1 ATGGCTCCTT GTGCATGTTC ATTCCCTGCC ATTATTAGCT GCTGTGCAGC TGCTTCAGAA
61 CCTCAAAAGT CCTCTCCTTT TGCTTCCCAT TTGCTTGGTG GATCAGATCT GGGTTTCCAC
121 CCATTGCTTA AGCTCAATCA GGTGAAGAAA AGGCCAGGTG TGGTTTATGC ATCACTATCA
181 GAAGGAGCTG AATATTACTC CTCAAGACCA GCAACGCCTC TCTTGGACAC TATAAACTAT
241 CCAATTCATA TGAAAGATCT CTCTGTCAAG AAACTGAAAC AACTAGCTGA TGAACTGCGG
301 TCTGATGTGA TTTTCAACGT TTCAAAAACT GGGGGTCACT TGGGGTCAAG CCTTGGCGTG
361 GTTGAACTCA CTGTGGCTCT TCATTATGTC TTTAATGCCC CTAGAGACAA GATATTATGG
421 GATGTTGGTC ATCAGTCTTA CCCTCATAAA ATCTTGACCG GGAGAAGAGA TAAGATGCAT
481 ACCATGAGGC AAACTAATGG ATTGGCCGGA TTCACGAAAC GAGCGGAGAG TGAATATGAT
541 TGCTTTGGGA CTGGTCATAG TTCAACCACA ATCTCTGCTG GCTTGGGAAT GGCTGTAGGA
601 AGGGATCTGA AAGGTGAAAG GAATCATGTT GTTTCTGTCA TAGGCGATGG TGCCATGACC
661 GCGGGACAGG CTTATGAAGC AATGAACAAT GCCGGATACC TGGATTCCGA TATGATTGTT
721 ATTCTTAATG ACAATAAACA AGTTTCTCTG CCAACTGCCA CTCTTGACGG ACCTATACCG
781 CCCGTGGGAG CTTTGAGCAG TGCTCTGAGT AGGCTGCAAT CAAACAGGCC TCTTAGAGAA
841 CTGAGAGAGG TCGCAAAGGG AGTTACAAAG CAAATCGGTG GGCCCATGCA CGAACTGGCC
901 GCAAAAGTTG ATGAGTATGC TCGTGGGATG ATAAGTGGTT CCCGTTCAAC ATTTTTTGAA
961 GAACTTGGAC TGTATTATAT TGGACCTGTT GATGGTCACA ACATCGATGA TTTAGTTTCA
1021 ATTCTCAAAG AGGTTAAGAC TACTAAAACA ACTGGTCCGG TCTTGATCCA TGTTGTCACT
1081 GAGAAAGGCC GAGGTTATCC ATATGCAGAG AGAGCTGATG ACAAGTACCA TGGAGTGGTG
1141 AAGTTCGATC CGGCAACCGG AAAGCAATTC AAAGGCAGTT CTGTTACCCA GTCTTACACT
1201 ACATATTTTG CTGAGGCTTT GATTGCAGAA GCCGAGGCTG ACAAAAATAT CGTTGCCATC
1261 CATGCTGCAA TGGGAGGTGG AACTGGATTA AACCTCTTCC TCCGTCGTTT CCCACAAAGA
1321 TGTTTCGATG TTGGGATTGC CGAACAACAT GCTGTAACCT TTGCTGCAGG GTTGGCCTGT
1381 GAAGGCTTGA AACCTTTTTG TGCAATCTAC TCATCATTCA TGCAAAGGGC TTATGACCAG
1441 GTCGTACATG ATGTTGACCT GCAGAAGTTG CCTGTAAGAT TTGCTATGGA TAGAGCTGGC
1501 CTTGTTGGTG CAGATGGTCC AACACATTGT GGGGCTTTCG ATGTCACTTT CATGGCATGC
1561 CTCCCCAACA TGGTCGTAAT GGCTCCTTCC GATGAGGCTG AGCTTTTTCA TATGGTTGCC
1621 ACAGCTGCAG CCATAGATGA CCGTCCTAGC TGTTTCCGTT ACCCGAGAGG AAATGGGATC
1681 GGAGTTCAGT TGCCGCCAGG GAACAAAGGG GTTCCTCTTG AGATCGGCAA AGGAAGGGTA
1741 CTGATTGAAG GGGAAAGAGT GGCACTATTA GGATATGGAT CTGCAGTTCA AAGCTGCTTA
1801 GCAGCCGCCT CGTTATTGGA ATCCCACGGC TTAAAGCCGA CTGTTGCGGA TGCACGATTT
1861 TGTAAACCAT TGGATCACTC CCTCATCCGG GGACTGGCAA AATCACATGA AGTTCTGATC
1921 ACAGTCGAAG AAGGATCAAT CGGGGGCTTC GGTTCTCATG TGGCACAGTT CCTAGCTCTT
1981 GATGGTGTTC TTGATGGCAA AGTAAAGTGG AGGCCGGTGG TTCTTCCCGA TCGATACATC
2041 GACCATGGCT CGCCAGCCGA CCAGTTGGCT GAAGCCGGTC TGACACCATC GCACATTGCT
2101 GCAACAGTGT TCAATGTGCT TGGACAAAAA CTAGAGGCTC TTGGGATCAT GTCCTCGAGA
2161 AACTGA

Note: The yellow background box represents the primer position for pTRV2-*HmCLA1*.
The blue background box represents the primer position for qPCR.
The wavy line represents antisense insertion of the *HmCLA1* sequence