

TG180, Chromosome XII, 9 cM

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Primers:

Table 1: PCR Primers on Chr. 12

Primer name	Sequence (5' to 3')
TG180F1	TCTCAGTGGACTAAGGGGTCA (SGN primers)
TG180R1	TCACAGCAGACATGTCCGGAC (SGN primers)

PCR at 53 C, (TGEN53), 1,000-bp fragment.

SEQ M82, 841 bp;

ORIGIN

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1      TCTCAGTGGA CTAAGGGGTC ATATACTTCT TACAGGAACA GCTCACTTCT TCAGAGTAAG
61     TCTTTGATTA GTTGTTTCTT CTGCTTTTGT TATTAAAGTT GCTTGCATCA CCAGTGATAC
121    TTTTCATGAAC TTTAAGCTTC ATTCAGGAAC ATTTAAACAC CTTTGAATGT TTGTTTTGTT
181    CATTTCTGCA AACTGTCCAG AGTAGTATTG TTTTACAAC TTTTTCAGAT TTTTGAATGA
241    TGGTTTATGA ATATTATAGA TGTTTTTCT CTCATTTTCT GCTTGATGAT GGTGTTCCAT
301    GCATTCTAAT CGGGTGATTA ATTTAATGAT TTTATTTGGG GTTTTTCATGA TATGTAACTC
361    CAAATGTTCA TCTTGATTAT CTGGACTACA CAGCTTTATA ATCTGAAGAT AAGGTGTGTC
421    ATCAACTAAT TCGTGTCTT 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 GAGGTTTGTG TGTTTTGATT TATCTCAACT AGGCAAACCC AAATATATGC
721    GTGCATCAGA TAATTATCTA CCCAAAGATA TATGTGCATC AGATAATAAT CTCTTCCTGA
781    ATTATTTTGC AGGAGACATG TTTGTCTCAG TGTGAACAAA TAAAGAGATT GCAGCAACAA
841    CTTGCCTTTG CGGAGAAAAA ACTTGAGGTG ACAGCATTTT TATGACCC
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SEQ Gc171, 891 bp;

ORIGIN

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1      TCTCAGTGGA CTAAGGGGTC ATATACTTCT TACAGGAACA GCTCACTTCT TCAGAGTAAG
61     TCTTTGATTA GTTGTTTCTT CTGCTTTTGT TATTAAAGTT GCTTGCATCA CCAGTGATAC
121    TTTTCATGAAC TTTAAGCTTC ATTCAGGAAC ATTTAAACAC CTTTGAATGT TTGTTTTGTT
181    CATTTCTGCA AACTGTCCAG AGTAGTATTG TTTTACAAC TTTTTCAGAT TTTTGAATGA
241    TGGTTTATGA ATATTATAGA TGTTTTTCT CTCATTTTCT GCTTGATGAT GGTGTTCCAT
301    GCATTCTAAT CGGGTGATTA ATTTAATGAT TTTATTTGGG GTTTTTCATGA TATGTAACTC
361    CAAATGTTCA TCTTGATTAT CTGGACTACA CAGCTTTATA ATCTGAAGAT AAGGTGTGTC
421    ATCAACTAAT TCGTGTCTT 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 GAGGTTTGTG TGTTTTGATT TATCTCAACT AGGCAAACCC AAATATATGC
721    GTGCATCAGA TAATTATCTA CCCAAAGATA TATGTGCATC AGATAATAAT CTCTTCCTGA
781    ATTATTTTGC AGGAGACATG TTTGTCTCAG TGTGAACAAA TAAAGAGATT GCAGCAACAA
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841 CTTGCCTTTG CGGAGAAAAA ACTTGAGGTG ACAGCATTTT TATGACCCTT GTTTGTTTGA
901 ATTTACCGTG TAATATCCAA CGAGCTTTTA GAAGATATAT TTCTCAAATA TTTCAAATGT
961 TTAATCACTT TGTAAGATGT CCGACATGTC TGCTGTGA

Comments: Sequence M82=Gc171=Heinz=Gc143-2=Glh902=Gc143-4=Gc43-3=Gh13
(no introgression from wild species found in begomovirus-resistant breeding lines from
Guatemala)