

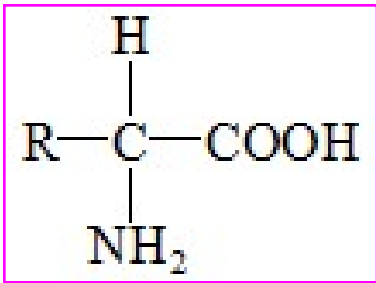
Cite this as: Ya WANG, Meng-yun XU, Jian-ping LIU, Mu-gui WANG, Hai-qing YIN, Ju-min TU, 2014. Molecular identification and interaction assay of the gene (*OsUbc13*) encoding a ubiquitin-conjugating enzyme in rice. *Journal of Zhejiang University-SCIENCE B (Biomedicine & Biotechnology)*, 15(7):624-637.
[doi:10.1631/jzus.B1300273]

Molecular identification and interaction assay of the gene (*OsUbc13*) encoding a ubiquitin-conjugating enzyme in rice

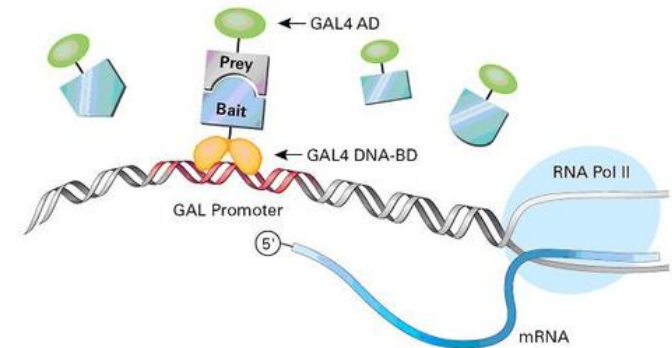
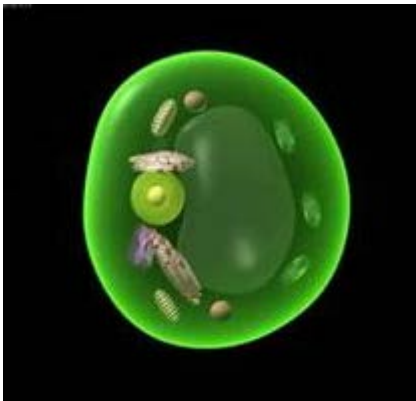
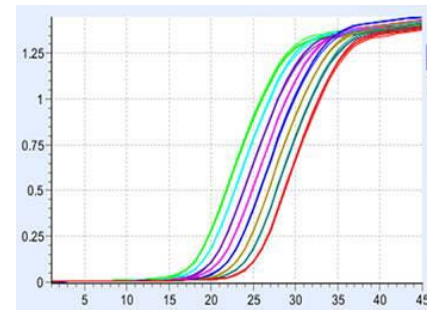
Key words: Ubc13; *Oryza sativa*; Real-time quantitative PCR; Yeast two-hybrid.

Research contents

This research paper mainly focused on the study of *OsUbc13* gene in the following aspects:



- The sequence analysis
- The expression pattern
- The subcellular localization
- The protein-protein interactions

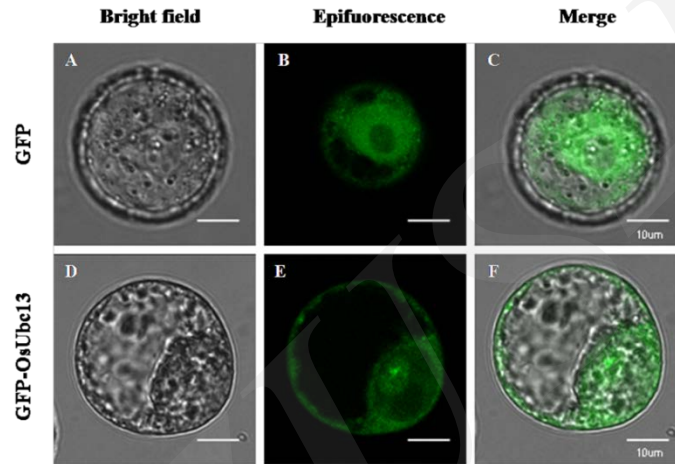


Main conclusions

- ◆ ***OsUbc13*** encodes a UBC homolog of 153 amino acids (Fig. 1).
- ◆ ***OsUbc13*** gene is primarily constitutive in various tissues (Fig. 2).
- ◆ ***OsUbc13*** gene is generally modulated by hormone and abiotic stresses (Fig. 3).
- ◆ ***OsUbc13*** was probably localized in the plasma and nuclear membranes (Fig. 4).
- ◆ Twenty proteins were identified as the potential ***OsUbc13***-interacting partners (Fig. 5 and Table 1).

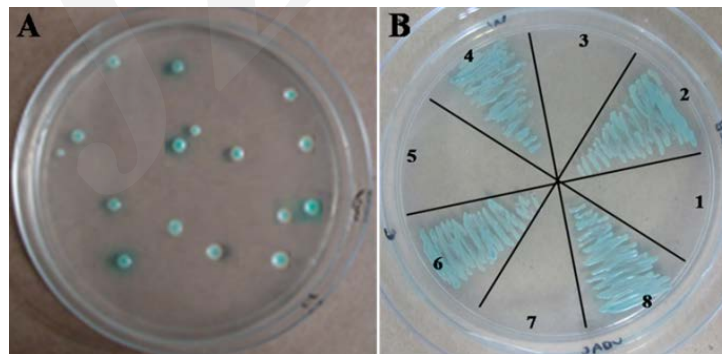
Innovation points

- Study on the subcellular localization of plant Ubc13 protein



(Fig. 4)

- Exploration the interacting proteins of *OsUbc13*



(Fig. 5)