

Table S1. Average agronomic performance of *OsCPK5_E4* (GM) and BRSMG Curinga (NGM) rice plants: grain yield, number of filled grains, harvest index, tiller number, panicle number, flag leaf length and width, dry and fresh mass, in control and water deficit (WD) irrigation treatments.

Trait	Genotype	Control	WD
Grain yield (g plant ⁻¹)	<i>OSCPK5_E2</i>	73.8 (18.6) A	12.3 (10.2) B
	<i>OSCPK5_E4</i>	85.5 (20.3) A	30.9 (20.5) A
	<i>OSCPK5_E7</i>	74.8 (16.0) A	9.12 (10.9) B
	NGM	87.1 (20.1) A	29.5 (21.0) A
Percentage of filled grains	<i>OSCPK5_E2</i>	88.8 (0.02) A	16.8 (0.1) B
	<i>OSCPK5_E4</i>	88.3 (0.04) A	38.3 (0.2) A
	<i>OSCPK5_E7</i>	87.5 (0.06) A	17.8 (0.1) B
	NGM	79.8 (0.05) A	37.3 (0.2) A
Plant Height	<i>OSCPK5_E2</i>	105.4 (8.2) A	94.6 (8.8) C
	<i>OSCPK5_E4</i>	90.1 (7.2) A	81.4 (3.2) A
	<i>OSCPK5_E7</i>	102.8 (8.6) A	87.9 (6.0) B
	NGM	105.6 (11.5) A	94.5 (5.1) C
Tiller Number	<i>OSCPK5_E2</i>	40.3 (5.6) A	42.5 (7.2) A
	<i>OSCPK5_E4</i>	41.5 (9.3) A	45.3 (4.2) A
	<i>OSCPK5_E7</i>	36.3 (3.5) A	44.0 (7.4) A
	NGM	46.8 (2.5) A	45.8 (7.1) A
Panicle Number	<i>OSCPK5_E2</i>	40.3 (5.9) A	41.3 (7.2) A
	<i>OSCPK5_E4</i>	41.5 (9.3) A	43.8 (4.2) A
	<i>OSCPK5_E7</i>	36.3 (3.5) A	44.5 (7.1) A
	NGM	46.8 (2.5) A	45.0 (7.8) A
Flag leaf width (cm)	<i>OSCPK5_E2</i>	1.48 (0.2) A	1.51 (0.1) A
	<i>OSCPK5_E4</i>	1.62 (0.1) A	1.54 (0.2) A
	<i>OSCPK5_E7</i>	1.58 (0.1) A	1.58 (0.1) A
	NGM	1.51 (0.1) A	1.50 (0.1) A
Flag leaf length (mm)	<i>OSCPK5_E2</i>	19.0 (3.5) A	17.4 (2.1) A

<i>OSCPK5_E4</i>	18.6 (2.7) A	17.4 (2.3) A
<i>OSCPK5_E7</i>	18.6 (1.5) A	17.4 (2.1) A
<i>NGM</i>	17.1 (1.5) A	19.5 (3.6) A

Uppercase letters indicate a comparison between *OSCPK5_E4* (genetically modified) and *OSCPK5_E4* (not genetically modified) plants for the same treatment (Scott-Knott test at 5% probability and n = 4). In parentheses: Standard deviation values.