

Supplementary material

Table 1. Preparation of 100 mm flat plate.

	SD/-Trp	SD/-Trp/X- α -Gal	SD/-Trp/X- α -Gal/AbA	SD/-Trp/-Leu/X- α -Gal
1	-	-	-	50 μ l
2	-	-	-	50 μ l
3	50 μ l	50 μ l	50 μ l	-
4	50 μ l	-	-	-

Table 2. Expected results (BD does not have self-activation).

Raction	Type of culture medium	Are there positive clones	Clone color
1 (Positive control)	SD/-Trp/-Leu/X- α -Gal	Yes	Blue
2 (Negative control)	SD/-Trp/-Leu/X- α -Gal	Yes	White
3 (BD self-activation detection)	SD/-Trp	Yes	White
4 (BD self-activation detection)	SD/-Trp/X- α -Gal	Yes	White
5 (BD self-activation detection)	SD/-Trp/X- α -Gal/ABA	No	Blank
6 (Blank BD Carrier)	SD/-Trp	Yes	White



Figure 1. *GUS* staining analysis of roots and germinated seeds of transgenic rice Pro5126:*GUS* and ProZmMs7:*GUS* after 10 days of growth.

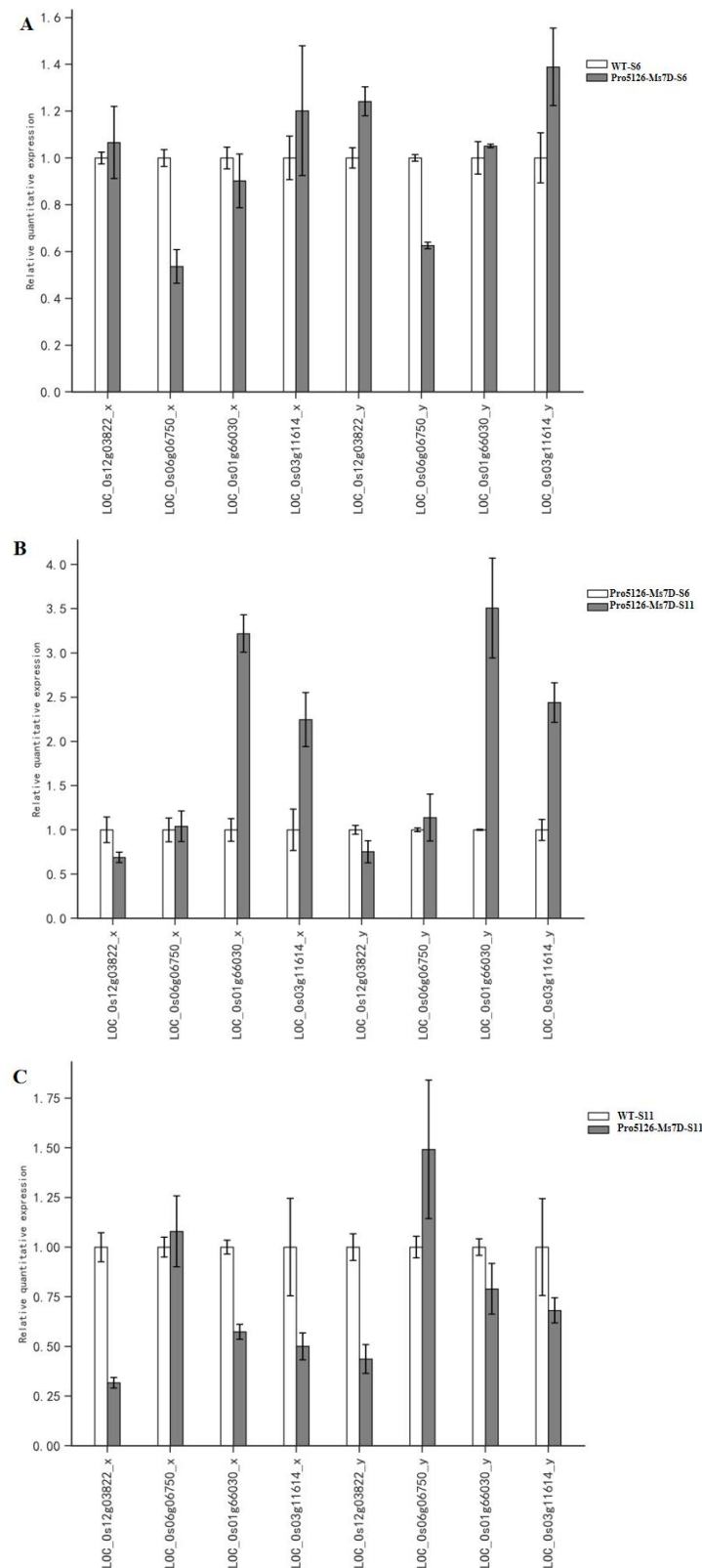


Figure 2. Differential gene expression histogram A: Pro5126-ZmMs7-S6-vs-WT-S6, B: Pro5126-ZmMs7-S11-vs-Pro5126-ZmMs7-S6, C: ro5126-ZmMs7-S11- vs-WT-S11, _x represents the internal parameter ACT, _y represents the internal parameter UBQ.

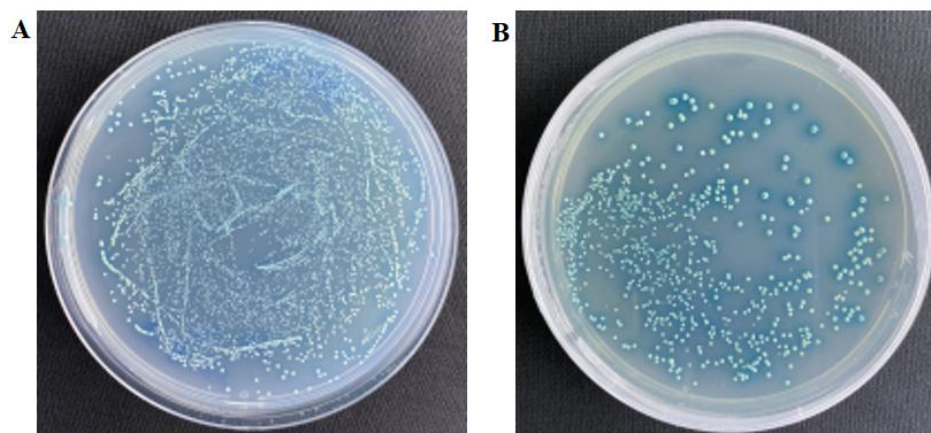


Figure 3. Positive control for the experiment of pGBKT7-PHD self-activation A: DDOX cultivation medium, B: QDOXA cultivation medium.

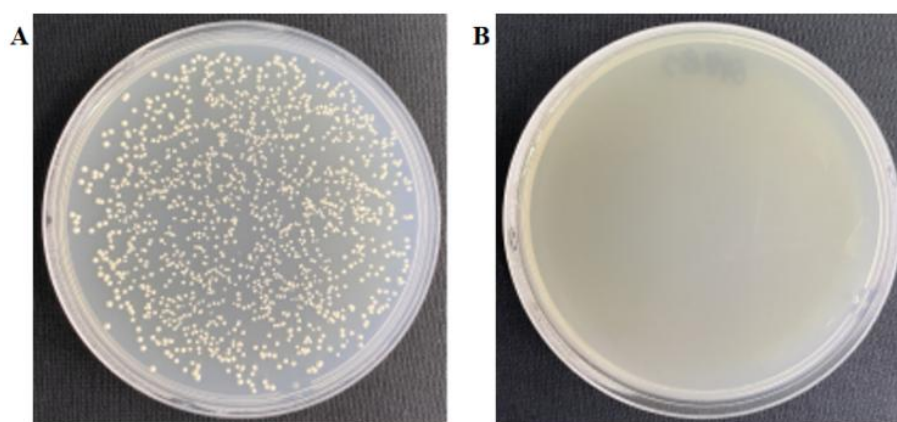


Figure 4. Negative control for the experiment of pGBKT7-PHD self-activation A: DDO/X cultivation medium, B: QDO/X/A cultivation medium.

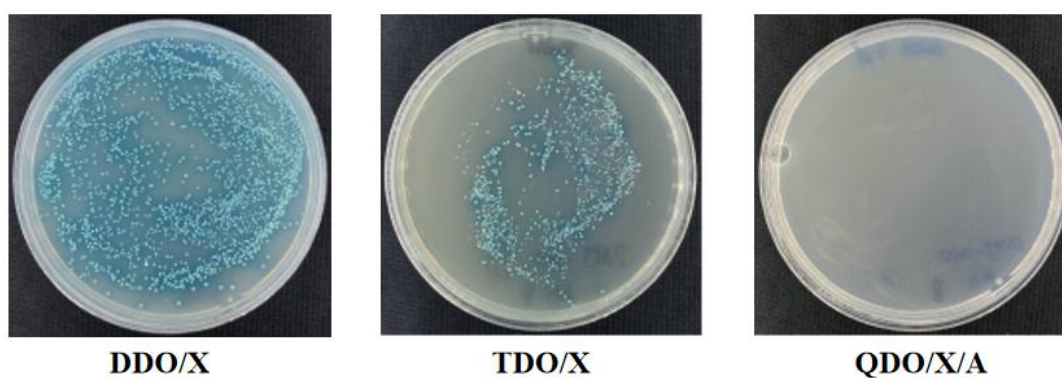


Figure 5. Self-activation detection of pGBKT7-PHD DDO/X represents SD/-Leu/-Trp/X- α -Gal, TDO/X represents SD/-Leu/-Trp/-His/X- α -Gal, QDO/ X/A stands for SD/-Leu/-Trp/-His/-Ade/X- α -Gal/AbA.

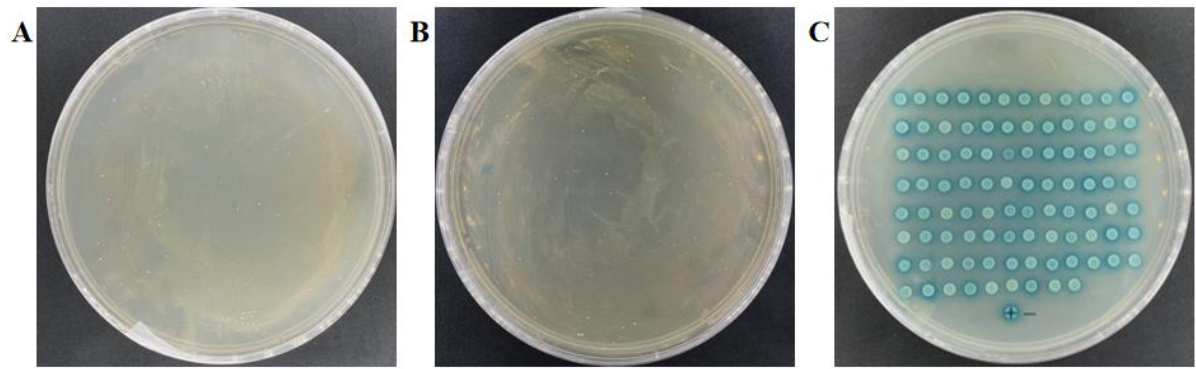


Figure 6. Positive clones on the screening library plate A and B: Some positive clones on the primary screening plate (QDO/X/A), C: Positive clones on the rescreening plate (QDO/X/A).

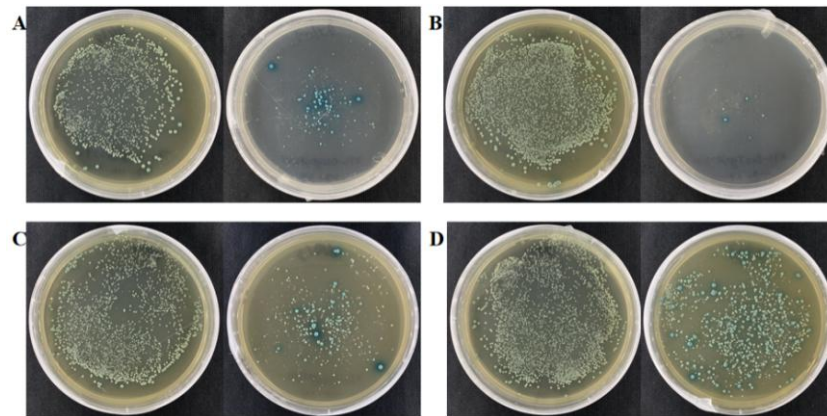


Figure 7. One-to-one verification results of four positive clones A: pGADT7-LOC_Os03g11614_03 positive clone (Left image: DDO/X medium. Right image: QDO/X/A medium), B: pGADT7-LOC_Os06g06750_04 positive clone (Left image: DDO/X medium. Right image: QDO/X/A medium), C: pGADT7-LOC_Os12g03822_02 positive clone (Left image: DDO/X medium. Right image: QDO/X/A medium), D: pGADT7-LOC_Os12g03822_01 positive clone (Left image: DDO/X medium. Right image: QDO/X/A medium).