**Table S6. Callose deposition assay: Data from three transgenic Arabidopsis lines ectopically expressing either *OsPUB41* or *OsPUB41C40A***

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| a**Stable transgenic Arabidopsis lines ectopically expressing *OsPUB41*** |
| **Line 33** |
| dRepeat | bUninduced (Average ± Standard error) | Induced (Average ± Standard error) | cp value | N (number of leaves analyzed) |
| Set 1 | 21.8 ± 3.1 | 59.2 ± 6.2 | 0.0006 | 5 |
| Set 2 | 35.5 ± 1.6 | 95.5 + 6.4 | 0.0001 | 5 |
| Set 3 | 33.1 ± 1.2 | 84 ± 7.7 | 0.0002 | 5 |
| **Line 12** |
| Repeat | Uninduced (Average ± Standard error) | Induced (Average ± Standard error) | p value | N (number of leaves analyzed) |
| Set 1 | 18 ± 4 | 55.4 ± 6.7 | 0.0014 | 5 |
| Set 2 | 23.8 ± 5.6 | 62.2 ± 10.4 | 0.0044 | 10 |
| Set 3 | 26.2 ± 4.6 | 64.8 ± 9.9 | 0.0077 | 5 |
| **Line 1** |
| Repeat | Uninduced (Average ± Standard error) | Induced (Average ± Standard error) | p value | N (number of leaves analyzed) |
| Set 1 | 29.8 ± 4.9 | 71.6 ± 9.1 | 0.0014 | 5 |
| Set 2 | 24.2 ± 10.3 | 63 ± 5.3 | 0.0102 | 5 |
| Set 3 | 16.4 ± 6.4 | 81.6 ± 5.7 | 0.0001 | 5 |
| **Stable Arabidopsis transgenic lines ectopically expressing *OsPUB41C40A*** |
| **Line 15** |
| Repeat | Uninduced (Average ± Standard error) | Induced (Average ± Standard error) | p value | N (number of leaves analyzed) |
| Set 1 | 19 ± 5.3 | 24 ± 6 | 0.55 | 5 |
| Set 2 | 25 ± 5.5 | 22.8 ± 7.1 | 0.81 | 5 |
| Set 3 | 30.2 ± 4.6 | 25.2 ± 11.1 | 0.69 | 5 |
| **Line 16** |
| Repeat | Uninduced (Average ± Standard error) | Induced (Average ± Standard error) | p value | N (number of leaves analyzed) |
| Set 1 | 26.1 ± 4.8 | 25.7 ± 0.5 | 0.94 | 5 |
| Set 2 | 31.2 ± 3.3 | 35 ± 1.9 | 0.35 | 5 |
| Set 3 | 32.4 ± 1.4 | 34.9 ± 1.8 | 0.31 | 5 |
| **Line 19** |
| Repeat | Uninduced (Average ± Standard error) | Induced (Average ± Standard error) | p value | N (number of leaves analyzed) |
| Set 1 | 30.6 ± 3.7 | 32.4 ± 6.6 | 0.82 | 5 |
| Set 2 | 34.6 ± 7.8 | 29.8 ± 4.7 | 0.61 | 5 |
| Set 3 | 28.3 ± 4.2 | 29.2 ± 3.5 | 0.88 | 6 |

aLeaves of thirty-days-old Arabidopsis wild type (Col-0) plants were infiltrated either with estradiol (Col-0 Induced) or with DMSO (Col-0 Uninduced). Twelve hours later, these leaves were stained with aniline blue and observed under an epifluorescence microscope.

bThe tabulated value represents average number of callose deposits per field of view (0.075 mm2) ± standard error, from five to ten leaves (N) with six to eight different fields viewed per leaf in each experiment.

cStudent’s two-tailed t-test for independent means was performed to test for significance (p value).

dSimilar results were obtained in three independent experiments or repeats (Set 1, Set 2 and Set 3).