

**Table S1 List of primers**

Primer		Sequences (5'-3')
umc2172	Forward:	AGTAATCTCATGCCCGCTCTTCTT
	Reverse:	TACGCTGAGTCAAAAACCAGGAAT
umc2021	Forward:	AACTCAAGCTCGGAATGTACTGC
	Reverse:	CGATACTGATCTACTTCACGCTGG
IDPg01A	Forward:	CGGTAACITTTTCGTCAAGC
	Reverse:	TCCTCATACGATGGACTGATA
IDPg12A	Forward:	AGTCATAGACGAACCCAA
	Reverse:	GACACGAATTTTGGTTGC
LM2	Forward:	ACCCTGATCACCCGGTGC
	Reverse:	TTGGGGTTGGGAGGAAGC
LM3	Forward:	GCGGTCCATTTGACAACT
	Reverse:	GACACGAAAACCAAGCGA
LM4	Forward:	AGCAGGCAGGGAAATGTCCT
	Reverse:	CTGAGGTTGCATTTTGTGGTTC
M5	Forward:	AGGCGTCGCACCTGATGA
	Reverse:	CCTTGTAACCCGCCGTAC
RM1	Forward:	ATTTCAAACITTTGAACCGCG
	Reverse:	TGGATGAAAAAGTAAACAAATGTC
RM2	Forward:	AGCTTCAAACCTCTTCCTGC
	Reverse:	GCAGGAAGAGGGTTTGAAGCT
RM3	Forward:	TCCGATCACATTCTCTCAG
	Reverse1:	TCCAACITACATACAACITCTCGT
	Reverse2:	CACGACGTTGTAAAACGACTCCAACITCAACITCTAAC
umc1038	Forward:	CGTCACACTCCTCTGCCACTT
	Reverse:	GAGGATTCAGAACTCGACTCGG
maize P3	Forward:	CGGGGTACCACTAGTACCGCGGGGAGAAGAT
	Reverse:	CGCGGATCCGAGCTCACTGGTGGCTGCACGAA

ZmUBQ-Q	Forward:	CTGGTGCCCTCTCCATATGG
	Reverse:	TGCATGTGTTTGTTCATCAGG
6837-Q	Forward:	TCGACGGATTGGAATTCG
	Reverse:	CGCAATGCGGGAACAAC
Trans6837 F3R3	Forward:	CGCAATGATGGCATTGTAG
	Reverse:	TCGAGCTTTGAGACCTGTT
Indel6819	Forward:	TAAATGAAGTCAGGTGCT
	Reverse:	CATCCAAGAATGATCGA
O7 promoter	Forward:	CGCGGATCCACATACGCTGCAAACAGTG
	Reverse:	GGCGAATCCAATCGTTCGTACCTG
RiceP3	Forward:	CGGGTACCACTAGTCGGCGATCATGGAGAAGCT
	Reverse:	CGCGGATCCGAGCTCCCTCCGGTTCCTTGTA
6837FLcDNA	Forward:	CGCGGATCCATGGCTATGGCGACGACGG
	Reverse:	GGCGAATTCTCAGGCACTGGTCGGCTGC
Rice intron	Forward:	ATCTCGAAACAGCCGTGCATAG

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