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Supplementary file S2

Amplification regions of modified SSR primers

Sequence regions of forward primer

Sequence regions of reverse primer

Sequence regions of newly designed reverse primer

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1) EMPaS10

gctaatatcaaatcccagctctcactgttacaagttacaacaacatgctgcatcctcacattaaaatcagaacct
gaaaaatttgcatgttg**gagagagagagagagagagagagagagagagagagagagagagagagagaga**gc
aatgttaa**ccacagaagccatacttctca**taatttttttaaagatctatatgagaatgggaaaattcacttacat
tatgtgaaacttaggttaaagatcagatgacacttgattatttatgtgtaggattttgaaa**cacacaacacaagc**
cagtagtttattaacataccaagctgctggatcaaactgtaagttagtccacgcgtaagcaagaga

modified sequence of reverse primer: **CTA CTG GCT TGT GTT GTG TG**

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2) PS12A02

gcttggatgcagaatcnatggacagtttaagtttgtaaacagctttgacaatatgtaaacctaattcaactgctc
aatccaatcaa**gccaccaatggttcttcc**ataactgcatattcaaaaatattgtcaagcatttgcaatt**gagaga**
gagagagagagagagagagagagagagagagagagagagaccttttttcttagaggcaacttcggtatcatatgc
gaccgca**tcaggtgcatctggtgctttggttg**

modified sequence of reverse primer: **CAA CCA AAG CAC CAG ATG C**

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3) EMPaS12

tgtgctaatgccaaaaatacca**tgtgtgtgtgtgtgtgtgtg**a**gagagagagagagagaga**aa**gagagagaga**
gagagagagagagagaaaaagagaggttggagactctcacaatgtatgtgact**gagtgggttgaaatgcatgt**at
atataataattacatatgtgactgaggggttgataatacaaagactacctacttgagacgatttcatcaatccc
gt**ccgaaaatatggccttccac**tctaaactcataagaaaaaggaacggaaaataaatttgtaaacttgtggaggg
attttatagttagttacaattgcatacaaaaagtagtccacgcgtaagcaagaga

modified sequence of reverse primer: **GTG GAA GGC CAT ATT TTC GG**

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4) BPPCT034

ctacctgaaataagcagagccatgaaagggaattgcaacttctctttcgtttaacctagaacgagagaaggagat
ttatcatatgtataagtaactcacatcagtatttcaaatacaaagctaatgacagattagacaaatttaaagata
caatattcccctaagc**gagagagagagagagagagagagagagagagagagaga**ttttgt**gcaccccattctcca**
ttggatagatagttggcattctgtacctggctacaagagcatgagcctccatgtgatgtacaccaatgattggta
agttaaa**gctaccagcaatcttacgagc**tttccgcacaccaactgcacaacaattgaatgaaacattagtgctaa
taaactccttagcagtaacaaagaatt

modified sequence of reverse primer: **GCT CGT AAG ATT GCT GGT AGC**

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5) UDP97-403

ctggcttacaactcgcaagcagtagcagagaacgtgagacagtcaca**gagagagagagagagagagagagagaga**
gagagagagagagagaatgagacgagacagagagagactgagaacagaagagttgagtctcagttggtcgacggc
gagagggtaatcgagggtgaggttcgaatcgaaggggacagaaaagaggagaagtgaagagtcgagtctgtgaga
gagacgagatgagagaactgagatccaacgactaggattgatccaagat

modified sequence of reverse primer: **CTC ACA GAC TCG ACT CTT C**

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6) PceGA34

Gaacatgtggtgtgctggtttagcttttgccttgtaggaccattagccacacctagccaccccat**gagagagaga**
gagagagagagagagagagaggatcaatttctgaaatatccagtagttgcattgcatttgcacctcttagtgg
acccctagttgcattcaatattgtttagttacatgggtggatctaggaaaaaaatggattatcatattcacagaa
cctctcactgttttgatgaaagtgggatatgagtgagtgttgatataataaactttaggatataattggtgtgct
tttatctgcaaagtttttaactttttgcatt

modified sequence of reverse primer: **CCC ACT TTC ATC AAA ACA GTG AG**

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7) UDP98-411

aattagaaacataaacagcgcatttaccacagtaaccaaacttcaaaacctctgctgatattaaagccatccact
cagcactcagcg**tctctctctctctctctctctctctctc**tgtgctgtgcttgaagcgctcattgacaatc
ggcgtcgtttttccacgcaaaaagtaaataaagtctctctattcctttggttttggttttggttccaaaaattc
caatatgaccattgttccctttatcctcttaaatacaacaaaacctccactcccacttccgcaacaacctgcatc
atcatcgtcgtcatcatcagcatccatctgcaccgttctcatatcaagttcatagctttactcgaaacccac

modified sequence of reverse primer: **GCT GAT GAT GAC GAC GAT GAT G**

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additionally excluded modified primer

BPPCT040

*atgaggacgtgtctgaatggattttgcaacggtctacgggtggagagtggtgaaataagaaaggttggtc**gagag***
***agagagagagagagagagagaga**aagagaggtttgtttgtcgtataagaggggtttggctttctctttcgagctg*
taacgtaaagg

modified sequence of reverse primer: ***CCT TTA CGT TAC AGC TCG AAA GA***