## LE_HBa0169D11, 85.0 cM, Chr. 6

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| Primer Name | Sequence (5'-3') |
| :--- | :--- |
| CMTY4A-F2 | CCCAAGATGCTCACTGTCAATGTC |
| CMTY4A-R1 | GTTCCGAAGCTAGTTTATGTGTTTCC |

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Cerasiforme partial sequence_Ty4AR1: 324 bp;
1 CCCAAGATGC TCACTGTCAA TGTCCATTAG CTTCATCTCA AAATCAGCAA TCTTGTCTTG
61 GGCTGCAATA CATAATAGTT ATGCAAATAA GTTAAAACTA GACCATAGTA ACAGAGAGAC
121 TGAATCCATA ATCAAAATAA AATCAATAAA TCTATCATAA AAGACACGAC TCAGTCCCAA
181 TTATACCAAT TTCAAGCAAA ATCAAGCTAG TTTAAATTAT TCTATCGATC TATAGACAGT
241 GAAGTAATCA TTTCTAAAAT TCATAATTTA GAATCAAACA NGATTCCAAA CTACAAATTA
301 NTGTTCGCTT CAATTTTCCT CACA
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Gc171 complete sequence_TY4AF2-R1: 470 bp;

|  | CCCAAGATGC | TCACTGTCAA | TGTCCATTAG | CTTCATCTCA | AAATCAGCA |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61 | GGCTGCAATA | CATGATAGTT | ATGCAAATAA | GTTAAAACTA | GACCATAGTA | ACAGAGAGAC |
| 121 | TGAATCCATA | ATCAAAATAA | AATCAATAAA | TCTATCATAA | AAGACACGAC | TCAGTCCCAA |
| 181 | TTATACCAAT | TTCAAGCAAA | ATCAAGCTAG | TTTAAATTAT | TCTATCGATC | TATAGACAGT |
| 241 | GAAGTAATCA | TTTCTAAAAT | TCATAATTTA | GAATCAAACA | CGATTCCAAA | CTACAAATTA |
| 301 | CTGTTCGCTT | CAATTTTCCT | CACATTTGAC | ATGTTTAATA | AGTAATCAAA | AGCAAAAAAG |
| 361 | TGTCAATATT | TTGGGACCAG | GAGGTATCAA | TTTCAACAAT | ATATATAGCA | GATGTTATAG |
| 421 | TCTCTAGA | ATTTATA | TATGGA | CATAAACT | GCTTCGGAA |  |

HUJ-VF partial sequence Ty4AR1: 412 bp ;

| 1 | CCCAAGATGC | A | G | CTTCATCTCA | A | TCTTGTCTTG |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 61 | GGCTGCAATA | CATGATAGTT | ATGCAAATAA | GTTAAAACTA | GACCATAGTA | ACAGAGAGAC |
| 121 | TGAATCCATA | ATCAAAATAA | AATCAATAAA | TCTATCATAA | AAGACACGAC | TCAGTCCCAA |
| 181 | TTATACCAAT | TTCAAGCAAA | ATCAAGCTAG | TTTAAATTAT | TCTATCGATC | TATAGACAGT |
| 241 | GAAGTAATCA | TTTCTAAAAT | TCATAATTTA | GAATCAAACA | CGATTCCAAA | CTACAAATTA |
| 301 | CTGTTCGCTT | CAATTTTCCT | CACATTTGAC | ATGTTTAATA | AGTAATCAAA | AGCAAAAAAG |
| 361 | TGTCAATATT | TTGGGACCAG | GAGGTATCA | AAC | ATATATAGCA |  |

Conclusions
Partial sequence was obtained for both Cerasiforme and HUJ-VF, and complete sequence was obtained for Gc171 using standard sequencing methods. Upon alignment all tested sequences were identical. Therefore, this locus is not the location of Ty-4.

