTCCCTCTCTG
23	155	23F	M13-GTGACAGTTCCAGTAGTCCTAC
23		23R	M13-CCCATATAGCACAGGTACATGC
24	212	24F	M13-GAGCCTAGTCCAGGAGAATG
<i>2</i> 4	212	24R	M13-TGTGGCTCTGTACCTGTGG

BRCA2

Exon	Fragment lenght	primer	
2	271	2F	M13-CCAGCGCTTCTGAGTTTTAC
2	271	2R	M13-GTGACGTACTGGGTTTTTAGC
_	242	3F	M13-GGGTCACAAATTTGTCTGTCAC
3	343	3R	M13-GTAGTTCTCCCCAGTCTACC
4	250	4F	M13-CCAGAGTATATACATTCTCAC
4	258	4R	M13-GGCTCTTAGCCAAAATATTAG
5.6	425	5/6F	M13-GTGTTGGCATTTTAAACATCAC
5+6	435	5/6R	M13-GCTATTGTCAAATTCTCAATTAC
7	211	7F	M13-CCTTAATGATCAGGGCATTTC
7	211	7R	M13-CCTCATCTGCTCTTTCTTG
0	269	8F	M13-GATGTGCTTTTTGATGTCTGAC
8	268	8R	M13-CCAGGTTTAGAGACTTTCTC
0	222	9F	M13-GGACCTAGGTTGATTGCAG
9	322	9F	M13-GGTGACAGAGCAAGACTCC
	202	10-1F	M13-CAGGAGAAGGGGTGACTG
	293	10-1R	M13-GGTATCTACAACTGTTTCATATAC
Î	222	10-2F	M13-GATGAAGTATATGAAACAGTTGT
	223	10-2R	M13-CTAATGGATCAGTATCATTTGG
	206	10-3F	M13-CTCATTTGTATCTGAAGTGG
	206	10-3R	M13-GGTCACATGAAGAAATATGC
10	181	10-4F	M13-GGAGCCCAGATGGAGAAAAT
10	161	10-4R	M13-CCACTGTTTCCTCATTTAATGG
	242	10-5F	M13-GCCACGTATTTCTAGCCTAC
	243	10-5R	M13-GGATCAGTCATATGACCTGAA
	310	10-6F	M13-CTTTCAATGCAAGTTTTTCAGG
		10-6R	M13-GCTGAACAGTTAATTAGTTCTG
	273	10-7F	M13-GGAAAAAAATACCGAAAGACC
	213	10-7R	M13-CCTGATTCTAAACACTGGTAA
	302	11-1F	M13-AATGTGATTGATGGTACTTTAATTTTG
	302	11-1R	M13-GATCATTTTCACACTGTCCTTC
	220	11-2F	M13-CCAGAAGCTGATTCTCTGT
	220	11-2R	M13-CCTTGGAAGTAGGAGTTAAAA
11	270	11-3F	M13-GGAATACAGTGATACTGACTTTC
11	210	11-3R	M13-GGTGGCAACAGCTCAACG
	282	11-4F	M13-CCCATGGAAAAGAATCAAGATG
	202	11-4R	M13-CCTTAGTATTTCCTAAAGCAAGA
	232	11-5F	M13-CCAGACTCTGAAGAACTTTTC
		11-5R	M13-CCTCTGCAAGAACATAAACC

	298	11-6F	M13-CCCATTTTCAAGAACTCTACC
		11-6R	M13-GCTTGATTTCCTTATTTGAAGCT
	295	11-7F	M13-GGTCCAATTTCAAATCACAG
	293	11-7R	M13-CCTGCTTGGAAAATAACATC
	252	11-8F	M13-GCCTCAGTCAATTAATACTG
	252	11-8R	M13-GGCACTTCAAATGTACTCTTC
	207	11-9F	M13-GGAAGTCAGTTTGAATTTACTC
		11-9R	M13-CCGTTTAATTTCAACTGTACC
	233	11-10F	M13-GGAATGCAGAGATGCTGAT
		11-10R	M13-GCAGAGCTTCAGTAGAAAC
	266	11-11F	M13-GGTTTAGGGGCTTTTATTCTG
	200	11-11R	M13-GCCAGTAGTCATTTCAATATTATT
	252	11-12F	M13-GGTACATCCAATAAGTTTATCTTc
	253	11-12R	M13-GCCATCAAATTCTAAGTTATGAG
	100	11-13F	M13-CTGAAAATTACAAGAGAAATACTG
	198	11-13R	M13-CCTCCTTCATAAACTGGCC
	225	11-14F	M13-GCACAACATATGTCTTAAATTATCT
	235	11-14R	M13-GGCGACACTAATATTTTCCC
	294	11-15F	M13-CTGCTACTAAAACGGAGCA
	294	11-15R	M13-CCTGGAAGGTCACTAGTTG
	272	11-16F	M13-GGAAACAGACATAGTTAAACAC
	212	11-16R	M13-CCTCTCTGTACTTTAGGGT
	299	11-17F	M13-GGTACTAGTGAAATCACCAGT
	299	11-17R	M13-GGACTTTTTGCTGTTTCTTTTTC
	273	11-18F	M13-GCCACCTAAGCTCTTAAGT
	213	11-18R	M13-GGTTGACCATCAAATATTCC
	248	11-19F	M13-CCTTAGCTTTTTACACAAGTTG
	240	11-19R	M13-GGAATAGCTGTTAGACATGC
	276	11-20F	M13-GCTGAAAATGACAAAAATCATCTC
		11-20R	M13-GCTAGTCACAAGTTCCTCAAC
	287	11-21F	M13-GCAAATGCATACCCACAAAC
	207	11-21R	M13-GCTAGTCACAAGTTCCTCAAC
	341	11-22F	M13-CGTTTGTGTTTCACATGAAAC
	541	11-22R	M13-CCTGCCATAATTTTCGTTTGG
	286	11-23F	M13-CCTTGTGATGTTAGTTTGGAAAC
	200	11-23R	M13-GGGATATTAAATGTTCTGGAGTAC
	275	11-24F	M13-GCTCACAAGAGAAAAATAC
	213	11-24R	M13-GCTCTGGGTTTCTCTTATC
	283	11-25F	M13-CCTACGTCTAGACAAAATGTATC
	203	11-25R	M13-CGTTTTTAGGTGAAGCCTG
	281	11-26F	M13-GGTGGTTCTTCAGAAAATAATC
	201	11-26R	M13-GCTTTAGCAATTTCTACTGCTT

11-27F Mi3-CCCTGTGAAAACAATATAGAAGTTTG		1	1	
12F Mi3-GCTCTATAGACTTTTGAGAAATAAA 12R Mi3-CCATACCTATAGAGGGAGAC 13R Mi3-GCCATACACTATAGAGGGAGAC 13R Mi3-GCCATACATTGTGTCTCAAATTTTTTG 13R Mi3-GCGTGTGTCCAAATTTTTTG 14R Mi3-GCTGTAGACAATGAGGGGT 14-IR Mi3-GCTGTAGACAATGAGGGGT 14-IR Mi3-GCTGTAGACAATGAGGGGT 14-IR Mi3-GCTGTAGACAATGAGGGGT 14-IR Mi3-GCTGTAGACAATGAGGGGT 14-IR Mi3-GCTGTGTTTCCTCCAA 14-3R Mi3-GGCAAAAACACAAAACAAACAAACAAACAAACAAACAAA		300	11-27F	M13-CCTGTGAAAACAAATATAGAAGTTTG
128			11-27R	M13-CCAAGTCTACTGAATAAACAC
13		215	12F	M13-GGTCTATAGACTTTTGAGAAATAAA
13			12R	M13-CCATACCTATAGAGGGAGAAC
14-1F MI3-CCATGTAGCAAATGAGGGT 14-1R MI3-CCTGTAGTAATCAAGTGTCTC 14-2F MI3-GGAAAAATCTTCAAGCAATTTAGC 14-2F MI3-GGAAAAATCTCTCAAGCAAATTTAGC 14-2F MI3-GGAAAAATCTCTCAAGCAAATTTAGC 14-3F MI3-GGAAAAATCATCACACAAAATTG 15 15F MI3-GGAAAAATCATCACACAAAATTG 15F MI3-GGAAAAATCAACACACAAATTG 15F MI3-GGAAAATCATCACACAAAATTG 15F MI3-GGAAAATCACACACAAATTG 15F MI3-GGAAAATCACACCACAAATTG 15F MI3-GGAAATCACTCACACAAAATTG 16F MI3-GGAAATCACTTTTGGTTTGTTA 16F MI3-GGAAGTCACGACATCACACACACG 17F MI3-GTCAGGAGGAATACATTAAAAG 17F MI3-GTCAGGTGACTTGTG 17R MI3-GCCATTCTTTAAGACAGACA 18-1F MI3-GCCATTCTTTAAGACAGACA 18-1F MI3-GCCATTCTTTAAGACAGCACAA 18-1F MI3-GCCATTCTTTAAGACAGACTAA 18-1R MI3-GCCATTCTTTAAGACAGACTAA 19R MI3-GGAATCAAGAATGAAAA 19R MI3-GGAATCAAGAACAGAACCC 20P MI3-GGAATCACAGACCGAAACTCC 20P MI3-GGCAGTTCAGAAGAATGAAAA 19R MI3-GCCAGTTCAGAAGAATGAAAA 19R MI3-GCCAGTTCAGAAGAATGAACA 21F MI3-GCCAGTTCTTTAGATCAGCC 22-1F MI3-GCCTCTAAGACATTTTTTAGTTC 21F MI3-GCTCTCTAAGACTTTTTTAGTTC 22-1F MI3-GGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	13	218	13F	M13-GCCTATAATTGTCTCAAATTTTTTG
14-18 Mi3-CCTGTAGTAATCAAGTGTCTC 14-2F Mi3-GGAAAATCTTCAAGCAATTTAGC 14-2R Mi3-GGAAAAATCTTCACACAAATGC 14-3R Mi3-GGAAAAATCATCACACAAATGC 14-3R Mi3-GGAAAAATCATCACACAAATTG 14-3R Mi3-GGAAAAATCATCACACACAATTG 15F Mi3-GGGAGAAAATCATTCACACACAAATTG 15F Mi3-GGGAGAAAATCAATCAATTC 15R Mi3-GGATGAGTGAATACATCACACACATC 16R Mi3-GGATAAGTCATGATAAAAGGC 17F Mi3-GGAAGAGAATACATAAAAGG 17F Mi3-GGAAGAGAATACATAAAAGG 17F Mi3-GGAAGTACACAGAGA 17F Mi3-GGAAGTCACAGAGAATACATAAAAGG 17F Mi3-GGAAGTCACAGAGAATACATAAAAGG 18-1F Mi3-GCAAGTACACAGAGA 18-1F Mi3-GCAAGTACACAGAGA 18-1F Mi3-GCAAGTACACAGAGA 18-2F Mi3-GCAATTACAAGTAGGTGG 18-2R Mi3-GCAATTACAAGTAGGTGG 18-2R Mi3-GGAATTACAAGAATGAATAAAA 19R Mi3-GCAAGAACACTCC 299 20F Mi3-GGAATTACAGAATGACTTACATAA 21F Mi3-GGCAGTTCTTAGAGAAAAAA 19R Mi3-GCAAGAGACCCAAAACTCC 22-1F Mi3-GGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT		-	13R	M13-CGAGACTTTTCTCATACTGTATTA
14-1R M13-CCTGTAGTAATCAAGTGTCC 14-2F M13-GGAAAAATCTTCAAGCAATTTAGC 14-3R M13-GGAAAAATCTTCAAGCAAATTG 14-3R M13-GGAAAAATCATCACACAAAATG 14-3R M13-GGCAAAAATTCATCACACAAATG 14-3R M13-GGCAAAAATTCATCACACAAAATG 15		286	14-1F	M13-CCATGTAGCAAATGAGGGT
14-2R MI3-GCTTTTGTCTGTTTTCCTCCAA 14-3F MI3-GGAAAACAGACAAAAC 14-3F MI3-GGAAAACAGACAAAAC 14-3F MI3-GGCAAAAATTCATCACACAAATTG 15F MI3-GGGAAAATTCATCACACACAATTG 15F MI3-GGGGTTGTGTTTTAAATTTC 15R MI3-GGCATAAAAAGCCATC 16F MI3-GGTAAAATTCAGTTTTGGTTTGTTA 16R MI3-GGATAAATTCAGTTTTGGTTTGTTA 16R MI3-GGAAGAATACATAAAAG 17F MI3-GTAAGAGAATACAATAAAAG 17F MI3-GTACAGAGAATACAATAAAAG 17F MI3-GTACAGAGAATACAATAAAG 17F MI3-GTACAGAGAATACAACAGA 18-1F MI3-GCCAGTACACAGA 18-1F MI3-GCCAGTACACAGA 18-1F MI3-GCCATTCTTTAAGACAGCTAA 19-2F MI3-GCAGTTACAGATGGTGG 18-2F MI3-GCAGTTCAGAAGAGTTAACA 19F MI3-GCAGTTCTAGAAGAATACAATACA 19F MI3-GCAGTTCTAGAAGAATACACCA 20F MI3-GGTATACAGATGTGAGCCA 20F MI3-GGTATACAGATGTGAGCCA 20F MI3-GCTTGTTTTAGTTTTAGTTG 21F MI3-GCTTGTAGACTTTGTTCCATA 21F MI3-GCTTGTAGACTTTGTTCCATACACTC 22-1F MI3-GCTTGTTCTCATATACTCTC 22-1F MI3-GGAACTTTTTTGTTTTGTTTGTTCC 22-2F MI3-GGAACTTGTATTATTTTGAAAC 23-1F MI3-GGAACTTGTATTTTTTTTTGAAC 23-1F MI3-GCTAACTGTATTTTTTTTTTTTTTTTTTTTTTTTTTTTT			14-1R	M13-CCTGTAGTAATCAAGTGTCTC
14-2R MI3-GCTTTTGTCTCCCAA 14-3F MI3-GGAAAACAGAAAAGCAAAAC 14-3R MI3-GGAAAACAGACAAAAGCAAAAC 14-3R MI3-GGCAAAAATTCATCACACAAATTG 15F MI3-GGGGTTGTGTTTTTAAATTTC 15R MI3-GGGTTGTGTTTTTAAATTTC 15R MI3-GGATAAATCAGTTTGTTATTTTC 16R MI3-GGATAAATCAGTTTTGTTA 16R MI3-GGATAAATCAGTTTTGTTATA 16R MI3-GGATACATAAAAG 17F MI3-GTACAGAGAATAGTTGTAGTTG 17R MI3-GGAAGTCACACAGA 18-1F MI3-CTCAGTATTCAGTGACTTGT 18-1R MI3-GCCATTCTTTAAGACAGCTAA 18-2F MI3-TGAACTTACAGATGTGTTGT 18-2R MI3-GCAATCATAGAGAGATTTTTACC 19F MI3-GGAAGTCAGAAGAGAACTCC 20F MI3-GGAATCAGAAGACCAAACTCC 20F MI3-GGAATCAGAAACTCC 20F MI3-GGAATCAGAACTTCATAGACAGACCAAACTCC 20F MI3-GGAATCAGAACTTGAGCAACTCC 21F MI3-GCTTGTGTGTCTCATA 21F MI3-GCTTGTGTTTTAGTTGT 21R MI3-CTTCTCACCTTGAATCAATCACTC 22-1F MI3-GGAACTTTTTTGTTCTGATTGC 22-1F MI3-GGAACTTTTTTGTTCTGATTGC 22-1F MI3-GGAACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	14	200	14-2F	M13-GGAAAAATCTTCAAGCAATTTAGC
184	1.	200	14-2R	M13-GCTTTTGTCTGTTTTCCTCCAA
14-3R Mi3-GGCAAAAATTCACCACACAATTG		184	14-3F	M13-GGAAAACAGACAAAAGCAAAAC
15R MI3-CACTCTGTCATAAAAGCCATC		104	14-3R	M13-GGCAAAAATTCATCACACAAATTG
15R Mi3-CACTCTGTCATAAAAGCCATC	15	202	15F	M13-GGGGTTGTGCTTTTTAAATTTC
16		282	15R	M13-CACTCTGTCATAAAAGCCATC
16R MI3-GGATGAGGGAATACATAAAAG 17F MI3-GTACAGAGAATAGTTGTAGTTG 17R MI3-GGAAGTCACAGAGA 18	16	225	16F	M13-GGTAAATTCAGTTTTGGTTTGTTA
17	10	333	16R	M13-GGATGAGGGAATACATAAAAG
17R MI3-GGAAGTCACAGACTACACAGA 18-1F MI3-CTCAGTTATTCAGTGACTTGT 18-1R MI3-GCCATTCTTTAAGACAGCTAA 18-1R MI3-GCCATTCTTTAAGACAGCTAA 18-2F MI3-TGAACTACAGATGGGTGG 18-2R MI3-CTGAATCAATGACTGATTTTTACC 19F MI3-GGCAGTTCTAGAAGAATGAAAA 19R MI3-GCAAGAGACCGAAACTCC 20P 20P MI3-GGATTACAGATGTGAGCCA 20R MI3-GTCTCTAAGACTTTGTTCTCATA 21F MI3-GCTTGGTTCTTTAGTTTTAGTTG 21R MI3-CTTCTCACCTTGAATAATCATC 22	17	22.6	17F	M13-GTACAGAGAATAGTTGTAGTTG
18	1 /	326	17R	M13-GGAAGTCACAGACTACACAGA
18-1R M13-GCCATTCTTTAAGACAGCTAA 18-2F M13-TGAACTTACAGATGGTGG 18-2R M13-CTGAATCAATGACTGATTTTTACC 341	10	225	18-1F	M13-CTCAGTTATTCAGTGACTTGT
19	18	335	18-1R	M13-GCCATTCTTTAAGACAGCTAA
18-2R MI3-CTGAATCAATGACTGATTTTACC 19F MI3-GGCAGTTCTAGAAGAATGAAAA 19R MI3-GCAAGAGACCGAAACTCC 20F MI3-GGATTACAGATGTGAGCCA 20R MI3-GTCTCTAAGACTTTGTTCTCATA 21F MI3-GCTTGGTTCTTTAGTTTTAGTTG 21R MI3-CTTCTCACCTTGAATAATCATC 22-1F MI3-GGAACTTTTTTGTTCTGATTGC 22-1R MI3-CCTTGATAAACCTTGTTCC 22-2R MI3-GGATTATAATCACAGG 22-2R MI3-GGATTTATAATCATTTTGTAGAAC 23-1F MI3-GAGGATCTGTATTATTTTGAAAC 23-1R MI3-GCTAACTGTATGTAGCTCTTTC 23-2F MI3-CAGAAGGAAAGAGATACAGAAT 23-2R MI3-CATAAACTAACAAGCACTTATC 24F MI3-CTTGTTAGTTTATGGAATCTCC 24R MI3-CCACACTGGTAGCTCCAAC 25-1F MI3-GCATCTAAAATTCATCTAACAC 25-1F MI3-GCATCTTAAAATTCATCTAACAC 25-1F MI3-GCATCTTAAAATTCATCTAACAC 25-1F MI3-GCATCTTAAAATTCATCTAACAC 25-2F MI3-GCATCTAAAAGTTTTGGATAGAC 25-2F MI3-GCATCTAAAAGTTTTGGATAGAC 25-2F MI3-GCATCTAAAAGTTTTTGGATAGAC 25-2F MI3-GCATCTAAAAGTTTTTGGATAGAC 25-2F MI3-GCATCTAAAAGTTTTTGGATAGAC 25-2F MI3-GCATCTAAAAGTTTTTGGATAGAC 25-2F MI3-GCATCTAAAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTT		210	18-2F	M13-TGAACTTACAGATGGGTGG
19F MI3-GGCAGTTCTAGAAGAATGAAAA 19R MI3-GCAAGAGACCGAAACTCC 20F MI3-GGATTACAGATGTGAGCCA 20R MI3-GTCTCTAAGACTTTGTTCTCATA 21F MI3-GCTTGGTTCTTTAGTTTTAGTTTG 21R MI3-CTTCTCACCTTGAATAATCATC 22-1F MI3-GGAACTTTTTTGTTCTGATTGC 22-1R MI3-GGAACTTTTTTGTTCTGATTGC 22-1R MI3-GGAACTTTTTGTTCTGATTGC 22-2R MI3-GAGCCTTGAATAATCACAGG 22-2R MI3-GGATCTGTATTTATTTTGAAAC 23-1R MI3-GAGGATCTGTATTTATTTTGAAAC 23-1R MI3-GCTAACTGTATGTTAGCTCTTTC 23-2F MI3-CAGAAGGAAAGAGATACAGAAT 23-2R MI3-CCATAAACTAACAAGCACTTATC 24F MI3-CCATAAACTAACAAGCACTTATC 24R MI3-CCATCGTAGCTCCCAAC 25-1R MI3-CCATCGTAGCTCCCAAC 25-1R MI3-CCATAGAGCTTAATATCATCCC 25-1R MI3-CATATGAGGCTTAATAATCCC 25-1R MI3-CATATGAGGCTTAATAATCCC 25-2F MI3-GCATCATAGAACCCCCCCCCCCCCCCCCCCCCCCCCCCC	10		18-2R	M13-CTGAATCAATGACTGATTTTTACC
19R M13-GCAAGAGACCCAAACTCC	19		19F	M13-GGCAGTTCTAGAAGAATGAAAA
200 299 208 M13-GTCTCTAAGACTTTGTTCTCATA 21		341	19R	M13-GCAAGAGACCGAAACTCC
20R M13-GTTCTCTAAGACTTTGTTCTCATA	20	200	20F	M13-GGATTACAGATGTGAGCCA
21 247 21R M13-CTTCTCACCTTGAATAATCATC 22 191 22-1F M13-GGAACTTTTTGTTCTGATTGC 22-1R M13-CCCTTGATAAACCTTGTTCC 252 22-2F M13-GAGCCTTGAATAATCACAGG 252 22-2R M13-GGATTTATAATCATTTTGTTAGTAAG 23 212 23-1F M13-GAGGATCTGTATTTATTTTGAAAC 23-1R M13-GCTAACTGTATGTTAGCTCTTTC 23-2F M13-CAGAAGGAAAGAATACAGAAT 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC	20	299	20R	M13-GTCTCTAAGACTTTGTTCTCATA
21R M13-CTTCTCACCTTGAATAATCATC	21	247	21F	M13-GCTTGGTTCTTTAGTTTTAGTTG
22 191 22-1R M13-CCCTTGATAAAACCTTGTTCC 252 22-2F M13-GAGCCTTGAATAATCACAGG 252 22-2R M13-GGATTTATAATCATTTGTTAGTAAG 23 212 23-1F M13-GAGGATCTGTATTTATTTTGAAAC 23-1R M13-GCTAACTGTATGTTAGCTCTTTC 23-2F M13-CAGAAGGAAAGAGATACAGAAT 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC	21	247	21R	M13-CTTCTCACCTTGAATAATCATC
22-1R M13-CCCTTGATAAACCTTGTTCC 252 22-2F M13-GAGCCTTGAATAATCACAGG 22-2R M13-GAGGATTTATAATCATTTTGTTAGTAAG 23 212 23-1F M13-GAGGATCTGTATTTATTTTGAAAC 23-1R M13-GCTAACTGTATGTTAGCTCTTTC 23-2F M13-CAGAAGGAAAGAGATACAGAAT 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC	22	101	22-1F	M13-GGAACTTTTTGTTCTGATTGC
252 22-2R M13-GGATTTATAATCATTTTGTTAGTAAG 23-1F M13-GAGGATCTGTATTTATTTTGAAAC 23-1R M13-GCTAACTGTATGTTAGCTCTTTC 23-2F M13-CAGAAGGAAAGAGATACAGAAT 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC 25-2F M13-GGCAATAAAGTTTTGGATAGAC 25-2F M13-GGCAATAAAGTTTTTGGATAGAC 25-2F M13-GGCAATAAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	22	191	22-1R	M13-CCCTTGATAAACCTTGTTCC
22-2R M13-GGATTTATAATCATTTTGTTAGTAAG 23-1F M13-GAGGATCTGTATTTATTTTGAAAC 23-1R M13-GCTAACTGTATGTTAGCTCTTTC 23-2F M13-CAGAAGGAAAGAGATACAGAAT 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC 25-2F M13-GGCAATAAAGTTTTTGGATAGAC 25-2F M13-GCACATAGAC 25-2F M13-GCACATAGA		252	22-2F	M13-GAGCCTTGAATAATCACAGG
23 212 23-1R M13-GCTAACTGTATGTTAGCTCTTTC 24 23-2F M13-CAGAAGGAAAGAGATACAGAAT 24 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC		232	22-2R	M13-GGATTTATAATCATTTTGTTAGTAAG
23-1R M13-GCTAACTGTATGTTAGCTCTTTC 23-2F M13-CAGAAGGAAAGAAT 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC	22	212	23-1F	M13-GAGGATCTGTATTTATTTTGAAAC
24 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25 M13-GGCAATAAAGTTTTGGATAGAC	23	212	23-1R	M13-GCTAACTGTATGTTAGCTCTTTC
24 23-2R M13-CCATAAACTAACAAGCACTTATC 24F M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC		171	23-2F	M13-CAGAAGGAAAGAGATACAGAAT
284 M13-CTTGTTAGTTTATGGAATCTCC 24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC	24		23-2R	M13-CCATAAACTAACAAGCACTTATC
24R M13-CCAACTGGTAGCTCCAAC 25-1F M13-GCATCTTAAAATTCATCTAACAC 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC	24	204	24F	M13-CTTGTTAGTTTATGGAATCTCC
25 25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC		284	24R	M13-CCAACTGGTAGCTCCAAC
25-1R M13-CATATGAGGCTTAATAATGTCC 25-2F M13-GGCAATAAAGTTTTGGATAGAC 234		150	25-1F	M13-GCATCTTAAAATTCATCTAACAC
25-2F M13-GGCAATAAAGTTTTGGATAGAC	25	159	25-1R	M13-CATATGAGGCTTAATAATGTCC
	25	234	25-2F	M13-GGCAATAAAGTTTTGGATAGAC
			25-2R	M13-CCAAAATGTGTGGTGATGC

26	268	26F	M13-GGAAATACTTTTGGAAACATAAATAT
20		26R	M13-GGCCTCCATATATACTTCTTA
	241	27-1F	M13-GCGTGCTTAAATATTTTCAATGAA
		27-1R	M13-GCAGTTCTTTTGGTCATCAATC
	235	27-2F	M13-CCCAGATGACTTCAAAGTC
		27-2R	M13-GGAGTCATCTGAGGAGAATT
27	187	27-3F	M13-CTGCACAGAAGGCATTTCA
21	187	27-3R	M13-CCAGACAAAAGAGCTTGGG
	227	27-4F	M13-GGAAAGTAATTCAATAGCTGAC
	221	27-4R	M13-CCTGCTTATTTTCTCACATTC
	179	27-5F	M13-CCACCAGTTCAGAAGATTATC
	179	27-5R	M13-GGTTAAGCGTCAATAATTTATTG