

Supplementary table 1: Details to the markers used

Marker	Primers	Sequence ^a	Alleles ^b
<i>ytP159</i>	fw: TGC GTTTTCTGATCGTATTT rev: CCCTTTTGAATCAATGATGA seq: TGC GTTTTCTGATCGTATTT	TGC GTTTTCTGATCGTATTTTCGGAA TTCAAAAAATTAGATGTAGCTGTT ATGGCGTGTTC AACTGACTCGCATT TCTCGCATCTTGCATGGGTAAATAC CGACCGAAAAATGGGTGGACTTGG TCAGATGAATATACCAATTCTTGCT GATACCAATCATGCAATCAGCAAG GCATATGGTGTGCTCAAGGAAGAT GAAGGAATTGCTTATCGGTACGTA TTCTTTGATATGAGTAAGATGTGAA GCCATCGAAGGCA RCGAGCGATT GAA R ATATGTGGCATCAACTT Y AT GACTTTTTTAGAGTTATTGTTCTTC AGTTCTTGCGAATACTT Y CTCTTCT TTGTTGTGTT R TGATTGAAATGGTT GAAATCAGATTGTCATAGTTTATtG AAAACAAT R TTTGAACTTATTTTCAG TGGAY TATTCATCATTGATTCAAAA GGG	1 GACTAAC 2 GACTAGC 3 GACTGAC 4 AACTAAC 5 GACTAGT 6 GGCTAGC 7 GACCAGC 8 GATTAGC
<i>ytP161</i>	fw: TATCTCCTCTTTTCGGTGTCA rev: ATTCTGCTGAAGCTTTCCTT seq: TATCTCCTCTTTTCGGTGTCA	TATCTCCTCTTTTCGGTGTCAACTTC ACTTTTTATGACTTATCTTGC GGCA GATGGCACAACAAAGCAACAATTG CAAGATGTTCTTGGAGGAAGTAAT TACATATTGAAATTTTTTAATTTCG AAATACTGAAAAAGS AATAATCAC GCAM ATTACCTCAAAGTTGR AAKT TTGGACATCAAGAATGCT R TAACT GTAAGGATAGATTTCATAAATGW T AAAATAATCGTTTCTAAATTAR CAT AAAATCAATTTTTTCAG M TGCAAGY G AAGCGAATTTTCGATTACACTTT GCTAR GCTACTGGTAGAGATGGCA AATGTGGAAAACGA W AATTATAC GTAAATTTAGCAAAATCGCCTTTAC GTAGAGCAAACTTTCCGACAAAAG GAAAGCTTCAGCAGAAT	1 CAATATAACTAA 2 CAATATACCTAA 3 CAATATACCTGA 4 CAATAAACCTAA 5 CAATATAATTAT 6 CAATGTACCTAA 7 CAATATAACTGA 8 CAAGATGCCTAA 9 CAATATAACGAA 10 CAGTATAACTAA 11 CCATATACCTAA 12 GAATATAACTGA 13 CAATATGCCTAA 14 CAATGTAACTAA
<i>ytP162</i>	fw: AGGCACATGTTTGGTAGTG G rev: AGTTTGCCGGTCATTGATTC seq1: CCTATAGA ACTTCTCTTGAG seq2: CTCAAGAGAAGTTCTATAGG	AGGCACATGTTTGGTAGTGAAAA GTACGATATATGATTTGR TACTAA R ACTTGCCCCGACGAGCTGTAAAA TGAAGGTATGTTTCAACTATCCGAT TGCTGACCGTAATATAAAAATTGCT ATCATTCTTTCGTTTTTATTCCGAC AAATTTCTTGCCTCTATTCAAGAGG ATTCTGATGTCGATTTTTGGAAGG AAACATGAGAAAAAGTCY A M GTA CAACAAATTTTTCTATTGACTTTTT GATTGSGAAAAATATAATACGC W AA M TAY TGGCTGTATTCCAAAGCTT TAC K AAAATTTTGTAATATAATC GCAAAAA R TATGCCGCAAAGAAAA TCTACAGAATCTCGATYTTTTCGCTT ATTTTACAGGGTCTCAAGAGAAGT TCTATAGGGAAATGTAAAAGAAAC ATGAAGCAAAAACCGAAGGTTAGA GAATTATTCC R CAAAAGCAATTA TTAATGATTTCTGAGR K CGCTATT GATACATTTAGACCGTTTTTTGTAT CAAAGAY AATAACAGTATCCTTGC TGAGTTTATCTTGACACAGTGTATT TGCTATTA AAAATT M TGATAY TTTTC AGGATGTTGCTCTTAGAATACTGA	1 GGC ACT ATG AAAAT TAT 2 GGC ACT CTG AAAAT TAT 3 AGT ACT ATT GAGT CCC 4 AGC ACT ATG AAAAT TAT 5 AGC ACT ATT GAAAT TAC 6 AGC ACT ATT AGGT TAC 7 GGC ACT ATG AAAAT TCC 8 AGC ACT ATG AAGT CAT 9 AGC AGT ACG AAAAT TAT 10 GGC ACT ACG AAAAT TAT 11 AGT CCT ATT GAGT CCC 12 AGC ACT ATT GAGT CCC 13 AAT ACT ATT GAGT CCC 14 GGC ACT ATG AAAAT TAC 15 GGC ACT ATG AAAAT TCC 16 AGC ACT ATT AAAT TAC 17 AGC AGT ATG AAAAT TCC 18 GGC ACT ATT GAAT TAC 19 AGC ACT ATT GAAT TCC 20 GGT ACT ATT GAGT CCC 21 AGC ACT ATT GGGT TAC 22 GGC ACT ATG AAGT TCC 23 AGC AGT ATG AAAAT TCC 24 GGC ACAAT GAAAT TAT

		ATCAATGACCGCAAAC	25 AG C A C T A T G A A A T C C
<i>ytP164</i>	fw: GCATCTTCGCTATCCTTTGC rev: CGAATGGAAACAGCAGCAG seq: AGACTTATCCGTGGTT	GCATCTTCGCTATCCTTTGCTGCAC AAAGTCCAACGCGACTGCTTCCT AAATCATAAAA W TCAATCAATTTA AGTAATTCGCTTTAACAAAA R TAA TTAAAATAATTTTTTAATAAAAGAA TATAGAAGATTTAAAAGAAAAACC CGAAAT R AAGGAAGATTTTGATT GGTATTTGGATGAATTGTCATAAAA AAGTTTTTCATGAATTAATTAECTA TTAATTCAAY V ACATACAAATTATCC AA Y AATTATTGCAAATAAACATTA ATTAATTACACGATACATATTTTG K TAGTCATACGAACACATCAAATGT TGCTAAACTTATTCGATTTATAATT ACAAAAACAAAAAAGAAAAAT TTATCACCTGTCCGGTATATAAATG GCAAAAACCACGGATAAGTCTTTC TTTGTAAGATTTCTGCTGCTGTT TCCATTCC	1 T A G T T G 2 T A A T T G 3 T A G T T T 4 A A G T T T 5 T G G C T T 6 T A G T C G 7 T A A T T T
<i>ytP169</i>	fw: CGACATTTGCTATGGGAAGC rev: CACCATCGCAGCTGTGTACT seq: CGACATTTGCTATGGGAA	CGACATTTGCTATGGGAAGCATT AAAATGTAACGTCAAAGGTCAGG TCGCATGCAGCGATCGATCGCAA AAGATGTTGAAATACAR T T R TGGG ARCGTGATACACGTAAGTTCGACT TW T CTCATT Y TGATCGAATAC R AA GTTCTAT Y TTT C YTTTCC T AT R AA Y T GTATTTTGTATCTGATAATA A W T K AR G TGAATTTTAA S CTAAT Y K G TGATATAAAGTTTTAAATTTAATTT CTAGTGGATCCGGATGATTTGCTG AATACGACGAAGACCGA Y GCTCGT GGAAATTTCAAGATATATGGAGAA GAGAATGAAGTAAACAACATTGAA CCGTATCTAATAATAGTACACAGC TGCGATGGTG	1 A G G A C G T C G T A T A C T G T 2 A G A A C A C C A C T T A G C T T 3 A G A A C G T C G T A T A C T G T 4 A G G T A T T G T A G G C T G T 5 A G A A C A C C A C T T A C T G T 6 A G A A C A C C A T T A G G C T T 7 A G A A C A T C G T A G G C T G T 8 A G A A C A T C G T A T A C T G T 9 A G A T T A T A T A G G C T G T 10 A G G A C A T C A C T T A C T G T 11 A G G A C A C C A C T T A G C T T 12 G G A A C G T C G T A T A C T G T 13 A G A A C A C C A T A G C T T 14 A G A A C A T C G T A T A C T G C 15 A A A A C A C C A C T T A G C T T

^aPosition number 1 is the first nucleotide of the fw primer. Ambiguity codes at variable positions are in bold and color coded as follows: A or G - yellow; A or T - blue; C or T - pink; C or G - grey; A or C - red; T or G - green. The non highlighted Y in *ytP162* indicates a variable position too close to the sequencing primer for reliable detection. ^bThe bases present at the variable positions are listed in the order of occurrence.