**Additional file 4.** The sequences of primers used in the study for amplification of *Ppmar1NA, Ppmar2* and *Ppmar2NA* transposons.

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| --- | --- | --- |
| **Primer** | **Sequences （5’--3’）** | **Function** |
| Mini-3-1F | TACTCCCTCCATACCCGAAATTCCT | For amplification of the *Ppmar1NA*. |
| Mini-3-1R | TACTCCCTCCATACCCGAAATTCCT |
| Mini-s-1-20-1F | CCGCTCGAGTACTCCCTCCGTCCCAGTATAACGG | For amplification of the 5’ TIR and flanking sequences of *Ppmar2* |
| Mini-s-1-20-1R1 | TGATGGTCGTGTCACCGGATCCTCGCACTTTTCT |
| Mini-s-1-20-2F1 | GGTGACACGACCATCATAGTCCTCAATCTC | For amplification of the 3’ TIR and flanking sequences of *Ppmar2* |
| Mini-s-1-20-2R | CCGCTCGAGTACTCCCTCCGTCCCAGTATAACGG |
| Mini-s-1-20-1F | CCGCTCGAGTACTCCCTCCGTCCCAGTATAACGG | For amplification of *Ppmar2NA* |
| Mini-s-1-20-2R | CCGCTCGAGTACTCCCTCCGTCCCAGTATAACGG |