

YSA sgRNA2 site

Mutation detected from 44 out of 59 sequenced clones

	CCGCCGCATCTCCGCGACGAGCACCTT-CATGAGGTCGAGG	WT
1	CCGCCGCATCTCCGCGACGAGCACAT-----GAGGTCGAGG	D4
	CCGCCGCATCTCCGCGACGAG-----ATGAGGTCGAGG	D7
	CCGCCGCATCTCCGCGACGAGCA-----ATGAGGTCGAGG	D5
	CCGCCGCATCTCCGCGACGAGCA-----TATGAGGTCGAGG	D4
	CCGCCGCATCTCCGCGACGAGCAC---CATGAGGTCGAGG	D2
	CCGCCGCATCTCCGCGACGAGCA-----GAGGTCGAGG	D7
	CCGCCGCATCTCCGCGACGAGCAC-----GAGGTCGAGG	D6
	CCGCCGCATCTCCGCGACGA-----TGAGGTCGAGG	D9
		CCGCCGCATCTCCGCGACGAG-----CATGAGGTCGAGG
2	CCGCCGCATCTCCGCGACGAGCA-----CATGAGGTCGAGG	D4 (×4)
	CCGCCGCATCTCCGCGACGAGCA-----ATGAGGTCGAGG	D5
	CCGCCGCATCTCCGCGACGAGC-----AATGAGGTCGAGG	D5+1
	CCGCCGCATCTCCGCGACGAG-----CATGAGGTCGAGG	D6 (×3)
	CCGCCGCATCTCCGCGACGAGCA-----CATGAGGTCGAGG	D4 (×2)
3	CCGCCGCATCTCCGCGACGAG-----CATGAGGTCGAGG	D6
	CCGCCGCATCTCCGCGACGAGCACCTTCCATGAGGTCGAGG	+1
	CCGCCGCATCTCCGCGACGAGCG-----GTGAGGTCGAGG	D5
	CCGCCGCATCTCCGCGACGAGCAC-----CATGAGGTCGAGG	D3
4	CCGCCGCATCTCCGCGACGAACACCTT-C--GAGGTCGAGG	D2
	CCGCCGCATCTCCGCGACGA-----CATGAGGTCGAGG	D7
		CCGCCGCATCTCCGCGACGAGCACCTTCAATGAGGTCGAGG
5	CCGCCGCATCTCCGCGACGAGCACCTTCTATGAGGTCGAGG	+1
	CCGCCGCATCTCCGCGACGAGCA-----	D20
		CCGCCGCATCTCCGCGACGAGCA-----TGAGGTCGAGG
6	CCGCCGCATCTCCGCGACGAGCAC-----ATGAGGTCGAGG	D4 (×2)
	CCGCCGCATCTCCGCGACGAGCACCTT--ATGAGGTCGAGG	D1
	CCGCCGCATCTCCGCGACGAGCACCT--ATGAGGTCGAGG	D2
	CCGCCGCATCTCCGCGACGAG-----ATGAGGTCGAGG	D7
	CCGCCGCATCTCCGCGACGAGCACC-----ATGAGGTCGAGG	D3
	CCGCCGCATCTCCGCGACGAG-----AGG	D16
		CCGCCGCATCTCCGCGACGAG-----AGG

Supplementary information, Figure S11 Targeted indel mutations induced by engineered sgRNA:Cas9 at the *YSA* gene sgRNA2 site in rice.

Alleles shown were amplified from genomic DNA isolated from 6 independent T0 transgenic plants separately and sequenced after cloned into vectors. The wild type sequence is shown at the top with the PAM sequence highlighted in magenta and the target sequence in cyan. Red dashes, deleted bases; red bases, insertions or mutations. The net change in length is to the right of each sequence (+, insertion; D, deletion). The number of clones representing each mutant allele is shown in brackets. The plants #5 and #6 correspond to the two plants showing albino leaf phenotype.