

Table S7 Detection of the insertion sites of the *FfMnSOD2* 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>FfMnSOD2</i> <sup>OE#1</sup>	>ST-E00600:298:H7JGHALXX:3:2161:1081:15577 1:N:0:CCTCTATC AACCGACGCCCCAGCACTCGTCCGAGGGCA AAGGAATAGAGTAGATGCCGACCGGGATCTC GAGTTTCTCCATAATtagaggacaaatgaattgatcgattc tactgagaggtttggaatgccggtggcgcgctcgattcggcgccagct g	LB	Fv01-10 scaffold8: 568957- 568884 bp
	>ST-E00600:298:H7JGHALXX:3:1367:2808:5760 1:N:0:CCTCTATC TTAATCGCCTTGCAGCACATCCCCCTTTCGCC AGCTGGCGTAATAGCGAAGAGGCCCGCACC GATCGCCGagaacaactgaagaactcaccaattctctacaga ggtctatatcgccgtcaatgcatgtgtgctgagtacatctaagct	RB	Fv01-10 scaffold8: 569479- 569558 bp
<i>FfMnSOD2</i> <sup>OE#2</sup>	>ST-E00600:234:H7T7CALXX:1:1655:28809:20008 2:N:0:CTCAATGA CAGATCCCCCGAATTAATTCGGCGTTAATTCA GTACATTAAAAACGTCCGCAATGTGTTATTAA GTTGTCTAAGCGTCAATTTGTTTACACCcggcgcg taaccacctaagactgttagtgattacagtaacagaacagcagc gacg	LB	Fv01-10 scaffold19: 36410- 36467 bp
	>ST-E00600:234:H7T7CALXX:1:1604:14940:18693 1:N:0:CTCAATGA CGCAGCCTGAATGGCGAATGCTAGAGCAGCT TGAGCTTGGATCAGATTGTCGTTTCCCGCCTT CAGTTTAAACTATCAGTGTTTGAttggggcccttggg atcccggggaattacacgtcgaaggccctcaagagaagattgcctg gct	RB	Fv01-10 scaffold19: 36365- 36302 bp
<i>FfMnSOD2</i> <sup>RNAi#1</sup>	>ST-E00600:298:H7JGHALXX:2:1415:31213:2472 1:N:0:CGACACAC gtttagaaaggatctgtactggttcggacggaggtgactcttgatc caaagtatactcgtaacatggattgactatcgtagatacctcaagT TGGGTAACGCCAGGGTTTTCCCAGTCACGAC GTTGTAAAACGACGGCCAGTGC	LB	Fv01-10 scaffold3: 3043983- 3044078 bp
	>ST-E00600:298:H7JGHALXX:2:2273:27136:9220 1:N:0:CGACACAC acagccagagctcgcggttggtgtcatagacgacgcaaacaccact cctcaacgtcggttcgaccttttctgctgctgcctgctgaacAGGA TATATTGTGGTGTAACAAATTGACGCTTAGA CAACTTAATAACACATTGCGGAC	RB	Fv01-10 scaffold3: 3048146- 3048236 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.