

Table S6 Detection of the insertion sites of the *FfMnSOD1* OE and RNAi transformants

Transformants	The reads at the joint regions of Genome and Vector sequence	The position of plasmid	The position of genome
<i>FfMnSOD1</i> ^{OE#1}	>ST-E00600:234:H7T7CALXX:1:2138:16414:21402 2:N:0:CAACCACA CAATTTGTTTACACCACAATATATCCTGCCAC CAGCCAGCCAACAGCTCCCCGACCGGCAGC TCGGCACAAAATCACCACCTCGATaattctccatattg gttcgcaggtgtaaactctgcagttaccctgcacttctgatgcccggtca gc	LB	Fv01-10 scaffold3: 1963921- 1963857
	>ST-E00600:234:H7T7CALXX:1:2260:6922:25974 1:N:0:CAACCACA GAAGAGGCCCGCACCGATCGCCCTTCCCAA CAGTTGCGCAGCCTGAATGGCGAATGCTAGA GCAGCTTGAGCTTGATCAGATTGTCGTTTCC CGCCTTCAGTTTAACTATCAGTGTTTggattgg gtagactatcgagcgcgaggagg	RB	Fv01-10 scaffold3: 1963931- 1963960
	>ST-E00600:234:H7T7CALXX:1:2211:23891:21574 1:N:0:CATACCAA AAAATCCAGTACTAAAATCCAGATCCCCCGA ATTAATTCGGCGTTAATTCAGTACATTAAAAA CGTCCGCAATGTGTTATTAAGTTGTCTAAGCG TCAATTTGTTTACattcattgctgaaggcgaggtgtacttttc cccgtaaaagc	LB	Fv01-10 scaffold9: 437982- 438023 bp
<i>FfMnSOD1</i> ^{RNAi#1}	>ST-E00600:234:H7T7CALXX:1:2465:12662:25488 2:N:0:CATACCAA CAACAGTTGCGCAGCCTGAATGGCGAATGCT AGAGCAGCTTGAGCTTGATCAGATTGTCGT TTCCCGCCTTCAGTTTAACTATCAGTGTTTacc ggcaaactagtgtattaccatcacccaggagtctatccatgatctcaact ggaaaa	RB	Fv01-10 scaffold9: 437810- 437754 bp
	>ST-E00600:234:H7T7CALXX:1:2448:26693:23672 2:N:0:CCGAAGTA ATCCAGATCCCCCGAATTAATTCGGCGTTAAT TCAGTACATTAAAAACGTCCGCAATGTGTTAT TAAGTTGTCTAAGCGTCAAcaagtcaagtaaaactcgta caaatttcgtacgctctgccttttcgggtgatgctgctgcttcgctg gtt	LB	Fv01-10 scaffold1: 2547426- 2547492 bp
	>ST-E00600:234:H7T7CALXX:1:2502:2799:23187 2:N:0:CCGAAGTA CAGCCTGAATGGCGAATGCTAGAGCAGCTTG AGCTTGATCAGATTGTCGTTTCCCGCCTTCA GTTTAACTATCAGTGTTgctatggccactggccgtcga ggtcgctctagaaaaacacgagacgcaacgtccgaggatccaacg a	RB	Fv01-10 scaffold1: 2547394- 2547325 bp

Note. Capital letters indicate sequences that match the genome, lowercase letters represent sequences that match the plasmid. LB means the LB T-DNA repeat region of plasmid, RB means the RB T-DNA repeat region of plasmid.