

Supplemental Table 1. Crosses between edited-*GmCENH3* and WT induced no haploid plants.

Crosses	No. of F ₁ plants	No. of haploids	HIR	No. of aneuploids
<i>cenh3-1/cenh3-4</i> (Jack) ♀ × WT(Wm82) ♂	94	0	0	0
<i>cenh3-3/cenh3-4</i> (Jack) ♀ × WT(Wm82) ♂	70	0	0	0
<i>cenh3-3/cenh3-4</i> (Jack) ♀ × WT(ZH13) ♂	18	0	0	1
<i>cenh3-1/cenh3-1</i> (Jack) ♀ × WT(Wm82) ♂	332	0	0	-
<i>cenh3-2/cenh3-2</i> (Jack) ♀ × WT(Wm82) ♂	230	0	0	-
<i>cenh3-1/cenh3-2</i> (Jack) ♀ × WT(Wm82) ♂	14	0	0	-
<i>cenh3-3/cenh3-3</i> (Jack) ♀ × WT(Wm82) ♂	115	0	0	-
<i>cenh3-7/cenh3-7</i> (Jack) ♀ × WT(Wm82) ♂	20	0	0	-