

Supplementary figure and tables

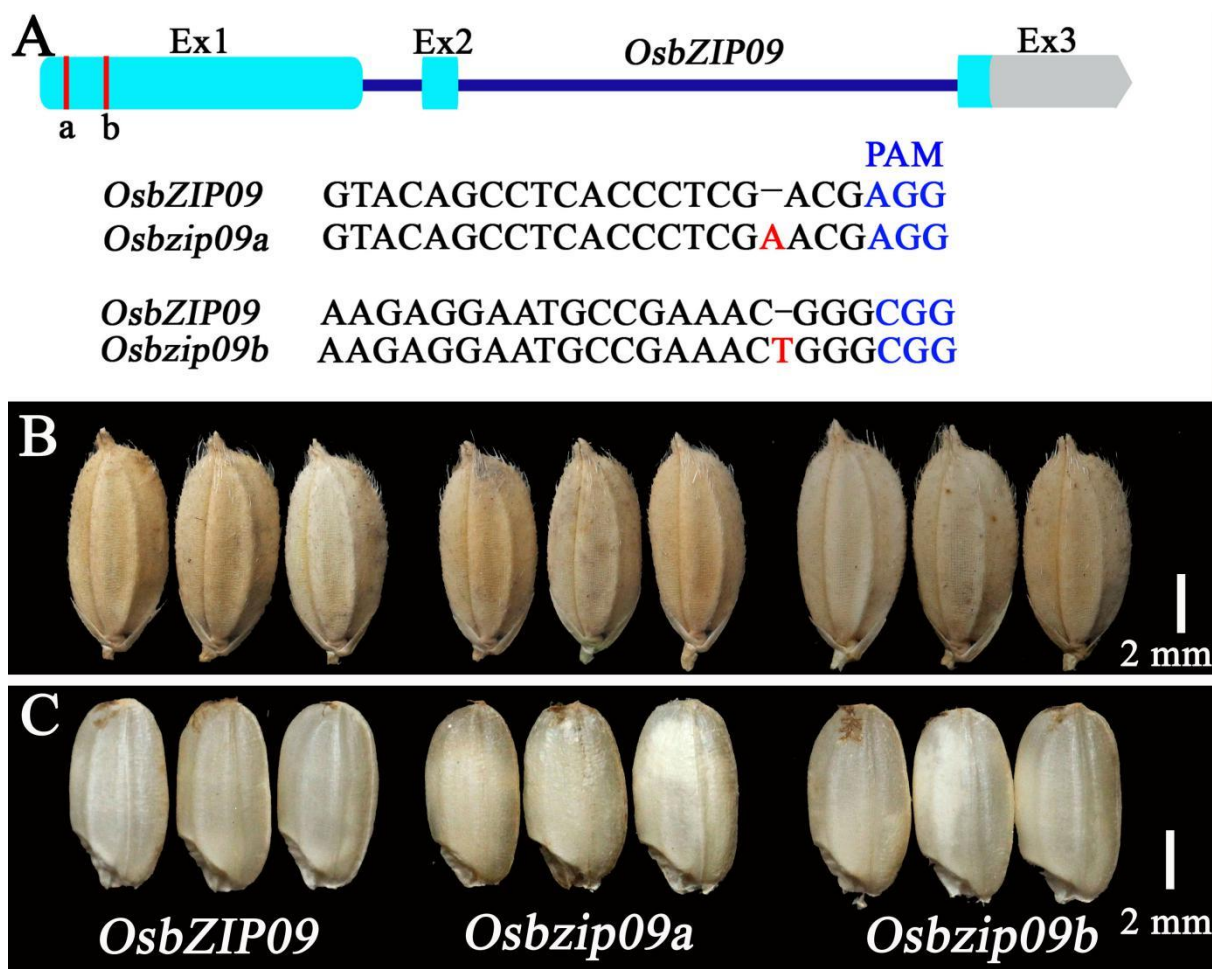


Figure S1. Schematic of the mutation sites in the *OsbZIP09* gene (**A**) and the phenotype of rice seeds (**B** and **C**). The protospacer adjacent motif (PAM) is highlighted in blue.

Supplementary Table S1 Amylopectin chain distributions of amylopectin in different fractions of endosperm starch from different rice lines.

Lines	DPs (%)			
	6 ≤ DP ≤ 12	13 ≤ DP ≤ 24	25 ≤ DP ≤ 36	DP ≥ 37
ZH11	29.13 ± 0.35 ^b	42.92 ± 0.26 ^a	12.04 ± 0.35 ^a	16.08 ± 0.26 ^a
osbzip09a	31.92 ± 0.52 ^a	39.86 ± 0.61 ^b	11.98 ± 0.48 ^a	16.02 ± 0.14 ^a
osbzip09b	32.01 ± 0.47 ^a	40.05 ± 0.32 ^b	12.01 ± 0.51 ^a	15.97 ± 0.23 ^a

^a Data are presented as means ± standard deviation. For each column, values not displaying the same letter are significantly different ($p < 0.05$). DP, degree of polymerisation.

Supplementary Table S2 . Pasting properties of starches from different rice lines.

Lines	PKV (cP)	HPV (cP)	BDV (cP)	CPV(cP)	SBV (cP)	P _{Time} (min)	PT (°C)
ZH11	2582.5 ± 28.3 ^b	1977.0 ± 16.9 ^b	605.0 ± 11.3 ^b	2835.5 ± 15.5 ^b	253.5 ± 12.7 ^a	6.5 ± 0.1 ^a	76.9 ± 0.1 ^a
<i>osbzip09a</i>	3062.0 ± 15.6 ^a	2262.5 ± 9.2 ^a	799.5 ± 6.7 ^a	3358.5 ± 12.7 ^a	266.0 ± 18.1 ^a	6.5 ± 0.1 ^a	76.7 ± 0.1 ^a

<i>osbizip0</i>	3102.5 ±	2196.5 ±		3332.0 ±	251.5 ±		76.6 ±
<i>9b</i>	7.8 ^a	23.3 ^a	906.0 ± 15.6 ^a	13.5 ^a	16.3 ^a	6.4 ± 0.1 ^a	0.2 ^a

All data are means ± standard deviations, $n = 2$. Means with the same letter in each column are not significantly different ($p < 0.05$). PKV, peak viscosity; HPV, hot paste viscosity; CPV, cool paste viscosity; BDV, breakdown viscosity; SBV, setback viscosity; P_{time} , peak time; PT, pasting temperature.