

Table S1. Indel frequency in target site (sgRNA1) and off-target site (sgRNA4) in CRISPR/Cas9-mediated mutant lines (Cr4, Cr7, and Cr14) by Deep sequencing

| Mutant line | Target site sequence (sgRNA1) | | | | | Off target site sequencing (sgRNA4) | | | | |
|-------------|-------------------------------|-----------|----------|-----------|---------------------|-------------------------------------|-----------|----------|-----------|---------------------|
| | Total read | Wild-type | Deletion | Insertion | Indel frequency (%) | Total read | Wild-type | Deletion | Insertion | Indel frequency (%) |
| Cr4 | 98,146 | 0 | 47,883 | 50,263 | 100 | 86,550 | 86,540 | 10 | 0 | 0 |
| Cr7 | 101,867 | 0 | 101,867 | 0 | 100 | 89,411 | 89,406 | 5 | 0 | 0 |
| Cr14 | 135,931 | 630 | 134,689 | 0 | 99.5 | 120,380 | 120,364 | 16 | 0 | 0 |