



Fig. S4 Mutation in *OsPHR3* differentially affects total N concentration in different tissues. Seeds of the WT and the mutants (*osphr3-1* and *3-2*) were grown in a pot soil for 13 weeks (grain-harvest stage). Total N concentration was assayed in 1st, 3rd and 6th leaf blade (LB), culm (C), leaf sheath (LS), panicle (P) and seed (S) of the WT and the mutants (*osphr3-1* and *3-2*). The order of leaf blades is from top to bottom. Values are means \pm SE ($n = 5$) and different letters on the histograms indicate that the values differ significantly ($P < 0.05$, one-way ANOVA).