Table 1 Suppl. Primer sequences of the *heme oxygenase 1* promoter (pHY1) clone and deletions for expression vector construction. Restriction endonuclease *Hind* III (AAGCTT) and *Nco* I (CCATGG) are underlined.

| Promoter name | Primer sequences | Position | Deletion type |
|---|---|---|---|
| pHY1 | F0: 5' AAGCTTGATTAGTAGGGAACTTGAG 3'<br>R0: 5' CCATGGGGTTTGATCGGAATAGAAA 3' | -1666 to +132 | - |
| 5D1 | F1: 5' AAGCTTTCGCAGATGCTTTCTTTAT 3'<br>R0: 5' CCATGGGGTTTGATCGGAATAGAAA 3' | -1528 to +132 | 5' |
| 5D2 | F2: 5' AAGCTTGTATTAAAGGAAATCCGCAGT 3'<br>R0: 5' CCATGGGGTTTGATCGGAATAGAAA 3' | -1109 to +132 | 5' |
| 5D3 | F3: 5' AAGCTTCTGTACTCCTAACTAGGTG 3'<br>R0: 5' CCATGGGGTTTGATCGGAATAGAAA 3' | -688 to +132 | 5' |
| 5D4 | F4: 5' AAGCTTACTGAATCGGCTCTAAATC 3'<br>R0: 5' CCATGGGGTTTGATCGGAATAGAAA 3' | -169 to +132 | 5' |
| 3D1 | F0: 5' AAGCTTGATTAGTAGGGAACTTGAG 3'<br>R1: 5' CCATGGGAAGTCACGCAATGTAGT 3' | -1666 to +100 | 3' |
| 3D2 | F0: 5' AAGCTTGATTAGTAGGGAACTTGAG 3'<br>R2: 5' CCATGGAATATTGTTTAGTTGTTTC 3' | -1666 to -1 | 3' |
| 3D3 | F0: 5' AAGCTTGATTAGTAGGGAACTTGAG 3'<br>R3: 5' CCATGGGACAGTTATATTTTTAATAG 3' | -1666 to -170 | 3' |

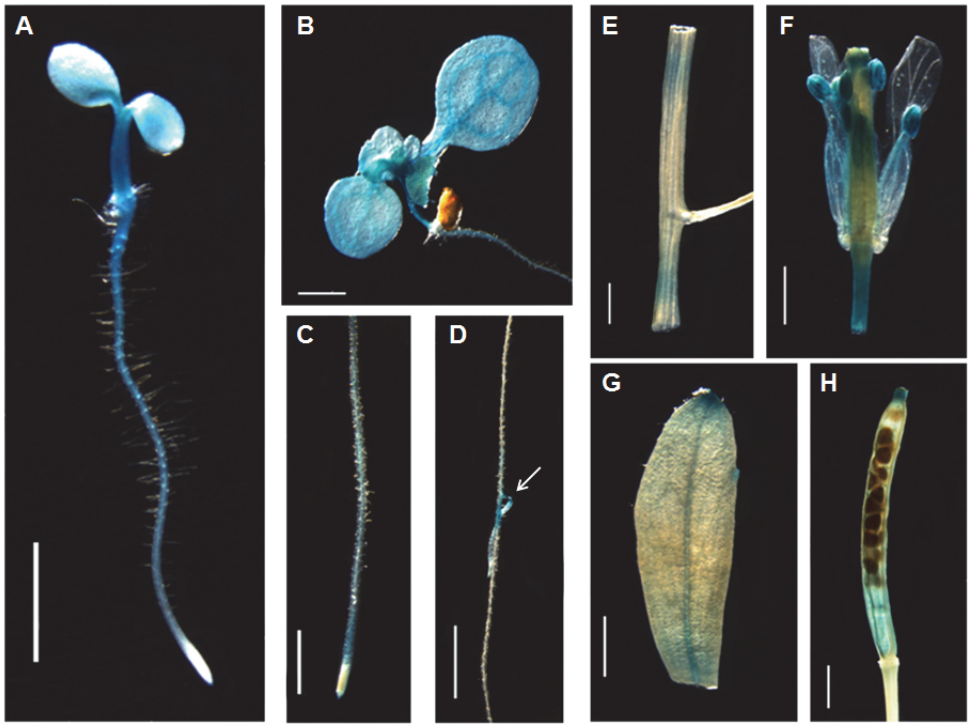


Fig. 1 Suppl. Tissues expression analysis of the *heme oxygenase 1* promoter in transgenic plants by histochemical staining assay. Different tissues from indicated development stages were collected and stained with 1 mM 5-bromo-4-chloro-3-indolyl β-D-glucuronide. A 3-d-old seedling (*A*), 10-d-old shoot (*B*), primary root (*C*), lateral root (*D*), stem (*E*), flower (*F*), cauline leaf (*G*), and silique (*H*) were measured. *Bar* = 1 mm.

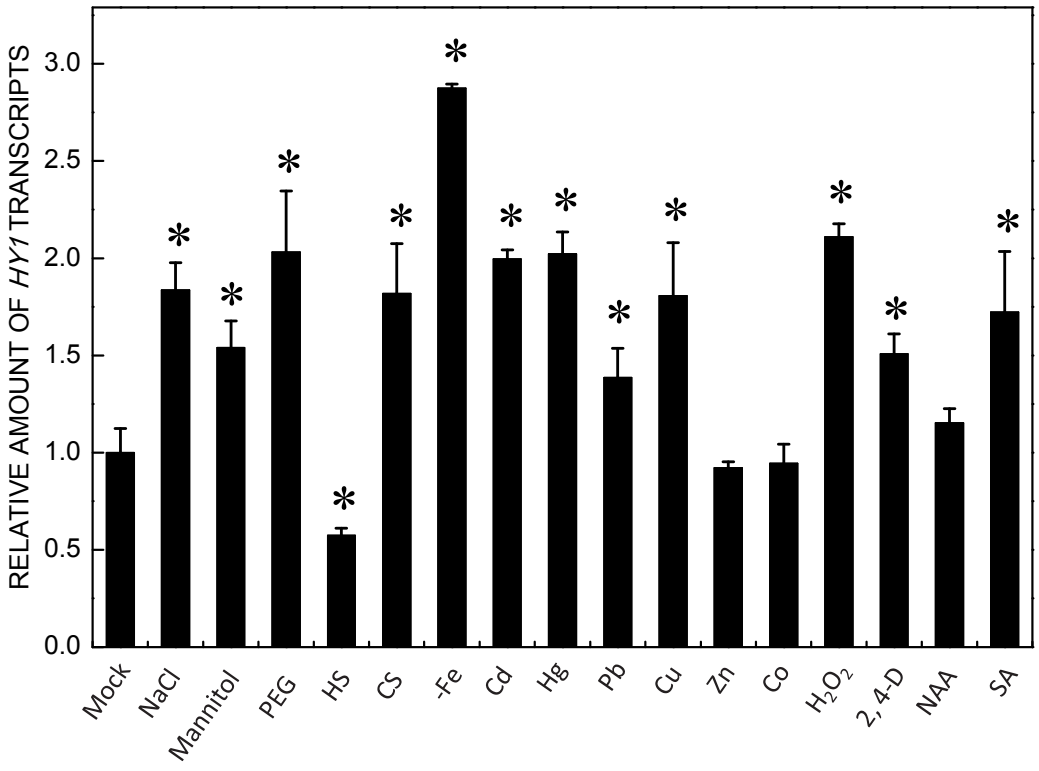


Fig. 2 Suppl. *Heme oxygenase 1* (*HY1*) expression in 10-d-old wild-type *Arabidopsis* seedlings grown on 1/2 Murashige and Skoog agar medium in response to different treatments lasted 6 h: control (mock), 10 mM NaCl, 30 mM mannitol, 2 % PEG, heat stress (37 $^{o}$C; HS), cold stress (4 $^{o}$C; CS), 50 μM $CdCl_2$ (Cd), 50 μM $HgCl_2$ (Hg), 50 μM $Pb(NO_3)_2$ (Pb), 100 μM $CuSO_4$ (Cu), 100 μM $ZnSO_4$ (Zn), 50 μM $CoCl_2$ (Co), 40 nM 2,4-dichlorophenoxyacetic acid (2,4-D), 100 nM 1-naphthalene acetic acid (NAA), and 500 μM salicylic acid (SA). Expression of *HY1* was analyzed by real-time PCR, and is relative to the control. Means ± SDs of three independent experiments. *Asterisk*s denote significant differences between the treatments and control at $P < 0.05$ according to Student's *t*-test.

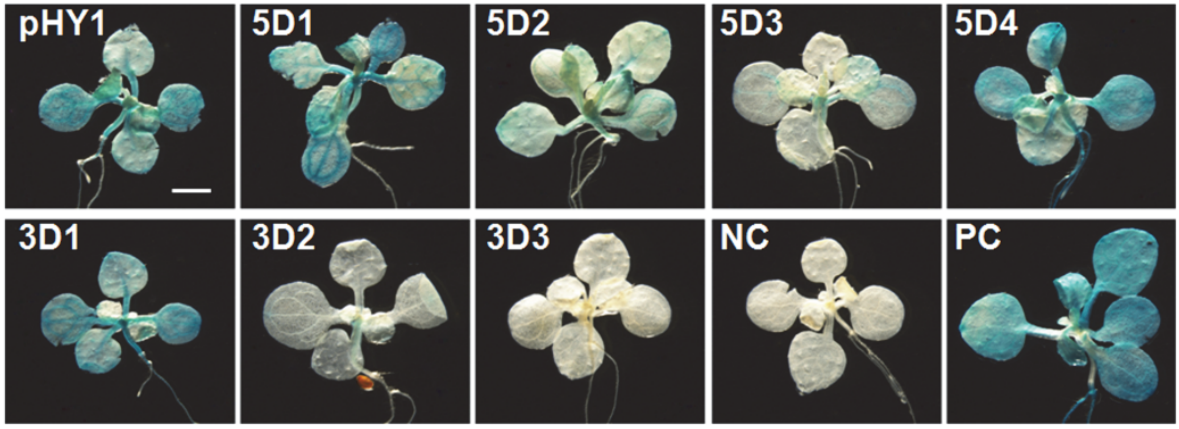


Fig. 3 Suppl. Deletion analysis of *heme oxygenase 1* (*HY1*) promoters in 15-d-old transgenic seedlings by histochemical staining assay. Representative photos of eight plants for each promoter construct are shown (*bar* = 2 mm). Wild-type and transgenic plants carrying the CaMV35S promoter fused to the *GUS* reporter gene were used as negative control (NC) and positive control (PC), respectively.