

Table 1 Suppl. List of primers used in this study.

Primer name	Primer sequence 5'-3'
3'-RACE-1	AGGAGAAGGAGGCGGCGATG
3'-RACE-2	GCCTCGGCAGGGGAGAACTC
5'-RACE-1	CGCCACCGTGTACTCGTTC
5'-RACE-2	TCCTCGGGCAAGGGCAAT
PpGA2ox-F	TGACCATGGTGGTTCTTGCC
PpGA2ox-R	CCCCGTCACAAACAAAACAGC
3302Y-GA2ox-F	CACGGGGGACTCTTGACCATGGTAATGGTGGTTCTTGCCAAGGGT
3302Y-GA2ox-R	GGTACACGCGTACTAGTCAGATCCAAGCTCGTGGTCTCGAAGTGG
qGA2ox-F	ATGACGTGCGAGGTGCTGG
qGA2ox-R	GATGATCTGCGGGTCGGTGT
PpACT-F	TGAGCACATTCCAGCAGA
PpACT-R	CCATAGACAAAGCCATCG
GA2ox-R1	ATAGGCAGCAATGGCGACCT
GA2ox-R2	CTTCTTCAAGGTGACGGGCCA
GA2ox-R3	GGTGGTTCTTGCCAAGGGTGAG
Prom-F	CAATCGTGCTCGCCAAGAAT
Prom-R	GAAGAAGCCATGCTCCTCGC
1391-GA2ox-F	AAGCCTAGGGAGGAGTCCACCAATCGTGCTCGCCAAGAAT
1391-GA2ox-R	TTTACCCTCAGATCTACCATGGTCACAGAGCAGGGGAAAC
qGUS-F	GCTCTACACCACGCCGAACA
qGUS-R	GTCCCGCTAGTGCCTTGTC
AtUBQ-F	AGTCCACCCTTCACTTGTTCTC
AtUBQ-R	GTCAGCCAAAGTTCTTCCATCT
AtGA2ox1-F	TCAGAAACGCATTGGAAGAGTA
AtGA2ox1-R	GCTAAGAGGACATGGTGGATAG
AtGA2ox2-F	TCTCCTCCTCAATGCTAATCCT
AtGA2ox2-R	TACTCAGAGTGTCCTTGCGTC
AtGA2ox3-F	CCCTGTTATAGACTTAACCGACTC
AtGA2ox3-R	GTTGATGGCTTCTTGCTCCA
AtSOC1-F	CGAAGTTTGGTCAAATAAGAAT
AtSOC1-R	GAACAAGGTAACCCAATGAAC
AtFLC-F	ATCGATTCCGTTCTCGATGT
AtFLC-R	ATCCAGTTCCTCCTCCCAAC
AtFT-F	GGAACAACCTTTGGCAATGAGAT
AtFT-R	CTGCCAAGCTGTCGAAACAA

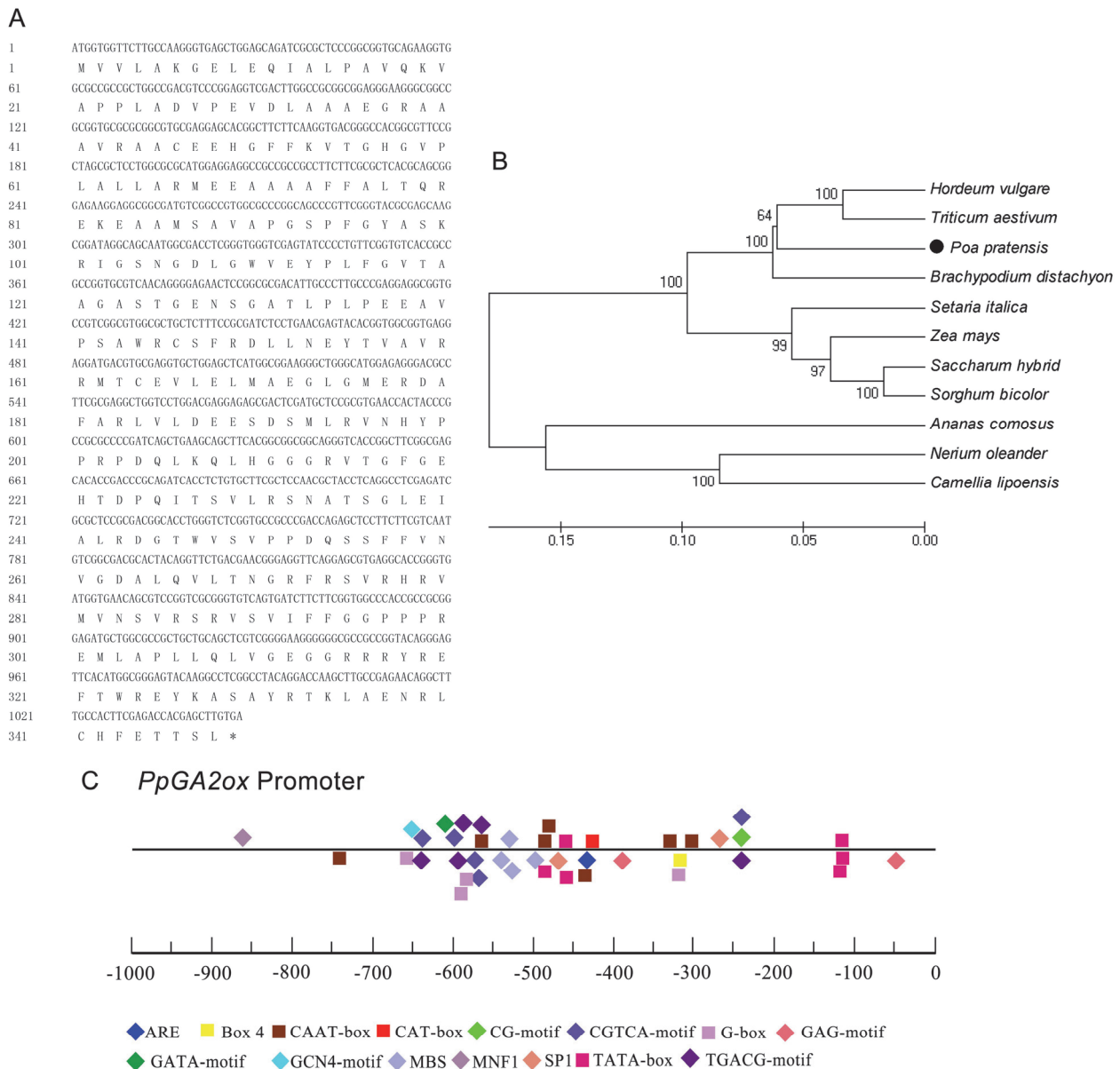


Fig. 1 Suppl. Sequence and phylogenetic analysis of *PpGA2ox* and its promoter. *A* - sequence of *PpGA2ox* cDNA and its encoded protein. *B* - Phylogenetic analysis of the *PpGA2ox* protein and its orthologs. Bootstrap values are provided to indicate the reliability at each node. The scale bar corresponds to estimated amino acid substitutions per site. Accession numbers are: *Poa pratensis* (ANG59310.1); *Hordeum vulgare* (BAJ88432.1); *Triticum aestivum* (CFV04391.1); *Brachypodium distachyon* (XP_003568747.1); *Setaria italica* (XP_004960613.1); *Zea mays* (AFW77414.1); *Saccharum hybrid* (AGT17344.1); *Sorghum bicolor* (KXG21531.1); *Ananas comosus* (ACN30002.1); *Nerium oleander* (AAT92094.1); *Camellia lipoensis* (AHZ13202.1). *C* - cis-elements analysis of *PpGA2ox* promoter sequence.

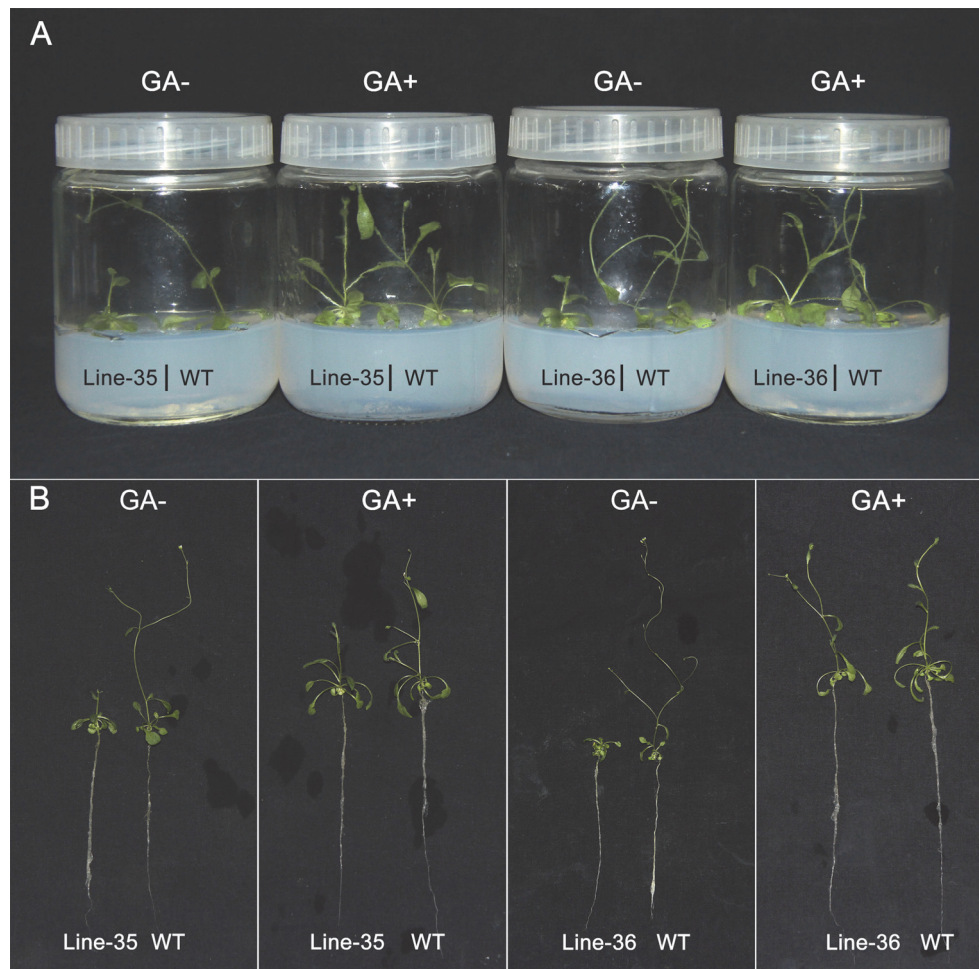


Fig. 2 Suppl. GA₃ application rescued the GA-deficient phenotype of *PpGA2ox*-overexpressing lines.