

Appendix A The primers used for quantitative real-time PCR of *CEP* genes in apple.

Gene number	Forward primer 5'-3'	Reverse primer 5'-3'
MdCEP01	CAACTGCTGACATCCGAAGA	AGCATCTAAACCGCCTTCCT
MdCEP02	AGCTGAAGCGGCTAAAGTTG	ACTACAGGCTTTGCCACCAC
MdCEP03	GCCGATCACTTTTGATGGAC	ACCATGCATCTGATTGTAAA
MdCEP04	ACAAACCCACGAAAACAAA	CACCACCAACCTGACCACTT
MdCEP05	GGAGGAGGACGCTGAACATA	GACCCGCCTCTATCAAGACA
MdCEP06	TTCCTCTCCACATTCTGG	CTCGGCATCGTCTTACAT
MdCEP07	CACGTCATCGAGGAGAGACA	CTGCCTCTCATGTTCTGCAA
MdCEP08	ATCACGAGCATGTACGCAAG	CCAGAAGGCACCTCCACTAA
MdCEP09	ATGGAGCTCTGCAAGCAAAT	CGATTTGGACAAGAGGGTGT
MdCEP10	GACACGAGGACAATGGCTCT	TCAGCAGCCTTCTAAGCAT
MdCEP11	TTTTGGAGCAACTGGAGGAG	TCCCTCCGAGAGTTTGTTG
MdCEP12	AGGATTCCGGTCCAACCTCT	ATGGATGTTGTCTGTAAATT
MdCEP13	AAGAAGGACGATGCCGAGTA	TGAGCTTTTCGTTGATGACG
MdCEP14	TGGGAGATTGTTGGCTTC	GTTCAACAACCCACCATCTT
MdCEP15	CTCCAATTCAGGCATCTGGT	GTGGGGGTGGAGATACAACA
MdCEP16	AGATCACACGAACGGAGGAT	AAGCACTGTGATAGCCTGGAA
MdCEP17	TTCCCATCACCACATTGCTA	GCTGTTGCCTGGTGTGTAG
MdCEP18	AACCTCCCAATTCACACAA	GTGGGGGTGGAGATACAACA
MdCEP19	TCGTTTGTGCTGTTGTTTG	TCCAAGTGCTAACCCATCAA
MdCEP20	ATATTGCATTGGCGAAGGAG	AGATTGATCGCTGGAACGTC
MdCEP21	GCACAATGAACACCACTTGC	GTCTGGTTTGTGCTCTGGT
MdCEP22	TGGAGGAGGGAAGAGACTCA	GAAATGGAGGCTGTGTGGT
MdCEP23	CCAAAAGGCAAGCCACCAAC	TCTTCCAGTACCAGTTGGG
MdCEP24	AGCCACCTCAAGAGCACAAAT	CTCAAACCCTGGATCCTCAG
MdCEP25	AGCCAAAACCTCTCTCCACT	CAGGACTATGACCGGGAGAA
MdCEP26	CCAAGCTTCTGTGTGATGT	TTCGAATTAGACGGGTCTGC
MdCEP27	GTGGATGCTGCAGACTTTGA	CTCTGGCACATTCCTGACT
Md18S	ACACGGGGAGGTAGTGACAA	CCTCCAATGGATCCTCGTTA