

Table S3 Primers used for this study

Primer name	Purpose	Sequence (5'→3')	
Ms10 ³⁵ -CR-F1	CRISPR/Cas9 to target <i>Ms10³⁵</i> , <i>F3H</i> , <i>GSTAA</i> , <i>TPD1</i> and <i>CYP704B1</i>	ATATATGGTCTCTATTGTGACGCCATCACCTACATTAG	
Ms10 ³⁵ -CR-F2		GTGACGCCATCACCTACATTAGTTTTAGAGCTAGAAA	
F3H-CR-R1		ATTATTGGTCTCTAAACTCTAGAATAGTCTCTAGCTCC	
F3H-CR-R2		CTCTAGAATAGTCTCTAGCTCCAATCTCTTAGTCGACT	
GSTAA-CR-R1		ATTATTGGTCTCTAAACGAAATCGCCCTCTTCAATGA	
GSTAA-CR-R2		CGAAATCGCCCTCTTCAATGACAATCTCTTAGTCGAC	
Ms10 ³⁵ -CR-SF		ATTGTGACGCCATCACCTACATTA	
Ms10 ³⁵ -CR-SR		AAACTAATGTAGGTGATGGCGTCA	
TPD1-CR-SF		ATTGTTGGGACCAATAAGTATGCC	
TPD1-CR-SR		AAACGGCATACTTATTGGTCCCAA	
CYP704B1-CR-	<i>ms10³⁵</i> genotyping	ATTGCATCCTCAAACACAACAAGA	
CYP704B1-CR-		AAACTCTTGTGTGTTTGAGGATG	
Ms10 ³⁵ -CR-F1		ATGGAATTCCCCAGTACCCC	
Ms10 ³⁵ -CR-F2		AATACAAATCCAAGAACCTTAAGGC	
Ms10 ³⁵ -CR-R		GCCTCCATCAGTTTAGTTAATCCA	
F3H-F		<i>f3h</i> genotyping	ATTGGCTCCACCATTATTTCGT
F3H-R		TCGGTGTGTCGTTTGAGCC	
GSTAA-F		<i>gsta</i> genotyping	TCATTGAAGAGGGCGATTTC
GSTAA-R		CCGACCTAGTTCACCCACATC	
P6-25-F2		Co-dominant SCAR marker for <i>Ty-3a</i>	GGTAGTGGAATGATGCTGCTC
P6-25-R5	GCTCTGCCTATTGTCCCATATATAACC		
gRNA-F	Screening non-transgenic plants	TTCCCAGTCACGACGTTGTAAA	
gRNA-R		TGCAGGCATGCAAGCTTTAT	
Ms10 ³⁵ -off1-F	Off-target detection	TTCACCGATTGGATTGGCG	
Ms10 ³⁵ -off1-R		TTAGAACTCCCTAACTCAAGAAGGGA	
Ms10 ³⁵ -off2-F		ATTGAAATGTCTTGAACACGAAATG	
Ms10 ³⁵ -off2-R		TGTAAACATGTTGCCTTAACCGA	
GSTAA-off1-F		GATTTGTTCCCTAAGAGTTGTGTT	
GSTAA-off1-R		AGGTGTTCTTCCGACTGTAG	
GSTAA-off2-F		GCATAGTTTGCATGGGTTTCATAGG	
GSTAA-off2-R		TTGCCGCGTCATTCTTAAGTC	
F3H-off1-F		ATAACCAGTCCACAAGGATGTCG	
F3H-off1-R		TCTCCCTCTGAACCTATTACCTACAA	
F3H-off2-F	Identification of <i>Wo</i> mutation sites	GCTGTTTAAGACCATAGGGGACA	
F3H-off2-R		GCAAATTCAGAAGTATGCTCGTG	
Wo-F	Identification of <i>Wo</i> mutation sites	TCCAGGGAGACCTCCTGGTA	
Wo-R		TCAACGGTGCATTTGATGAGA	