## Supplementary Figures

### A

|        | Root | Stem | Leaf | Influenzence | Seed |
|--------|------|------|------|--------------|------|
| ARF    | 1.00 | 2.71 | 0.50 | 0.18         |      |
| NAV    | 1.00 | 1.96 | 1.81 | 1.61         | 0.26 |
| REM    | 1.00 | 1.83 | 0.11 | 1.67         | 0.32 |
| ARF    | 1.00 | 1.72 | 0.16 | 1.62         | 2.28 |
| NAV    | 1.00 | 1.40 | 3.30 | 1.05         | 1.20 |
| NAV    | 1.00 | 1.05 | 0.70 | 1.30         | 1.25 |
| NAV    | 1.00 | 1.00 | 0.50 | 1.75         | 1.50 |
| NAV    | 1.00 | 1.00 | 0.46 | 1.46         | 0.62 |
| NAV    | 1.00 | 0.82 | 0.92 | 0.94         | 2.12 |
| NAV    | 1.00 | 0.70 | 0.92 | 1.96         | 1.32 |
| NAV    | 1.00 | 0.70 | 2.00 | 2.00         | 5.00 |
| NAV    | 1.03 | 0.67 | 0.17 | 3.67         | 0.67 |
| NAV    | 1.00 | 0.64 | 0.36 | 0.61         | 0.44 |
| NAV    | 1.00 | 0.45 | 1.50 | 4.80         | 2.00 |
| NAV    | 1.00 | 0.45 | 0.50 | 1.00         | 0.00 |
| NAV    | 1.00 | 0.30 | 0.30 | 1.69         | 0.44 |
| NAV    | 1.00 | 0.30 | 0.75 | 0.75         | 0.50 |
| NAV    | 1.00 | 0.30 | 0.44 | 1.23         | 0.92 |
| NAV    | 1.00 | 0.21 | 0.00 | 10.00        | 0.03 |
| NAV    | 1.00 | 0.15 | 0.14 | 0.84         | 0.26 |

### B

|        | CK | Drought | Salinity | Heat |
|--------|----|---------|----------|------|
| ARF    |    | 1.07    | 7.03     | 1.58 |
| NAV    |    | 1.06    | 1.86     | 2.92 |
| NAV    |    | 1.00    | 2.87     | 6.57 |
| NAV    |    | 1.00    | 1.50     | 2.42 |
| NAV    |    | 1.01    | 2.79     | 8.63 |
| NAV    |    | 1.10    | 2.77     | 7.37 |
| NAV    |    | 1.00    | 1.39     | 3.23 |
| NAV    |    | 1.07    | 1.38     | 4.04 |
| NAV    |    | 1.10    | 1.30     | 3.17 |
| NAV    |    | 1.09    | 1.10     | 6.60 |
| NAV    |    | 1.04    | 1.03     | 1.64 |
| NAV    |    | 1.08    | 0.99     | 0.68 |
| NAV    |    | 1.00    | 0.94     | 2.50 |
| NAV    |    | 1.07    | 0.54     | 0.00 |
| NAV    |    | 1.02    | 0.79     | 1.70 |
| NAV    |    | 1.00    | 0.75     | 2.03 |
| NAV    |    | 1.15    | 0.62     | 6.79 |
| NAV    |    | 1.01    | 0.30     | 0.13 |
| NAV    |    | 1.04    | 0.26     | 0.11 |
| NAV    |    | 1.04    | 0.13     | 0.03 |

### C

|        | CK | Aven | SA | ABA | JA |
|--------|----|------|----|-----|----|
| ARF    |    | 1.12 | 34.81 | 4.79 | 0.54 | 14.13 |
| NAV    |    | 1.09 | 6.60 | 15.66 | 5.68 | 14.20 |
| NAV    |    | 1.07 | 6.40 | 1.60 | 2.62 | 8.44 |
| NAV    |    | 1.00 | 5.57 | 1.80 | 2.03 | 1.33 |
| NAV    |    | 1.00 | 4.42 | 4.63 | 0.02 | 0.11 |
| NAV    |    | 1.28 | 2.18 | 0.29 | 1.14 | 1.63 |
| NAV    |    | 1.00 | 1.81 | 1.65 | 1.37 | 0.94 |
| NAV    |    | 1.04 | 0.71 | 0.14 | 0.04 | 1.04 |
| NAV    |    | 1.01 | 1.09 | 1.46 | 2.93 | 2.48 |
| NAV    |    | 1.00 | 0.56 | 1.30 | 0.88 | 1.04 |
| NAV    |    | 1.01 | 1.50 | 1.03 | 1.41 | 0.70 |
| NAV    |    | 1.10 | 0.57 | 1.47 | 6.62 | 3.60 |
| NAV    |    | 1.00 | 0.55 | 1.43 | 0.98 |
| NAV    |    | 1.32 | 0.54 | 0.90 | 1.67 | 2.80 |
| NAV    |    | 1.00 | 0.49 | 1.34 |
| NAV    |    | 1.00 | 0.39 | 1.08 | 0.41 |
| NAV    |    | 1.04 | 0.37 | 0.50 | 2.10 |
| NAV    |    | 1.01 | 0.13 | 0.13 |
| NAV    |    | 1.07 | 0.19 | 0.30 |
| NAV    |    | 1.04 | 0.14 | 0.13 |

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**Figure S1** Gene expression heat maps of *BdB3* genes in different tissues (A), under different abiotic stress (B) and hormonal (C) conditions. Data are the mean average value of the expression (*n* = 3). The color represents expression levels, the redder the expression is, the higher the expression is; the bluer the expression is, the lower the expression is.
Figure S2 Confocal images of root tips of Col-0 and transgenic lines. 4-day-old seedlings of Col-0 and transgenic lines were stained with 10 mg/µl propidium iodide (PI) for 1-2 min, and then observed by CLSM. Scale bars = 100 µm.