

YSA sgRNA1 site

Mutation detected from 110 out of 157 sequenced clones

| Plant ID | Sequence | Change |
|----------|--|-----------------------|
| | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC-GAA--GCGGCCCTACTC | WT |
| 1 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC-GGA--GCGGCCCTACTC | D1(×9) D1,+1 |
| 2 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC | D1(×5) |
| 3 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC | D1(×8) |
| 4 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC-GGA--GCGGCCCTACTC AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC-GAAA-GCGGCCCTACTC | D1,+1 D1(×3) +1 |
| 5 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC-GAAA-GCGGCCCTACTC | D1(×8) +1(×7) |
| 6 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC-GA---GCGGCCCTACTC | D1(×3) |
| 7 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC | D1(×20) |
| 8 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC | D1(×5) |
| 9 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC-GAAA-GCGGCCCTACTC | D1(×7) +1(×3) |
| 10 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCCATGGACTGCGGCCCTACTC | D3,+7(×3) |
| 11 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC | D1(×12) |
| 12 | AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC--AA--GCGGCCCTACTC AGGGCCGTGCCGGGAGGCGCGCCACCTCGGCC-GA---GCGGCCCTACTC | D1(×13) D1 |

Supplementary information, Figure S10 Targeted indel mutations induced by engineered sgRNA:Cas9 at the *YSA* gene sgRNA1 site in rice.

Alleles shown were amplified from genomic DNA isolated from 12 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 #7 correspond to the two plants showing albino leaf phenotype.