Appendix 1. The list of primers for exons.

Primer	**sequence 5′ to 3′**	**Primer**	**sequence 5′ to 3′**
Forward 1	GCGGACGATACTTGAAGAGGT	reverse 1	CCAGGAAGCTGTCAGGCA
Forward 2	CGCCTCGGGGATTTGTCT	reverse 2	CCGTTGTTCTGGATCTTGAAAC
Forward 3	AGTGTCCCAAGCTACCAACC	reverse 3	AACCTCAAGCAAAGTATCCC
Forward 4	ATAGCAAAGTTTGTGAGGGAC	reverse 4	GAAGGCAGATGTTCTAGTGAA
Forward 5	TTACAGGCATGAGCCACTG	reverse 5	GTCCCAGGTAATCGAAGAAA
Forward 6	TGCTTCACGGAATGAGACCA	reverse 6	GGACCTTCCCAATGACAAAT
Forward 7	GTCAAGCAAGATGGAGCAC	reverse 7	GGGAATGGTTGGCAAGAA
Forward 8	ATGGAAGGTGGGAAAACAAA	reverse 8	CATTCACAGGGATGACAAAGA
Forward 9	GTTTCCAGGGACATGATTTG	reverse 9	CAAGGTGCCTCTGTTCTTTA
Forward 10	GGGTATGGAATGTGGGACTT	reverse 10	CATTGCCACTGGGCTTGT
Forward 12	TGTTGTCACCAGACGACCT	reverse 12	GGATGTTAGCCCAGTAAGAC
Forward 13	CCAGTCTTCAAATGGCTAAT	reverse 13	GTCTTTCAGAATGACAATAGGTG
Forward 14	ATGCACATGCCAAAACTCAA	reverse 14	TCCCAAACCAAAATTCAAGG
Forward 15	GATGAAAGTTAGCCTTAGTCTG	reverse 15	TTGGATGGCTGGATTTA
Forward 16	AAGGAAAATGAGAATGCC	reverse 16	ACTGACCCTGTTGGTTTG
Forward 17	GGGATGATGGATAAATAAAGC	reverse 17	CCTCAATGGTGGCAGAAG
Forward 18	CAAAACCAAGGGCAGGAT	reverse 18	TGGAAACCCACAAGAAAGC
Forward 19	CCTGTAGCTCCTAAGGTCATT	reverse 19	GCTAACATCCGAAGTATAAAGTG
Forward 20	GGTCAAGCCTCTGTTTTCC	reverse 20	CAACTAAACTGGCATAACTGTCT
Forward 21	GGGATTAAGGATATGTAGTAGC	reverse 21	CAATGACAGTCTGCCAGC
Forward 22	TACTTAATGTCAGCTTTTCCTG	reverse 22	ATTTGACACTTCTTATTTCCC
Forward 23	CATGTTCCAGGTCATCTTTC	reverse 23	GCTTTATCCAGTCCGAGTTA
forward 24	GTGGGCTCGTTCTGGTTG	reverse 24	CCCTATCGGACATGCTGA
Forward 25	CTTTATTAGGCAAGGATACTTACC	reverse 25	GATGTTCAAGTAGAGTGCTGAGAT
Forward 26	TGGGCATTGAGACCTCCT	reverse 26	AATGATCCCAAACTTACCCAT
Forward 27	TGGGCATTGAGACCTCCT	reverse 27	TCCACTTTCATAGCCTTCGT
Forward 28	CAAGATGGACACCCAGCAA	reverse 28	CCCTATGAGGTTCACGCAA
Forward 29	GTGTATCGGTAAGGAGAAAGACT	reverse 29	CAGGGAAACAAGAAAGATAAGTA
Forward 30	TAAATAGTGTTACAATGGCAGTT	reverse 30	GCCTGCTTGACTCCAAAG

Forward 31	AGGATAACCCAATGGGCTAG	reverse 31	GCTCTCTTTGGAATGCTGGT
Forward 32	TGAAAGCCAGTCTGAATAATG	reverse 32	TTCAAAGAAGTGGAAGCTAAAT
Forward 33	GGGAAGTTTGAAGGCAAGT	reverse 33	CATTATTAACAGAAAGGGTGGT
Forward 34	CGGGTGGATTGGAGATGG	reverse 34	TAGCCTGAGAAATGTGGAATGC
Forward 35	TCAGTGTTAGCCTACCAAAGAG	reverse 35	CCTAATCCCTCTACAAACTGAAC
Forward 36	GTGCCCAGATTGGTGTTAGA	reverse 36	CTACAAACTGTGCTCCTTCAAT
Forward 37	CTGGGATTACAGGCGTGAG	reverse 37	GAGAATGGAATGTTTGGTGCT
Forward 38	GTGTATAATGTTCATGGGCACT	reverse 38	CTCTCGAATTGGGAATAAGG
Forward 39	CTTACTTCAGACGGGCAGAG	reverse 39	CAGGACCATTTACCATCACAC
Forward 40	GGTTTCCGACCAAATCCTATC	reverse 40	ATCTACCTGGCTATGTTCGTGTT
Forward 42	ACTTGCTTGTTGAGTATCCACT	reverse 42	CTTCCTTCGCTAAGACTGATT
Forward 43	AATGAGTGGCATGTGATCTGG	reverse 43	TGGAGCTGCACAGGGTGT
Forward 44	GTTGATGTCCCTATTGCCA	reverse 44	CCATGCCCTTTACTATTTCTAG
Forward 45	GAGAGGCTTTGTTGACTGGA	reverse 45	TGCGAATGATTTACTTCTTGTT
Forward 46	CTGACTATGCCTGGTAAATGAG	reverse 46	ATGTTCAGATTGCCAAAGATTA
Forward 47	ATCAAGAAGTTCTCAGCCTAT	reverse 47	ATTTGACAAGTCCCATAACC
Forward 48	ATTGGCATTTCTTGTTTGG	reverse 48	CAAGCCTTTATAGGGAGGAT
Forward 49	AATTTTAATTGTTTGATGGAAGTC	reverse 49	TGTCTTGCCAGAAGGATGAG
Forward 50	AGGCAGTTGCACATTCCA	reverse 50	AGACCTCTGGGTGAATGAAA
Forward 53	AGTTGCCTGTGCTGGATTC	reverse 53	TCAGTGCCATCTTGGTACCT
Forward 54	GCTGAGGCATGAGATTCAC	reverse 54	CAATTGTTCCCAGGATCAG
Forward 55	TACCAGGACAACAAACATAAACT	reverse 55	ATTCCCAGCCTTCTCCTACT
Forward 56	GAACAAAGGGAGGGAAGGAG	reverse 56	CAGTCATTACGGCATCTCCA
Forward 57	GCTTTCCCCTCTTGCTTCTT	reverse 57	GGCACATATTGCAACTCCA
Forward 58–59	CACTGAAGTGACCCCCTACAT	reverse 58–59	AAGCACCTCCTGCCTGTAGA
Forward 60	AATCAAACGTGGAGCTGCTT	reverse 60	AAAGGCCAAATAAGGCCAAC
Forward 61	AGCGTTGTTGGCCTTATTTG	reverse 61	CCTGGGCTCAGATCTGCTAT
Forward 62	TAGGATGTGTAGGGGCCAGA	reverse 62	TTCAACCAGGTTAGGGCAAT
Forward 63	AGCCACCTCTGCCTGTCTTA	reverse 63	AAAGCATGGTTCTCCTCTGC
Forward 64	TCACAACTGCAAGGAACAGG	reverse 64	ACACTTTGGAGCATCCTTGG
Forward 65	GCAGCATAAGGCAGAAAATTG	reverse 65	TCACCTGTACCTTGCTTTGG