



Figure S4 Exome-seq identified causative deletion candidate in mutant 146. (A) Chromosomal plot of the unique deletion by exome-seq. Only one unique exon-deleted region (blue) was identified in mutant 146. (B) ~4.8 kb DNA fragment (black, chr4:41,401,983-41,397,178) deleted by γ -radiation, was shown in the windows of coverage and read in exome-seq. Ten exons, referring to exons #2-#11, were lost within the *SUGARY-1* gene (GRMZM2G138060, totally 18 exons), and exon #2 was partially deleted. The two break points were estimated at 41,397,178 and 41,401,983 based on maize genome v3.25.