

Table S1 Information of primers used in qRT-PCR.

Genome ID	Gene name	Forward primer sequence	Reverse primer sequence
Zm00001d0 37565	<i>GA2ox1</i>	GAGTATGTGGGAGCGATGAG	GGTGGAGGGTAGTGGTTTATC
Zm00001d0 02999	<i>GA2ox2</i>	ACAACCTGTACAAGAGCGTG	CGAAGGTGAAGTCTCTGTACG
Zm00001d0 43411	<i>GA2ox3</i>	GAGGTTCAGGAGCGTGAAG	CCGCGAAGTAGATGAAGGAAAC
Zm00001d0 17294	<i>GA2ox4</i>	AACAGATACAAGAGCGTGGAG	GAAAGTAGGCGACGGAGTAG
Zm00001d0 37724	<i>GA2ox6</i>	AAACCACCCTCCCAATCATC	TCGCCGACATTGACGAAG
Zm00001d0 38695	<i>GA2ox7</i>	GGGTGTCCATGATCTACTTCG	GTAGTCGCCCCATGTGAAG
Zm00001d0 08909	<i>GA2ox9</i>	CTGCGGGTGAACCACTAC	GAGCACCGAGATGATCTGC
Zm00001d0 34898	<i>GA20ox1</i>	CTACTTCGTGGACAAGCTGG	ACAGACGGCTCATCTCAGAG
Zm00001d0 07894	<i>GA20ox2</i>	AAAATGCAGGGAGGTGTACC	TGGTTCAGCCGCATGAC
Zm00001d0 13725	<i>GA20ox4</i>	CTGGTGAGCAAGGACGATC	TTGAAATGCGCGATCTGAATG
Zm00001d0 12212	<i>GA20ox5</i>	CTCCCCTGTTACAAATACCCC	CTGGCTCTTGTCGTTTCCTG

Table S2. Transcriptome analysis differences of DEGs associated with GA synthesis in 1 cm and 10 cm sowing depth at the 15-day seedling stage (10 cm/1 cm).

Swissprot	Gene-id	log₂Fold	pvalue	padj
Description		Change		
<i>ZmGA2ox1</i>	Zm00001d037565	4.668910698	0.000706654	0.003521947
<i>ZmGA2ox2</i>	Zm00001d002999	-2.532823236	8.02E-28	1.30E-25
<i>ZmGA2ox3</i>	Zm00001d043411	-1.60336952	1.41E-07	1.78E-06
<i>ZmGA2ox4</i>	Zm00001d017294	-2.395064914	4.83E-16	2.36E-14
<i>ZmGA2ox6</i>	Zm00001d037724	-2.479127089	2.71E-31	5.49E-29
<i>ZmGA2ox7</i>	Zm00001d038695	3.784351874	0.000177668	0.001067743
<i>ZmGA2ox9</i>	Zm00001d008909	-4.733853057	8.24E-81	3.04E-77
<i>ZmGA20ox1</i>	Zm00001d034898	-1.724877624	1.42E-14	5.83E-13
<i>ZmGA20ox2</i>	Zm00001d007894	-2.49328791	0.004483223	0.016943248
<i>ZmGA20ox4</i>	<i>Zm00001d013725</i>	-2.110525696	0.000105074	0.000672358
<i>ZmGA20ox5</i>	Zm00001d012212	-1.909198573	1.89E-10	4.05E-09