

TG0659, Chromosome XII, 11 cM

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Primers:

Table 1: PCR Primers on Chr. 12

Primer name	Sequence (5' to 3')
TG659F1	AATGGTCATGGAATGGGAAA (SGN)
TG659R1	TGCCAAGGATAAAGGAGCAG (SGN)

PCR at 53 C, (TGEN53), 1,100-bp fragment.

SEQ Gc171, 841 bp;

ORIGIN

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1      TCTCAGTGGA CTAAGGGGTC ATATACTTCT TACAGGAACA GCTCACTTCT TCAGAGTAAG
61     TCTTTGATTA GTTGTTCCTT CTGCTTTTGT TATTAAAGTT GCTTGCATCA CCAGTGATAC
121    TTTCATGAAC TTTAAGCTTC ATTCAGGAAC ATTTAAACAC CTTTGAATGT TTGTTTTGTT
181    CATTTCTGCA AACTGTCCAG AGTAGTATTG TTTTACAAC TTTTTCAGAT TTTTGAATGA
241    TGGTTTATGA ATATTATAGA TGTTTTTTCT CTCATTTTCT GCTTGATGAT GGTGTTCCAT
301    GCATTCTAAT CGGGTGATTA ATTTAATGAT TTTATTTGGG GTTTTTCATGA TATGTAACTC
361    CAAATGTTCA TCTTGATTAT CTGGACTACA CAGCTTTATA ATCTGAAGAT AAGGTGTGTC
421    ATCAACTAAT TCGTGTTCTT ATTTTGCCTT TCAATTTTCGT AAGGCTGTTC AGGATGAGTC
481    TGTCAAACAA AAAGAGGCTT TAGCAAGTGA AGTAGGATTC TTGCGAGGAG ATCTGCAAAA
541    AATGAGGGAT GATCGTGATC AGCAATCGTT ACAAGTTCAG GTTCTAACAG ATGAAGTGCT
601    AAAATATAAG GAATGCACTG GAAAATCTAT TGCCGAGTTA GAAGGCATGG CAATAAAGAC
661    CAATCAGCTG GAGGTTTGTC TGTTTTGATT TATCTCAACT AGGCAAACCC AAATATATGC
721    GTGCATCAGA TAATTATCTA CCCAAAGATA TATGTGCATC AGATAATAAT CTCTTCCTGA
781    ATTATTTTGC AGGAGACATG TTTGTCTCAG TGTGAACAAA TAAAGAGATT GCAGCAACAA
841    CTTGCCTTTG CGGAGAAAAA ACTTGAGGTG ACAGCATTTC TATGACCC
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Comments: Sequence Gc171=M82=Heinz=Gc143-2=Glh902=Gc143-4=Gc43-3=Gh13 (no introgression from wild species associated with begomovirus-resistant germplasm from Guatemala)