

# Efficient CRISPR/Cas9-mediated Targeted Mutagenesis in Populus in the First Generation

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## Supplementary information

**Table S1.** Statistical information describing the mutant alleles of *pds* in transgenic poplars.

	Plant ID	No. of clones sequenced	No. of clones with mutant alleles	No. of different mutant alleles
<i>PtoPDS</i> sgRNA1	1	18	0	0
	2	7	1	1
	3	10	10	4
	4	6	6	3
	5	6	6	2
	6	6	6	2
	7	6	6	3
	8	6	2	1
	Total	65	37	8
<i>PtoPDS</i> sgRNA2 & sgRNA3	1	23	19	1
	2	13	13	6
	3	20	20	6
	4	12	8	3
	5	9	9	3
	6	12	12	5
	7	12	12	6
	8	11	7	3
	Total	112	100	17
<i>PtoPDS</i> sgRNA4	1	5	0	0
	2	6	0	0
	3	10	0	0
	4	6	0	0
	5	4	0	0
	6	6	0	0
	7	6	0	0
	8	5	0	0
	Total	48	0	0

**Figure S1.** Genomic sequence of the *PtoPDS* gene.

> *PtoPDS*

gttgaattggttttgagaaATGAGTGCATTGAACTTGAGCTGGCATAGTAAATCATTAGACTCTCAAGTTGCCTTGAGATGTGGCGCTTATCCTACTTGTTCTCACCAAACGAATGCACTAGCTTTTAGAGGCAGTGAATCAATGGGCCATTCTTTGAAATCCCATTGGAATTCTTCTGCTAAAACAAGACTAAGGAATCATATCCGCCCTCCTTTGCGGGTgcgtagttcttactacagggaattattagttgccaatcaatacgtgaaaattggggatctttgtctacgctgtaggtTGTCTGTATGGACTATCCAAGACCGGACCTTGATAACACGGTGAATTTCTTAGAGGCTGCCTTGTTATCTTCATCCTTTCGTTCTTCTCCGCGTCCAGCTAAACCATTAAATGTTGTCATTGCTGGTGCAGgtgatgaaatcttatctttttgtatgggaaaaactgtgttgattattagattgattctatctatctgtaaaacttttcgttgaaatattgcctcgtgttaattaataatttgaagctcgtactttcacaagattttgcagtactcttgagagattgtgcgatactactcgtgtgtgactaaaaatttccttatttttcagGTTTGGCGGGTTTATCGACTGCAAATACTTGGCAGATGCGGGCCATAAGCCTATATTGCTTGAAGCAAGAGATGTTTTAGGTGGAAAGGTGGCTGCATGGAAAGATGATGATGGAGACTGGTACGAGACAGGCTTGCATATATTCTTTGGGGCATATCCAAATGTGCAGAATCTTTTTGGTGAACCTTGGTATCAATGATAGGTTGCAATGGAAGGAGCATTCTATGATATTTGCAATGCCAAATAAGCCAGGAGAATTCAGTCGATTTGATTTTCCTGAAGTTCTCCCTGCACCATTAAATG

