

**Table S4.** The primers for the amplification of nuclear microsatellite markers in various species of *Engelhardia*. The protocols of nuclear simple sequence repeat (nSSR) were performed by Sangon Biotech (Shanghai). In the actions, PCR mixtures (a total volume of 25µl) for nSSR amplification contained: 2.5 µl Taq buffer, 2.0 µl MgCl<sub>2</sub> (25 mM), 0.2 µl Taq DNA-polymerase, 0.5 µl dNTP (10 mM), 0.5 µl of each primer, 1 µl genomic DNA. The PCR amplifications were performed as follows: 95 °C, 3 min; 10 cycles (95 °C, 30 s; 60 °C, 30 s; 72 °C, 30 s); after that 20 cycles (95 °C, 30 s; 55 °C, 30 s; 72 °C, 30 s); and 72 °C, 6 min.

Locus	Repeat array	Allele range (bp)	Primer	Reference
HQ23	(CT) <sub>11</sub> (CA) <sub>19</sub>	131-191	GGTGAAATATCTTGGCACCAC CCATGCCACACAAACAAAAC	(Zhang et al., 2014)
HQ49	(TTG) <sub>6</sub> (TTA) <sub>3</sub>	126-183	AAAAGCAAGAAAAGGCTTGG CCACCCATCAACTTCACAAG	(Zhang et al., 2014)
HQ54	(TG) <sub>14</sub>	107-183	ATCAATCTAACTAGCTCGTG TTAGATATATTCGTTGGCATC	(Zhang et al., 2014)
HQ89	(GA) <sub>15</sub>	147-185	CACCCATGGGAGAATGAAAA TCGTTACCGATGATGATGT	(Zhang et al., 2014)
WGA27	(GA) <sub>30</sub>	140-250	AACCTACAACGCCCTTGATG TGCTCAGGCTCCACTTCC	(Woeste et al., 2002)
WGA79	(GA) <sub>12</sub>	184-226	CACTGTGGCACTGCTCATCT TTCGAGCTCTGGACCACC	(Woeste et al., 2002)
WGA089	(AG) <sub>18</sub> (TG) <sub>12</sub>	153-211	ACCCATCTTTCACGTGTGTG TGCCTAATTAGCAATTTCCA	(Dangl et al., 2005)
WGA202	(CT) <sub>12</sub>	227-315	CCCATCTACCGTTGCACTTT GCTGGTGGTTCTATCATGGG	(Dangl et al., 2005)
WGA321	(CT) <sub>18</sub>	154-266	TCCAATCGAAACTCCAAAGG GTCCAAAGACGATGATGGA	(Dangl et al., 2005)
JC4833	(GTC) <sub>7</sub>	204-273	GAGGAGTTGGTGAAGGAGGC CGCAAGGAAGCTAAAACCCA	(Dang et al., 2015)
JC6576	(CAA) <sub>7</sub>	147-246	ATCTCTTGCTCCACACACG AAGCCAAACCGAATCCCCAA	(Dang et al., 2015)

## References

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