Table S2. Primers used in Sanger sequencing

Position	DNA Primer	Product Length	RNA Primer	Product Length
chr1:138950859	TTCAACACCCTCAGAAACAA, TGTTGACTTCCACCTCTAAT	302	TGCCTTTGATTCATTCATGC, GATCAGACCATCCGAGTGTG	378
chr6:129544096	TGTGGTTTTTCCCACCTCTC, TGTTTCCATTGCTTCCCAAT	537	GGTACTGCCAGTCGATCCAT, GGTGCAACGAGGTCTTCTGT	471
chr6:38781096	TCGTCTGCTACCAGGAAACC, TTTCTCGCTTCTGCAAGGAT	641	CCCGATTAACACCAAGCAGGATCG, CCACCGGGAGAGCAAGACCG	249
chr7:89331048	TATTGAGCAGCCTGTGTTGC, ACAGGCAATGACCTGGTAGC	536	TATTGAGCAGCCTGTGTTGC, ACAGGCAATGACCTGGTAGC	536
chrX:150275345	TAGACTGCCCACTCCTGGTC, GTCTTCTGCCAAGTGGGATG	503	GTTGAAGGTGGTGCTGGTTT, CCCATGCATTTGGAAGATTT	618
chr10:26945910	CTGACAGCCAGAGAGCACAG, CGGGATTTGAAACTCCAATG	501	CTGACAGCCAGAGAGCACAG, CGGGATTTGAAACTCCAATG	501
chr10:26945919	CTGACAGCCAGAGAGCACAG, CGGGATTTGAAACTCCAATG	501	CTGACAGCCAGAGAGCACAG, CGGGATTTGAAACTCCAATG	501
chr10:26945949	CTGACAGCCAGAGAGCACAG, CGGGATTTGAAACTCCAATG	501	CTGACAGCCAGAGAGCACAG, CGGGATTTGAAACTCCAATG	501
chr11:5028364	ACCGAGATAGCTGAGCAGGA, TTTGGTTAGCTGTGGTGCAA	640	CTCTAAGGGCCTCCAGATCC, GTGGTGCAATTGCCAGTTCT	516
chr12:73754116	CCAGACATTACATGCCTTCAGA, TCCTGAAGTTGTGGCAGGAC	530	CCAGACATTACATGCCTTCAGA, TCCTGAAGTTGTGGCAGGAC	530
chr17:24407704	CCAGGTCAGGATCGTGCTTA, CGTTAGCATGGTGACAGCTC	652	TCACAGGAAGCATTGTCTGC, CTCCTTGACTGGCCATTGTT	448
chr5:72269698	CTCTTCCTCCTCTTCGGACA, CTTGGGTAGGTGGTGCCATC	315	CTCTTCCTCCTCTTCGGACA, CTTGGGTAGGTGGTGCCATC	315
chr6:153684514	AGCATCTCACGAGCTGTGTT, TATTCTGATGGAATCCACCT	250	CTGGCTGACATTGTCAATAT, CCACCTCACTGTTGCTGTAG	403
chrX:152404069	CTGTGGTGTGGCTTATGTGG, ACGTGGTGGGCAGGATATT	519	CTGTGGTGTGGCTTATGTGG, TCAGGTAAACGCCATTCTCC	329
chr11:47207718	CCACCACCTTCTCTCCTTTG, GGTGGCAGCAGAATGTAGGT	544	TGCTCACTTCTGTCCCATGA, AATTCAGGCTGGGAGCTAGG	646
chr7:54257914	ATCACCAGAGGAGGGAGAGT, TGTTTGCCTGTGTGAACAGT	299	TACGAAACCTAGCGGACAAG, GTCAGAGTCCACATCAGCAA	491
chr7:54257915	ATCACCAGAGGAGGGAGAGT, TGTTTGCCTGTGTGAACAGT	299	TACGAAACCTAGCGGACAAG, GTCAGAGTCCACATCAGCAA	491
chr5:149561914	GCCTCAGAAGTCCAAACCAG, CCAAGAAGGCATGGAATGAT	538	CAGCAGATTTAGCCCCTACGAGTG, TTAGGTGTTGCGATGCCATAGCC	585
chr5:149561918	GCCTCAGAAGTCCAAACCAG, CCAAGAAGGCATGGAATGAT	538	CAGCAGATTTAGCCCCTACGAGTG, TTAGGTGTTGCGATGCCATAGCC	585
chr1:134852231	CCCCTTTCTTCTCTTCCTGA, GAATAGCAGGGTCAGGGTTC	249	CCCCTTTCTTCTCTTCCTGA, GAATAGCAGGGTCAGGGTTC	249

chr3:13010093	CCGATGTTGTCACCACAGAC, TGCGGTAACAGTAGCAATGG	503	ATCGTTGACAGCTCCGATGT, AGCAATGGAGTTGACCGAAC	504
chr7:43601461	GACAGCCGAAAGGAGCA, GGAGGGACAAGTCTACAGAC	194	CTTCAGATAGTACGCCATCAGC, TCATGAGGAACCACTCAGATTC	292
chr2:78236903	GTGACTGGGTGACATCTGTG, CTGGGTTCAGAGTCTCTGAA	297	CCATTCTCATGAGGGATGAA, TGACCATAAAAATGGGTCGT	337
chrX:148223918	TGTCAGTATGGAGTCAGTTT, TTTGCTTCTGGCATCATTAC	441	TGTCAGTATGGAGTCAGTTT, TTTGCTTCTGGCATCATTAC	441
chr19:8593542	TGCATTCAGAATCTTCAGTCAG, CTTTCTGTTGGAGCCCAACT	370	GCAGGCTGTGAACAGGGGAG, TGGGTGAGGCCACCTTGTAG	332
chr4:33833717	CATGAATTCCATCCGCATAG, CTTGAAGAGGCGAAGGATGT	403	CATGAATTCCATCCGCATAG, CTTGAAGAGGCGAAGGATGT	403
chr4:44072645	TGAGCCTCCTCTCAGCCATAG, CCTGCCTTCCTAGAGTGGAGA	374	AGGCAGCTATTCGGTTTGAG, ATCTTCTTGTCCAGCTTGGC	370
chr8:9841193	TGCCAGCACTGTGTTGTGTC, GGTATCGCTTTCTTGGCATGTC	363	TGCCAGCACTGTGTTGTGTC, GGTATCGCTTTCTTGGCATGTC	363
chr5:149585132	ATGTGGACCTACATGAGGAGTG, GCAAACCAAACAAAACAAAATCC	426	ATGTGGACCTACATGAGGAGTGC, GGATGTAGAATACTCCAGCAACG	388
chr8: 39450062	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541
chr8:39450072	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541
chr8:39450161	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541
chr8:39450163	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541
chr8:39450164	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541
chr8:39450177	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541
chr8:39450205	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541
chr8:39450228	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541	CTTGTGTGCTTGCATGATCAG, TCAAATGGAAGGAGGTACGC	541
chr1: 115892295	ATTCTGGTCCACCTTCCCTC, CCAGAAAAATTTGGCACCAGAC	247	ATTCTGGTCCACCTTCCCTC, CCAGAAAAATTTGGCACCAGAC	247
chr8: 76047235	TCCCTAATTCCTTCAGTCAGAAC, AGTTAATCTGCCCATGGAATGC	441	TCCCTAATTCCTTCAGTCAGAAC, AGTTAATCTGCCCATGGAATGC	441
chr4: 97883996	TATGCTCATAGGACAAACTTGC, CCAATAAAGTCAAACAAGACTGG	399	TATGCTCATAGGACAAACTTGC, CCAATAAAGTCAAACAAGACTGG	399
chr4:97883987	TATGCTCATAGGACAAACTTGC, CCAATAAAGTCAAACAAGACTGG	399	TATGCTCATAGGACAAACTTGC, CCAATAAAGTCAAACAAGACTGG	399
chr4:97883969	TATGCTCATAGGACAAACTTGC, CCAATAAAGTCAAACAAGACTGG	399	TATGCTCATAGGACAAACTTGC, CCAATAAAGTCAAACAAGACTGG	399
chr4:97883925	TATGCTCATAGGACAAACTTGC,	399	TATGCTCATAGGACAAACTTGC,	399

	CCAATAAAGTCAAACAAGACTGG		CCAATAAAGTCAAACAAGACTGG	
chr4:97883906	TATGCTCATAGGACAAACTTGC, CCAATAAAGTCAAACAAGACTGG	399	TATGCTCATAGGACAAACTTGC, CCAATAAAGTCAAACAAGACTGG	399
chr19: 63670112	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517
chr19:63670139	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517
chr19:63670207	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517
chr19:63670226	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517
chr19:63670259	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517
chr19:63670260	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517
chr19:63670267	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517	TGAATGTGGGAAATCCTTCG, GCGTGAACCACATCATTCTC	517
chr6: 128380975	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128380981	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128380987	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128380993	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381035	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381096	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381102	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381104	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381114	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381117	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381118	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381143	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381163	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6:128381165	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385

chr6:128381178	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385	CTAGATAGTTCCTGAATATTTTAATGAGC, CTTTTTGTTTGGAGACAGGG	385
chr6: 44916092	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449
chr6:44916093	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449
chr6:44916100	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449
chr6:44916227	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449
chr6:44916228	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449
chr6:44916244	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449
chr6:44916261	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449	TGTTGGTTGAATGGATGTGA, CATACATAGGAAATGCATGGAG	449
chr1:111948134	GCAGGTGTCTGTCAGGATTC, AATGATACCAGTCAGGAATAAAGTC	537	GCAGGTGTCTGTCAGGATTC, AATGATACCAGTCAGGAATAAAGTC	537
chr1:111948172	GCAGGTGTCTGTCAGGATTC, AATGATACCAGTCAGGAATAAAGTC	537	GCAGGTGTCTGTCAGGATTC, AATGATACCAGTCAGGAATAAAGTC	537
chr1:111948199	GCAGGTGTCTGTCAGGATTC, AATGATACCAGTCAGGAATAAAGTC	537	GCAGGTGTCTGTCAGGATTC, AATGATACCAGTCAGGAATAAAGTC	537
chr6:146462770	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376
chr6:146462771	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376
chr6:146462792	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376
chr6:146462804	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376
chr6:146462864	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376
chr6:146462894	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376
chr6:146462926	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376
chr6:146462943	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376	GAGACAGTCATCCAGGCCAG, CGTCTTAAGCATGTATTCATTACTCTG	376
chr1:4728531	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551
chr1:4728555	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551
chr1:4728570	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551
chr1:4728583	TGCACCTCTCCTTACACCAG,	551	TGCACCTCTCCTTACACCAG,	551

	CTGACCTGTGTGTGGAGGAC		CTGACCTGTGTGTGGAGGAC	
chr1:4728597	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551
chr1:4728627	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551
chr1:4728628	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551
chr1:4728737	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551	TGCACCTCTCCTTACACCAG, CTGACCTGTGTGTGGAGGAC	551
chr1:4728923	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419
chr1:4729000	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419
chr1:4729050	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419
chr1:4729089	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419
chr1:4729090	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419
chr1:4729110	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419
chr1:4729136	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419	CACGTGATGACCCATCTTCG, TGCCTTGATGGTAGACTGAAATG	419
chr16:43522348	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507
chr16:43522351	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507
chr16:43522380	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507
chr16:43522387	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507
chr16:43522391	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507
chr16:43522467	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507
chr16:43522470	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507
chr16:43522496	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507
chr16:43522534	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507	GGCATTAGCCTTCACTGGAATAC, TATTTTCTTGAGCCTGACTGCTG	507