

Table S1. Primers used in the study.

Primer names	The sequence of primers (5'-3')	Function
Cas9-F	CAAGTACGTGAACTTCCTCTACC	Universal primers for detection vectors
Cas9-R	GCTGGGAAAGGTCGATACGAGTC	
Bar-F	AGATCTCGGTGACGGGCAGGAC	Detection of glufosinate resistance gene
Bar-R	ATGAGCCCAGAACGACGCCCCGG	
BocPDS1-F	CCTTTTATTCATTATGCTACCCAG	Detection of <i>BocPDS1</i> mutants in transgenic plants
BocPDS1-R	GAGAAGTGAGCATGCTTTAGTGGT	
BocPDS2-F	TGGTGAAGCTCCTTTGCCTCTCG	Detection of <i>BocPDS2</i> mutants in transgenic plants
BocPDS2-R	TAAGAACGCCATCTTCGACCCAT	
Off-target1-F	AGTTCAAGATGTGAGGATACCA	Off-target analysis
Off-target1-R	CCCTGGGGCTAGAATCAAGCCC	
Off-target2-F	GGTACTGCCACCGTCACTGAAC	
Off-target2-R	TTAAAAGAGGGGACCTAACCCA	
Off-target3-F	GTTTGATTAATATGCTAAGATG	
Off-target3-R	GCGAGTTCCCTCTGTTAGAGTT	
Off-target4-F	GTTGAGGCTCAAGATGGTTTAT	
Off-target4-R	CTCCTGTCAAAATCGCAGTTTC	