

SL_MboI0011K15, 92.7 cM, Chromosome 6

Note: These primers were designed from the T7 BAC End

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Primer Name	Sequence (5'-3')
CMTY4C-F1	CCACACAATGTAGCAATTCACCC
CMTY4C-R1	GTTATGTCCCGATGAGTTAGCCAAAC

HUJ-VF complete sequence Ty4CF1-R1: 529 bp;

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1      CCACACAATG TAGCAATTCA CCCTTATCTC ATTCAATCAT CATTTCCTCAA CCCTTCTTCT
61     TAACATAGTT CATTAAAGCC TTTCAGATGA TCAAAAGACT TGGTATCAAA CAATGGGTTT
121    TAGCTTATCA TGCGGCTTAT CAAATGAACA AGGCTAAAGG ATTAATAGGG CTTCAGAAAG
181    GGTAATTCCA TGGTAGACAC ACAAGTAGAG TCAAGAATTG ACTATTTCAA ATAAACGGAT
241    CAATCGCATT CCCAGATTG TACAAACTAC TCATTCAACA CACACAAGAC AAGTTCTCGA
301    TATCAAGTTA AGAATGAACC AGTCAATTCT CACCGCACGT GGCATTGTGA CACATATAAG
361    AATTCATCAA CGCTTATACA AGTTGCATTA CTGTATTACT ACATAATTAA GCCTTTTTTTT
421    TAATTTTAAG TCAAACTTAA GAACACATGC TAATTACAAG GTCAACAAGT TATTGCATTG
481    TTCCAAGTAT AACTACCCAT GAAGTTTGGC TAACTCATCG GGACATAAC
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Gc171 complete sequence Ty4CF1-R1: 529 bp;

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1      CCACACAATG TAGCAATTCA CCCTTATCTC ATTCAATCAT CATTTCCTCAA CCCTTCTTCT
61     TAACATAGTT CATTAAAGCC TTTCAGATGA TCAAAAGACT TGGTATCAAA CAATGGGTTT
121    TAGCTTATCA TGCGGCTTAT CAAATGAACA AGGCTAAAGG ATTAATAGGG CTTCAGAAAG
181    GGTAATTCCA TGGTAGACAC ACAAGTAGAG TCAAGAATTG ACTATTTCAA ATAAACGGAT
241    CAATCGCATT CCCAGATTG TACAAACTAC TCATTCAACA CACACAAGAC AAGTTCTCGA
301    TATCAAGTTA AGAATGAACC AGTCAATTCT CACCGCACGT GGCATTGTGA CACATATAAG
361    AATTCATCAA CGCTTATACA AGTTGCATTA CTGTATTACT ACATAATTAA GCCTTTTTTTT
421    TAATTTTAAG TCAAACTTAA GAACACATGC TAATTACAAG GTCAACAAGT TATTGCATTG
481    TTCCAAGTAT AACTACCCAT GAAGTTTGGC TAACTCATCG GGACATAAC
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Cerasifome partial sequence Ty4CF1: 480 bp;

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1      ACCCTTCTT CTTAACATAG TTCATTAAGG CCTTTCAGAT GATCAAAAAGA CTTGGTATCA
61     AACAAATGGGT TTTAGCTTAT CATGCGGCTT ATCAAATGAA CAAGGCTAAA GGATTAATAG
121    GGCTTCAGAA AGGGTAATTC CATGGTAGAC ACACAAGTAG AGTCAAGAAT TGAATTTTC
181    AAATAAACGG ATCAATCGCA TTCCCCAGAT TGTACAAACT ACTCATTCAA CACACACAAG
241    ACAAGTTCTC GATATCAAGT TAAGAATGAA CCAGTCAATT CTCACCGCAC GTGGCATTGT
301    GACACATATA AGAATTCATC AACGCTTATA CAAGTTGCAT TACTGTATTA CTACATAATT
361    AAGCCTTTTT TTTAATTTTA AGTCAAACCTT AAGAACACAT GCTAATTACA AGGTCAACAA
421    GTTATTGCAT TCTTCCAAGT ATAACTACCC ATGAAGTTTG GCTAACTCAT CGGGACATAA
481    C
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Conclusions

Complete sequence was obtained for HUJ-VF and Gc171, and partial sequence was obtained for Cerasifome using standard sequencing methods. Upon alignment all tested samples matched identically. Therefore, Ty-4 is not present at this locus on Chromosome 6.