



Figure 9. Disease resistance of the rice *osmt1a/b* knockout lines.

(A) Blast resistance of two independent *osmt1a/b* knockout lines compared with the parental Nipponbare (Nip) plants. Three representative leaves collected at 3 d postinoculation of the blast isolate Guy11 are shown. (B) Lesion numbers per cm² on rice leaves (mean \pm SD, $n > 10$ leaves) after inoculation with blast fungus as in (A). (C) Expression of defense marker genes (*PR5*, and *PAL*) in *osmt1a/b* and Nipponbare at the indicated times after infection of Guy11 measured by qRT-PCR. The y-axis represents the relative expression value (\log_2 – transformed, mean \pm SD, $n = 3$) normalized to *Osactin* (*Os03g0718100*). *, Statistical significance ($P < 0.01$) determined by the Student's *t*-test; ns, no significant difference.