

File S1. Sequence of PCR amplicons containing analyzing SNPs. SNP position marked red and bold, genotype in the head of sequence

SNP1

>A1095_SNP1_TT
TGAAGCGGTGTGCAGCAGTGGCGTAGTCGTCGATCCGTCCGCGTACAGACGCCCACGGGTTTTTCATTTCGGTGTG
AACAAAGAATTTCGCCAATATTTTACACTCGATTTCGGATCCTGCGACTCGCGAATATCCGTGTTCCCTTCTCTTT
TCTCACCT**T**TCTCTCTTTCCATCTTCCTTTCTCTTTCTCCCGTGGTTCAATCGAACATACGATCCATAT

>A1113_SNP1_CC
TGAAGCGGTGTGCAGCAGTGGCGTAGTCGTCGATCCGTCCGCGTACAGACGCCCACGGGTTTTTCATTTCGGTGTG
AACAAAGAATTTCGCCAATATTTTACACTCGATTTCGGATCCTGCGACTCGCGAATATCCGTGTTCCCTTCTCTTT
TCTCACCT**C**TCTCTCKTTCCATCTTCCTTTCTCTTTCTCCCGTGATTCAATCGAACATACGATCCATAT

SNP2

>A1998_SNP2_TT
TTCCTGGCCACCGATGCCACCCACGTACCTCGAAGCTGCTGTTGCGAACAACGCTCCTCCTTTTTCTTCTTCTTT
TTTACCCATTTTTTCTCCTCTCCACTCCACTTTTCTCAACCTTCTTTCCTTCTTCTT**T**TTCTTCTTCTTCTTTTTT
CTGTGCTCCACGAGAGAGAAAGAGAGAGATTTCGTGGAAAGGATCTCGATCTTCAAGAATGGCCGTCGTTTGGAATCG
ACGACAAAAGCGCCCATGGGAGAACAAGGGTTTATCCTATGCCTACGTTAGCCGTATCCGCGATTGGGGGCGTTT
ATGGCGTTTTGTCTCTTT

>A2466_SNP2_CC
TTCCTGGCCACCGATGCCACCCACGTACCTCGAAGCTGCTGTTGCGAACAACGCTCCTCCTTTTTCTTCTTCTTT
TTTACCCATTTTTTCTCCTCTCCACTCCACTTTTCTCAACCTTCTTTCCTTCTT**C**TTCTTCTTCTTTTTTCTTTTT
CTGTGCTCCATGAGAGAGAAAGAGATTTCGCGAAAAGGATCTCGATCTTCAAGAGTGGCCGTCGTTTGGAATCGAC
GACAAAAGCGCCCATGGGAGAACAAGGTTTATCCTATGCCTACGTTAGCCGTATCCGCGATTGGGGGCGTTTAT
GGGGTTTTGTCTCTTT

SNP3

>A074_SNP3_TT
CGGAATCAAAAGCAGGATTTACGCCGCTACATTTGAGTGCACAAGAAGGCCATAC**T**GATATGTCAACACTACTTA
TTGAGCACAAAGCAGATACAAATCACAAAGCAAAGGTAATAT

>A447_SNP3_TC (Y)
CGGAATCAAAAGCAGGATTTACGCCGCTACATTTGAGTGCACAAGAAGGCCATAC**Y**GATATGTCAACACTACTTA
TTGAGCACAAAGCAGATACAAATCACAAAGCAAAGGTAATAT

SNP4

>A1621_SNP4_TT
AACGTTGGACCAATTGATGGAACCGTCCGATGTTGTGGGCAACATAAGATTTCAGCCATCCAACATTATACGTCTT
CCCCGGTGGCCAAGGTGATGCCGCCCTCTTTGGCATAAACGGTTTTAACATGCTGGTCGACGG**T**GGTTTCGCAAG
GAAAGCCTGCTTTTGGGACTTTACCAGGCATCTCGACCGCCTCGACGCGGTCTTAGTTACTAGAATAAATAATAG
CAATGTGCGGCGG

>A3224_SNP4_CC
AACGTTGGACCAATTGATGGAACCGTCCGATGTTGTGGGCAACATAAGATTTCAGCCATCCAACATTATACGTCTT
CCCCGGTGGCCAAGGTGATGCCGCCCTCTTTGGCATAAACGGTTTTAACATGCTGGTCGACGG**C**GGTTTCGCAAG
GAAAGCCTGCTTTTGGGACTTTACCAGGCATCTCGACCGCCTCGACGCGGTCTTAGTTACTAGAATAAATAATAG
CAATGTGCGGCGG

SNP5

>A1366_SNP5_AA

CGGATTCCAACGTAACGATCGGTGGACAAGAATCTGGGATAAAAAATTTTTCATTCGATCAGAATCAAGAATCTT
TGTTTTTCGATCAATGATCAATCGGCCGATAAGATCTTGAACAAGAACGTCGAGGACAAATTGGAACGAACGTGAGA
GGCG**A**GAACGAGCGAATTTCAATTCGGGGCATCGATCGAATCCGATAATTCG

>A3224_SNP5_GG

CGGATTCCAACGTAACGATCGGTGGACAAGAATCTGGGATAAAAAATTTTTCATTCGATCAGAATCAAGAATCTT
TGTTTTTCGATCAATGATCAATCGGCCGATAAGATCTTGAACAAGAACGTCGAGGACAAATTGGAACGAACGTGAGA
GGCG**G**GAACGAGCGAATTTCAATTCGGGGCATCGATCGAATCCGATAGTTTCG

SNP6

>A1206_SNP6_AA

CCTGCGCGACTGACTAGACATTATCGTACGCATACTGGTGAAAAACCGTATCAATGCGAATATTGTAGTAAATCG
TTTTCCGTAAGAGAATTTAAGCGTTCATCGTCGTATACATACAAAAGAACGGCCTTATAAGTGTGACGTGTGC
GAACGCGCGTTTGAACATAGTGGTAAACTACATCGACATATGCGAATTCATACCGGCGAACG**A**CCGCATAAGTGT
ACTGTCTGTTCAAAAACGTTCAATTCAAAGCGGACAATTAGTAATTCATATGCGCACGCATACCGGAGAAAAACCA
TACGTTTGAAAGCATGTGGCAAGGGATTCACTTGCTCAAAGCAACTGAAGGTACATACGCGTACGCATACCGGG
GAAAAACCA

>A1221_SNP6_GG

CCTGCGCGACTGACTAGACATTATCGTACGCATACTGGTGAAAAACCGTATCAATGCGAATATTGTAGTAAATCG
TTTTCCGTAAGAGAATTTAAGCGTTCATCGTCGTATACATACAAAAGAACGGCCTTATAAGTGTGACGTGTGC
GAACGCGCGTTTGAACATAGTGGTAAACTACATCGACATATGCGAATTCATACCGGCGAACG**G**CCGCATAAGTGT
ACTGTCTGTTCAAAAACGTTCAATTCAAAGCGGACAATTAGTAATTCATATGCGCACGCATACCGGAGAAAAACCA
TACGTTTGAAAGCATGTGGCAAGGGATTCACTTGCTCAAAGCAACTGAAGGTACATACGCGTACGCATACCGGG
GAGAAACCA

SNP7

>A1621_SNP7_TT

AGGCATCAGGCGTTCGAGGCTGAGATAGCGAGCAACAAGGATCGCTTGCAGCAGTTGCAACAGGCGGCCGAGGAG
TTGATCCAACAGAAGCCAGACCTGGCCGAGATCATCAAGCCGAAGGTGGCCGAATTGGCCGATCAATTCGAGGAG
CTCGAAACGACCACGCACGACAAAGGGGAACGATTGTTTCGACGCGAATCGGGAGGT**T**CTCATCCACCAGACCTGC
GACGACATCGACTCGTGGATGAACGAGTTGGAGAAGCAAATCGAGAGCACGGACACCGGGTCAGATCTGGCCTCG
GTCAACATTCTGATGCAGAAGCAACAGATGATCGAGACGCAGATGGCGGTGAAGGCGAGGCAGGTTACC

>A2475_SNP7_GG

AGGCATCAGGCGTTCGAGGCTGAGATAGCGAGCAACAAGGATCGCTTGCAGCAGTTGCAACAGGCGGCCGAGGAG
TTGATCCAACAGAAGCCAGACCTGGCCGAGATCATCAAGCCGAAGGTGGCCGAATTGGCCGATCAATTCGAGGAG
CTCGAAACGACCACGCACGACAAAGGGGAACGTTGTTTCGACGCGAATCGGGAGGT**G**CTGATCCACCAGACCTGC
GACGACATCGACTCGTGGATGAACGAGTTGGAGAAGCAAATCGAGAGCACGGACACCGGGTCAGATCTGGCCTCG
GTCAACATTCTGATGCAGAAGCAACAGATGATCGAGACGCAGATGGCGGTGAAGGCGAGGCAGGTTACC

SNP8

>A2466_SNP8_AA

TTATCCTCCCCTCGAGCGATAAAATTTCTTCTTTCTTATCGTAGATAACGTTTCATACTGACGGCG**A**TGACGCTG
GTCGCCTCGAGCACCGATAACCGCGGATCTACCGAGGCCGAGCTACGCCAGGACGATGCTGAAGGTGTCGCGAAGC
CTTCCGAGCGAGACCGAAGAGT

>A2649_SNP8_GG

TTATCCTCCCCTCGAGCGATAAAATTTCTTCTTTCTTATCGTAGATAACGTTTCATACTGACGGCG**G**TGACGCTG
GTCGCCTCGAGCACCGATAACCGCGGATCTACCGAGGCCGAGCTACGCCAGGACGATGCTGAAGGTGTCGCGAAGC
CTTCCGAGCGAGACCGAAGAGT

SNP9

>A1095_SNP9_GG

AAGTTCCCGTCAGAGTCGGATTTATCCAGCCTAGAAGC**G**TCGTTAGAGAACGAAGGATCGTTGAGAAAAATAGTG
AAAAGACTGGCACCTGAGAAGAATGGCGAGTACCAAATTTATCAAGGTTCCCTAACCAATAATCTTATACTAACTC
CTAAATGTACCGCAATTTACACTACTCTCTTCTCGTTCCATCTCTAAAGTAC

>A1113_SNP9_AA

AAGTTCCCGTCAGAGTCGGATTTATCCAGCCTAGAAGC**A**TCGTTAGAGAACGAAGGATCGTTGAGAAAAATAGTG
AAAAGACTGGCACCTGAGAAGAATGGCGAGTACCAAATTTATCAAGGTTCCCTAACCAATAATCTTATACTAACTC
CTAAATGTACCGCAATTTACACTACTCTCTTCTCGTTCCATCTCTAAAGTAC

SNP10

>A1233_SNP10_AA

TTGGCGAATGGGAAACAGGAAAAGGTGGAGAGTATATATCGAAAAATGGC**A**CGTATAAACGGGCTTCAAATCTCG
GAAGAGGCGATCGGAGCGTTCAAAGATTTGAACATGGTGAAGACTGAAAAGGTACGAGGAATCGACAATTTTTAT
TATATTTTAAATGAAATCGAATTAAATTAATTACGCCTAACTAAATTTATCTTATTTTTTCAGACGGATCAAATAG
TGATGAAAAGTGACGAAAAGAAATCA

>A3314_SNP10_GG

TTGGCGAATTGGAAACAGGAAAAGGTGGAGAGTATATATCGAAAAATGGC**G**CGTATAAACGGGCTTCAAATCTCG
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TATATTTTAAATGAAATCGAATTAAATTAATTACGCCTAACTAAATTTATCTTATTTTTTCAGACGGATCAAATAG
TGATGAAAAGTGACGAAAAGAAATCA

SNP11

>A1206_SNP11_TT

CAAAACATCTGTAAACGCCTCGAATCCGCCTTTGAAATTGGAACGAATCGAGGAAAAGACTTGTTTACAGATGTC
TACAAAGGGACTAACTATAGCAAAAAATTTAGATTACGAGGATATCGAATCGCT**T**CCGGAAATTATATCACCACC
TCCTAAACACCTCCTGCCTTGCCYCCGAAACCRCAAGTTTAAAAAYAACACGTTGATCTTGAAAAAAATTCCTAG
TCCTTCGTTTCTGATCGATGAGACACGAAAGAAACAACAACCTTCTTGAATCCGG

>A1221_SNP11_CC

CAAAACATCCGTAAACGCCTCGAATCCGCCTTTGAAATTGGAACGAATCGAGGAAAAGACTTGTTTACAGATGTC
TACAAAGGGACTAACTATAGCAAAAAATTTAGATTACGAGGATATCGAATCGCT**C**CCGGAAATTATATCACCACC
TCCTAAACACCTCCTGCCTTGCCCTCCGAAACCACAGTTTAAAAATAACACGTTGATCTTGAAAAAAATTCCTAG
TCCTTCGTTTCTGATCGATGAGACACGAAAGAAACAACAACCTTCTTGAATCCGG

SNP12

>A1621_SNP12_AA

AAAAACATCCTCTAATCTATATCATGTAATGATACATAATACATGAATAAGAGTGGAATTATASTTACTAAATG
AAATAAATTTATCATCTTACTAGTGTGTTCAAAAAATAGTGCAGAA**A**TGGAGAATGACACCGCTCCAACCTCTCCA
GTCATCTTTGGGTATTGGAGAATCGTATTTAGAAGTTTCGGGGGATTGCAGCGGGTAGTATAGACATGCGGGAATT
CATCAACGAGTCCTCGTCTTCATATTCGAAATCTTCCATTCCCATTGCCAACAGATTCTTACCAGARATTCGCAT

>A2475_SNP12_GA(R)

AAAAACATCCTCTAATCTAYATCATSTAATGATACATAATACATGAATAAGAGTGGATTTTATACTTACTAAATG
AAATAAATTTATCATCTTACTAGTGTGTTCAAAAAATAGTGCAGAA**R**TGGAGAATGACACCGCTCCAMCTCTCCA
GTCATCTTTGGGTATTGGAGAATCGTATTTAGAAGTTTCGGGGGATTGCAGCGGGTAGTATAGACATGCGGGAATT
CATCAACGAGTCCTCGTCTTCATATTCGAAATCTTCCATTCCCATTGCCAACAGATTCTTACCAGAGATTTCGCAT

SNP13

>A1560_SNP13_TT

CAAGCTGCGATTCAATCTGGCGAATATGACCATACGAAAAATTATCCCTTCGATGTCGATCAATGGCGTGGTAAA
ATATTTGTATTTTAATTAATATTGTATTTTGCTTCTTGAATCACTTAATATTC**T**ATTCACTTAATATTCAATTTT
GTTACTTGAATTTCTCAATTTTTAAATTGTTAGAATATATTCCACATTCTATTTACGTTACTTGTTCAGGTAT
GACTTTTGTAACCGTACCAAGATACAAAGGTGTACCTTCTTCTTTGAACGTGATATCTGAGAAAATTGGCAACGG
TGGACGACTTCTACAACCGTATCCTGATTGGTCGTGGG

>A1893_SNP13_CC

CAAGCTGCGATTCAATCTGGCGAATATGACCATACGAAAAATTATCCCTTCGATGTCGATCAATGGCGTGGTAAA
ATATTCGTATTTTAATTAATATTGTATTTTGCTTCTCGAATCACTTAATATTC**C**ATTCACTTAATATTCAATTTT
GTTACTTGAATTTCTCAATTTTTAAATTGTTAGAATATATTCCACATTYTATTTACGTTAYTTGTTCAGGTAT
GACTTTTGTAACCGTACCAAGATACAAAGGTGTACCTTCTTCTTTGAACGTGATATCTAAGAAAATTGGCAACGG
TGGACGACTTCTACAACCGTATCCTGATTGGTCGTGGG