Supplemental Materials

**Table S1** The 48 synthesized primer pairs and their amplification results in *C. oleifera* and relatives

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Primer code | Left primer sequence(5’-3’) | Right primer sequence(5’-3’) | *C. oleifera* | *C. chrysantha* | *C. gigantocarpa* | *C. japonica* | *C. meiocarpa* | *C. nanyongensis* | *C. osmantha* | *C. polyodonta* | *C. vietnamensis* |
| CoSSR1P | AGCTGGAGCAGGAGCAGTAG | ATGAGGCTGCTTTGAATGCT | + | + | - | + | + | - | + | - | + |
| CoSSR2P | TTTATCTGGGCCAAACAAGG | CCTCGTCATTGCTGTCTCTG | + | - | - | + | + | - | + | - | + |
| CoSSR3P | AGTTCTCCAACTGAATCGCC | TAGCAGTGGATGACAGCAGC | + | + | + | + | + | - | + | - | + |
| CoSSR4P | CTCCATATGATGTTTGCCCC | GTGGGAAGACCATCAAGAGC | + | - | + | + | + | - | + | + | + |
| CoSSR5P | AAAATGGCAAAGAGCCAAGA | CGCTTCTCCAAAAAGCAAAC | + | + | + | + | + | + | + | - | + |
| CoSSR6P | GAAGAACAAGTGTCGGGGAA | TGCTGTTGTGGTATTGGGAA | + | + | + | - | + | - | + | - | + |
| CoSSR7M | GGTGATCGATCTGTCCCTGT | CTGGGAGAGACAAAAGAGCG | + | + | + | + | + | + | + | + | + |
| CoSSR8M | ACCCAATCCAATTCAATCCA | TGACTCTTGGGATCCGAGTC | + | + | + | + | + | + | + | + | + |
| CoSSR9M | GCATCTTCAAGACGTGCAAA | GACGAAGACGAAGACGAAGG | + | + | + | + | + | + | + | + | + |
| CoSSR10P | TGTGAGATGGGTGGATCTGA | CCTCTCTCTCTCGCTCTCCA | + | + | + | + | + | + | + | + | + |
| CoSSR11P | TGCTCATCCGCATCAAATAG | AGCCCGATCATGAAGAACAC | + | + | + | + | + | - | + | - | + |
| CoSSR12P | CACTCCGACTACTGCCGTTC | GAGGGAGAGGGAAAGAAGGA | + | + | + | + | + | + | + | - | + |
| CoSSR13 | TCCAAATTCATTGGCACAAA | TGGTTGAGGCTGTGTTGAAG | - | - | - | - | - | - | - | - | - |
| CoSSR14P | AGTCTTCCCCCTCCTTCAAA | CTTCCACAAGGAAGCAAAGC | + | + | + | + | - | - | + | - | + |
| CoSSR15 | AGCAGAGGTGGAGAAGACCA | TCTCTCTCTCTTCCAAACCCA | - | - | - | - | - | - | - | - | - |
| CoSSR16P | CATTGGGAATGGAGGAGAGA | TTGGGTCCCATTAACCTCTG | + | + | - | + | + | - | + | - | + |
| CoSSR17 | CCTCCACACCTTTTACCGAA | TCTCACGGCGAAGGAGTAGT | - | - | - | - | - | - | - | - | - |
| CoSSR18 | CCTCCACACCTTTTACCGAA | TCTCACGGCGAAGGAGTAGT | - | - | - | - | - | - | - | - | - |
| CoSSR19M | AGCAGTGAGGAAGCCGAATA | AACACCTCATGACTGTCAAATCA | + | + | + | + | + | - | + | - | + |
| CoSSR20M | CTGCTGCATGCACACACTTA | ATGGTGCTGACGATGATGAG | + | + | + | + | + | - | + | - | + |
| CoSSR21P | CCTGGTCACGGTAACCTCTC | ACTTGTGGGTTTCAAATGGC | + | + | + | + | + | - | + | - | + |
| CoSSR22 | TGTGTTTTTGTGTTTCAATCATTTT | ATCCTTTTGACAGCCACCAC | - | - | - | - | - | - | - | - | - |
| CoSSR23P | TTCCTCTCAACCCTCACCAC | ACCAGGCTGATTACATTCGC | + | + | + | + | + | - | + | - | + |
| CoSSR24 | TTCAAACTCACACGCAAAGG | ACCAGGCTGATTACATTCGC | - | - | - | - | - | - | - | - | - |
| CoSSR25P | GGGCTTTGGGGATAAGAAAG | ATTGAAGAAGCGACGACCAC | + | + | + | + | + | - | + | - | + |
| CoSSR26P | CGTGTCTGCCTTGGCTATTT | CGATGATCGGAAAGTAGGGA | + | + | + | + | + | - | + | - | + |
| CoSSR27P | TCAAGTCCTGAAAGGGTTCG | ACTCCAGAAATTGCATTGGC | + | + | + | + | + | - | + | - | + |
| CoSSR28P | GCATGGTCGGAGGATACAGT | CCAGGGAAGGTCTCAAAACA | + | + | + | - | + | - | + | - | + |
| CoSSR29P | CGGAGTCCGACGACAATAAT | CGTCTTCTTCACCGAAAGCA | + | + | - | - | + | - | + | - | + |
| CoSSR30P | CGGAGTCCGACGACAATAAT | GTGCGGTCAAGATGATGATG | + | + | + | + | + | - | + | - | + |
| CoSSR31 | GAACCATCAACCTGGAGGAC | CCAAAGAAGCGACCTTTGAG | - | - | - | - | - | - | - | - | - |
| CoSSR32P | TGCTTAGCTGGGTGGATCAT | ATTGAGGGATGAGGAGGAGG | + | + | + | + | + | - | + | - | + |
| CoSSR33 | AACCCCTCTTTGGAATTGGA | CCCTATGAATAGAAATCAACCAA | - | - | - | - | - | - | - | - | - |
| CoSSR34P | ATCAGGGGTTATTTCGAGCC | CACATGGTCTGAACCCACAA | + | + | + | + | + | - | + | - | + |
| CoSSR35 | TAAAATTCACTTCCCGCCAG | ATCTGTCTTGGCTTGCCAGT | - | - | - | - | - | - | - | - | - |
| CoSSR36 | TCCAAAATTCCAAATCCCAA | TCCCCTCATTCAATCTTCCA | - | - | - | - | - | - | - | - | - |
| CoSSR37P | CCCAATATGAAAATCGGTGC | GCAGGCTGTCAACAGAAACA | + | + | + | - | + | - | + | - | + |
| CoSSR38P | ATCTCGAACCTCTTGCCTCA | TTCCGCGACCTATTTATTCG | + | + | + | - | + | - | + | - | + |
| CoSSR39P | GGATCTGTTGGGTGGTGAGT | CTGAAGCCGCCTCTTGTATC | + | + | + | + | + | - | + | - | + |
| CoSSR40P | GATACAAGAGGCGGCTTCAG | TTAATTGATCGGCTGGGTTC | + | + | - | - | - | - | + | - | + |
| CoSSR41P | GAGAGTGGGGCGTTACAAAA | TATCGCCATCTGTTCATCCA | + | + | - | - | + | - | + | - | + |
| CoSSR42P | AGCTAATCGAGCTGCATGGT | TTTCCACAACACCACCAGAA | + | + | - | - | + | - | + | - | + |
| CoSSR43 | GACCAGGGCTAACAACCTCA | TTTCCACAACACCACCAGAA | - | - | - | - | - | - | - | - | - |
| CoSSR44 | TAGAGGAATTGTTCCCGGTG | CGGCCATTTTTACACACACA | - | - | - | - | - | - | - | - | - |
| CoSSR45P | CCCCTTCCTGCCCTAATAAT | CTCCGAGATCCTCCACAGAG | + | + | + | - | + | - | + | - | + |
| CoSSR46P | TCTCGGTCTCTGTGATGACG | GATACGAGGGCAATGGAGAA | + | + | - | - | + | - | - | + | + |
| CoSSR49M | GTGCTATTGTTGGTTGTGGG | AAGACAGCCCCATTTTTGTG | + | + | - | - | + | - | - | - | - |
| CoSSR50P | TCATGGCGATTAAAGCTGTG | ACGGCATCTGCCTGTAGTTT | + | + | - | - | - | - | - | - | - |

Note: “+” indicates that the primer pair can amplify amplicons in the corresponding species; “-” indicates that the primer pair cannot. “M” in the end of primer code indicates monomorphic primers; “P” indicates that polymorphic primers.