

### TG66, 50.0 cM, Chromosome 3

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Primer Name	Sequence (5'-3')
CMTG66F2	GATATCTGGAGCACTGGTGTATTC
CMTG66R2	CTGGTTTTACAGTTTACTATCC

HUJ-VF partial sequence\_CMTG66R2: 395 bp;

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1      GATATCTGGA GCACTGGTGT TATTCTTTAC ATTCTTCTTA GTGGAATACC ACCATTTTGG
61     GGGAAAGACAA AGTCAAAGAT CTTTGATGCT GTCAGGGCAG CGGATTTGCG GTTTCCGTCT
121    GATCGCTGGG ATACAATATC ATCTTCAGCA AAAGAGTTGA TTAAAGGAAT GTTATGTACG
181    GATCCTTCCC AGAGGCTTAC ACCTCAGCAA ATTCTAGGTA TAATATGCAA GATATTTATC
241    AAATTCATTA TACTTGTTAC CTAAATAGAA TTGATGAATA ATCTTGACTT AGAAAATCGA
301    ACTGATTAAT GACGTTTGAT GCATCAAGAA TGTATATTAT TTGTGTTTGA CATCAGAAAT
361    TGATTTGAAA GGATAGATAG ATCAAGCACA TAAGC
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M82 partial sequence\_CMTG66R2: 393 bp;

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1      GATATCTGGA GCACTGGTGT TATTCTTTAC ATTCTTCTTA GTGGAATACC ACCATTTTGG
61     GGGAAAGACAA AGTCAAAGAT CTTTGATGCT GTCAGGGCAG CGGATTTGCG GTTTCCGTCT
121    GATCGCTGGG ATACAATATC ATCTTCAGCA AAAGAGTTGA TTAAAGGAAT GTTATGTACG
181    GATCCTTCCC AGAGGCTTAC ACCTCAGCAA ATTCTAGGTA TAATATGCAA GATATTTATC
241    AAATTCATTA TACTTGTTAC CTAAATAGAA TTGATGAATA ATCTTGACTT AGAAAATCGA
301    ACTGATTAAT GACGTTTGAT GCATCAAGAA TGTATATTAT TTGTGTTTNN NNNCAGAAAT
361    TGATTTGAAA GGATAGATAG ATCAAGCACA TAA
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Heinz 1706 complete sequence from the SGN website\_CMTG66F2-R2: 454 bp;

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1      GATATCTGGA GCACTGGTGT TATTCTTTAC ATTCTTCTTA GTGGAATACC ACCATTTTGG
61     GGGAAAGACAA AGTCAAAGAT CTTTGATGCT GTCAGGGCAG CGGATTTGCG GTTTCCGTCT
121    GATCGCTGGG ATACAATATC ATCTTCAGCA AAAGAGTTGA TTAAAGGAAT GTTATGTACG
181    GATCCTTCCC AGAGGCTTAC ACCTCAGCAA ATTCTAGGTA TAATATGCAA GATATTTATC
241    AAATTCATTA TACTTGTTAC CTAAATAGAA TTGATGAATA ATCTTGACTT AGAAAATCGA
301    ACTGATTAAT GACGTTTGAT GCATCAAGAA TGTATATTAT TTGTGTTTGA CATCAGAAAT
361    TGATTTGAAA GGATAGATAG ATCAAGCACA TAAGCTTGTG AATATAGAAT GAACCTACTA
421    AGGGTAGAAG TGGATAGTAA ACTGTGAAAA CCAG
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Gh13 partial sequence\_CMTG66F2: 377 bp;

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1      GATCTTTGAT GCTGTCAGGG CAGCGGATTT GCGGTTTCCG TCTGATCGCT GGGATAACAAT
61     ATCATCTTCA GCAAAAAGAGT TGATTTAAAGG AATGTTATGT ACGGATCCTT CCCAGAGGCT
121    TACACCTCAG CAAATTCTAG GTATAATATG CAAGATATTT ATCAAATTCA TTATACTTGT
181    TACCTAAATA GAATTGATGA ATAATCTTGA CTTAGAAAAT CGAACTGATT AATGACGTTT
241    GATGCATCAA GAATGTATAT TATTTGTGTT TGACATCAGA AATTGATTTG AAAGGATAGA
301    TAGATCAAGC ACATAAGCTT GTGAATATAG AATGAACCTA CTAAGGGTAG AAGTGGATAG
361    TAAACTGTGA AAACCAG
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Gc9 partial sequence CMTG66F2: 347 bp;

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1      GCGGTTTCCG TCTGATCGCT GGGATACAAT ATCATCTTCA GCAAAAGAGT TGATTAAAGG
61     AATGTTATGT ACGGATCCTT CCCAGAGGCT TACACCTCAG CAAATTCTAG GTATAATATG
121    CAAGATATTT ATCAAATTCA TTATACTTGT TACCTAAATA GAATTGATGA ATAATCTTGA
181    CTTAGAAAAT CGAACTGATT AATGACGTTT GATGCATCAA GAATGTATAT TATTTGTGTT
241    TGACATCAGA AATTGATTTG AAAGGATAGA TAGATCAAGC ACATAAGCTT GTGAATATAG
301    AATGAACCTA CTAAGGGTAG AAGTGGATAG TAAACTGTGA AAACCAG
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### **Conclusions**

Partial sequence was obtained for Gc9, Gh13, HUI-VF, and M82 through standard sequencing methods in our laboratory. Complete sequence was obtained for Heinz 1706 from the SGN website <http://www.sgn.cornell.edu/>. Upon alignment all sequences matched identically.

Therefore, there is no introgression related to disease resistance at this locus on chromosome 3.