

## **KGIR 1 - A PROMISING RICE VARIETY FOR HEAT AND DROUGHT TOLERANCE**

**Nguyen Thi Lang, Young-Chan Cho, Man-Kee Baek, Hyun-Su Park,  
You-Chun Song, Jeong-Kwon Nam, Woo-Jae Kim, Bo-Kyeong Kim,  
Young-Bok Lee, Chun-Song Kim, Hong-Kyu Park, Jong-Min Jeong,  
Woon-Chul Shin, Jeom-Ho Lee, Jun-Hyeon Cho, Ji-Yoon Lee,  
Jung-Pil Suh, Jong-Hee Lee, Kyung-Hee Han**

### **Summary**

The new advances are applied to production, especially by the method of molecular indicators in collaboration with by improved method are made to the same breeder together many desirable genes from Senpidao/SACG4. The same time has grown kgir1 in group A2 (on 95-100 days). Height 100-105cm and panicle length 25-28 cm. Compared to other lines, the number panicle/hill average (11 panicle). The number of filling from 148.3. However on a number of fertile land, the number of seeds on panicle are also reaching 180 seeds. Weight of 1000 seeds reached 26.8 g. Reviews on harvest index (HI), KGIR1 worth the relatively high HI, gaining 0.58. Productivity of KGIR1 has great potential in the winter-spring season, but often for low productivity in the summer, This rice good with heat tolerance and drought tolerance The yield 7.5 ton/ha of winter-spring season and 5.40 ton/ha in wet season. This is just like having wide adaptability, stable yield, should it be maintained quite long in production in the Mekong delta.

**Keywords:** *Aroma, genetic, plant breeding, marker-assisted selection, heat and drought tolerance.*