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Wt <i>DD43</i>	TTTCTAGAATACCCT CCGTAC <u>GTACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D12-1c	TTTCTAGAATACCCT CCGTAC - <u>GTACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D5-6c	TTTCTAGAATACCCT CCGTAC - <u>TACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D5-3a	TTTCTAGAATACCCT CCGTAC -- <u>ACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D12-4c	TTTCTAGAATACCCT CCGTACG -- <u>CAAGTACAAGGGAC</u> TTGTGAGTTGTA
D1-20b	TTTCTAGAATACCCT CCGTAC --- <u>CAAGTACAAGGGAC</u> TTGTGAGTTGTA
E5-1a	TTTCTAGAATACCCT CCGTAC --- <u>ACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D5-1a	TTTCTAGAATACCCT CCGTAC --- <u>AAGTACAAGGGAC</u> TTGTGAGTTGTA
E12-4b	TTTCTAGAATACCCT CCGTAC --- <u>AAGTACAAGGGAC</u> TTGTGAGTTGTA
D5-11b	TTTCTAGAATACCCT CCGTAC ---- <u>AGTACAAGGGAC</u> TTGTGAGTTGTA
D5-4a	TTTCTAGAATACCCT CCGTAC ---- <u>AGTACAAGGGG</u> TTGTGAGTTGTA
D12-2a	TTTCTAGAATACCCT CCGTAC ----- <u>TACAAGGGAC</u> TTGTGAGTTGTA
D5-14a	TTTCTAGAATACCCT CCGTAC ----- <u>ACAAGGGAC</u> TTGTGAGTTGTA
D1-17a	TTTCTAGAATACCCT CCGTAC ----- <u>CAAGGGAC</u> TTGTGAGTTGTA
D5-16c	TTTCTAGAATACCCT CCGTAC ----- <u>AAGGGAC</u> TTGTGAGTTGTA
E8-1a	TTTCTAGAATACCCT CCGTAC ----- <u>AGGGAC</u> TTGTGAGTTGTA
D5-5c	TTTCTAGAATACCCT CCGTAC ----- <u>GGGAC</u> TTGTGAGTTGTA
E5-1b	TTTCT----- <u>TACAAGTACAAGGGAC</u> TTGTGAGTTGTA
E6-7c	TTTCTAGAATAACCT^TTAATTTA----- <u>GGAC</u> TTGTGAGTTGTA
D1-10c	TTTCTAGAATACCCT CCGTAC ^38-- <u>TACAAGTACAAGGGAC</u> TTGTGAGTTGTA
E1-9a	TTTCTAGAATACCCT CCGTAC ^110----- <u>AAGGGAC</u> TTGTGAGTTGTA
E5-4b	TTTCTAGAATACCCT CCGTAC ^125 <u>GTACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D5-16a	TTTCTAGAATACCCT CCGTAC ^130----- <u>TACAAGGGAC</u> TTGTGAGTTGTA
E9-1c	TTTCTAGAATACCCT CCGTAC ^154 <u>GTACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D1-10a	TTTCTAGAATACCCT CCGTAC ^167 <u>GTACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D5-3b	TTTCTAGAATACCCT CCGTAC ^171 <u>GTACAAGTACAAGGGAC</u> TTGTGAGTTGTA
E9-1a	TTTCTAGAATACCCT C ^177----- <u>TACAAGTACAAGGGAC</u> TTGTGAGTTGTA
E1-9b	TTTCTAGAATACCCT CCGTAC ^190 <u>GTACAAGTACAAGGGAC</u> TTGTGAGTTGTA
D1-11a	TTTCTAGAATACCCT CCGTAC ^220 <u>GTACAAGTACAAGGGAC</u> TTGTGAGTTGTA

Supplemental Figure 1. Target site alterations of selected *DD43* NHEJ events. The top row is 50 bp wild type sequence (complementary strand) surrounding the *DD43* target site (underlined) with the PAM sequence in bold cases. Other rows are corresponding unique sequences of selected *DD43* NHEJ events. “-” indicates a deleted nucleotide. “^” indicates an insertion. The sequence or number following “^” indicates the insert sequence or size. Blast searches reveal that the inserts are of soybean genome sequence origin.