

LE_HBa0215K10, 9.0 cM, Chromosome 6

Note: These primers were designed from the SP6 BAC End

Christopher Martin and Douglas Maxwell, University of Wisconsin Madison

August 9, 2007

Primer Name	Sequence (5'-3')
CM8-F1	GAGTCCCATTAGAAACTGCATC
CM8-R1	GTGCAAGATAACTCCAATCGAGAAC

Gc43 partial sequence_CM8F1: 475 bp;

```
1      CCCAAAGATT TCTCAATTTG GAATAATACT CAAAAACTGT AAAAGTTCCT TGACTCATTG
61     TACTGATTTT GCGATGAACC TGGTATATTC TAGTGAGATT ACGTTTGTCA AACCTCTCTT
121    TCAAATCCTT CCAAACATTA TGGGCATTTG ATGAAAACAT TAAGCCATTT GCTAATTCCT
181    TCGAAACAGA GTTTGTGATC CACGATAGCA CAAAAGCATT ACATCTCTCC CATTTCATGAT
241    TCAAATCTCC TTTGTAGTGA TGTTTACAAC AAGTACCATC AATAAATCCA ATTTTATTCT
301    TAGCTAACAA TGCTACTCTC ATAGAATTAC TCCACCCAGT ATAATTTTCT ATACCAGTAA
361    GTTGTGAGG  GATTAATAATG CTACCTGGAG TATCAAATGG ATGAAGATAT AAAGGATTCC
421    TTGGATGNAT ATCAGTGAAT TTGTTCGATCT GTTCTCGATT GGAGTTATCT TGCAC
```

Gc9 partial sequence_CM8F1: 434 bp;

```
1      AAAGTTCCTT GACTCATTGT ACTGATTTTCG CGATGAACCT GGTATATTCT AGTGAGATTA
61     CGTTTGTCAA ACCTCTCTTT CAAATCCTTC CAAACATTAT GGGCATTTGA TGAAAACATT
121    AAGCCATTTG CTAATTCCTT CGAAACAGAG TTTGTGATCC ACGATAGCAC AAAAGCATTAA
181    CATCTCTCCC ATTCATGATT CAAATCTCCT TTGTAGTGAT GTTTACAACA AGTACCATCA
241    ATAAATCCAA TTTTATTCTT AGCTAACAAT GCTACTCTCA TAGAATTACT CCACCCAGTA
301    TAATTTTCTA TACCAGTAAG TTGTTGAGGG ATTAATAATGC TACCTGGAGT ATCAAATGGA
361    TGAAGATATA AAGGATTCCT TGGATGNATA TCAGTGAATT TGTCGATCTG TTCTCGATTG
421    GAGTTATCTT GCAC
```

Heinz 1706 complete sequence from SGN website CMG8F1-R1: 581 bp;

```
1      GAGTCCCATT AGAAACTGCA TCAGCTTTTG TTTTCCATA TGTTCTGCAT ATACCTTGTA
61     CTTATCACAT TCACGAGCAG GTAAAGGAAC CAATGATACA TACTCATCCC AAAGATTTTCG
121    CAATTTGAAT ATTACTCAGA AATTGTAAAA GTTTCTTGAC TCATTGTACT GATTTTCGCGA
181    TGAACCTGGT ATATTCTAGT GAGATTACGT TTATCAAACC TCTCTTTTCAG ATCCTTCCAA
241    ACATTATGGG CATTTGATGA AAACATTAAG CCATTTGCTA ATTCCTTTGA AACGGAGTTT
301    GTGATCCACG ATAACACAAA AGCATTACAT CTCTCCCATT CATGATTCAG ATCTCCTTTG
361    TAGTGATGTT TACAACAAGT ACCATCAATA AATACAATTT TATTCTTAGC TAACAATGCT
421    ACTCTCATAA AATTACTCCA CCCAGTATAA TTTTCTATAC CAGTAAGTTG TTGAGGGATT
481    AAAATGCTAC CTGGAGTATC AGATGGATGA AGATATAAAA GATTCCTTGG ATGAATATCA
541    GTGAAATTGT CGATCTGTTC TCGATTGGAG TTATCTTGCA C
```

Conclusions

Partial sequence was obtained for Gc43 and Gc9 through standard sequencing methods in our laboratory. The Heinz 1706 sequence was downloaded from the SGN website <http://www.sgn.cornell.edu/>. Upon alignment Gc43 and Gc9 matched identically, but Heinz differed by 17 SNP and one INDEL.