

Supplementary data

Identification and expression analysis of the heat shock transcription factor (*HSF*) gene family in *Populus trichocarpa*

Haizhen Zhang, Jingli Yang, Yunlin Chen, Xuliang Mao, Zhanchao Wang, Chenghao Li*

Table S1. The *populus* sample containing various stress condition were described in explot.

Sample ID	Sample_description	Experiment_des	Treatment protocol	Treatment level
GSM244438	leaf infection	Fungi	Poplar leaves were detached from trees and seperated to half-leaves. Half-leaves were kept on wet paper on their abaxial side inside Petri dishes prior to infection.	2,000 spores/cm ²
GSM244439	leaf infection	Fungi	Poplar leaves were detached from trees and seperated to half-leaves. Half-leaves were kept on wet paper on their abaxial side inside Petri dishes prior to infection.	2,000 spores/cm ²
GSM327380	seed	Development	0	6d
GSM386487	whole stem	Growth	name: stem def: A shoot axis that is the pri	3
GSM386497	whole stem	Growth	name: stem def: A shoot axis that is the pri	3
GSM386498	whole stem	Growth	name: stem def: A shoot axis that is the pri	3
GSM412656	leaf disc	Defence	Leaf discs (2-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM412657	leaf disc	Defence	Leaf discs (3-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM412658	leaf disc	Defence	Leaf discs (4-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM412659	leaf disc	Defence	Leaf discs (5-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM412660	leaf disc	Defence	Leaf discs (6-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM412661	leaf disc	Defence	Leaf discs (7-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM412662	leaf disc	Defence	Leaf discs (8-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM412663	leaf disc	Defence	Leaf discs (9-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM412664	leaf disc	Defence	Leaf discs (10-cm diameter) prepared from leaf	0.01% tween, Mmt 500 spores/cm ²
GSM444339	suspension cells	Habituation thaxtomin A	0	0
GSM529949	mature leaf	Drought	0	After 9 weeks of growth without water

Table S2. The primers of *HSF* genes were generated in Primer Primer 5 for qRT-PCR.

name	primer
PoptrHSFA1bF	GGTCCAATCTCCTGCTTCTGT
PoptrHSFA1bR	CATCCCCTTCTCAGACCCT
PoptrHSFA1cF	GTCATTCCTGGCAAAGGCTAT
PoptrHSFA1cR	TCATCTGAGGCTGATACTTCACAAT
PoptrHSFA4aF	TGCCCTGTAAACATGGAGC
PoptrHSFA4aR	ACCAGGTGATTTGGGACGA
PoptrHSFA4bF	CAGCTAATGCGAAAACAGAG
PoptrHSFA4bR	GAGCAGGCAATCCATCCAG
PoptrHSFA4cF	ACAAATGGAACGAAGACA
PoptrHSFA4cR	GACAGAGCTTGGGAAGTC
PoptrHSFA5aF	AGTTGAGGCTGGAATTATCACC
PoptrHSFA5aR	CGATGTCCCAGTATCCGAAAG
PoptrHSFB2aF	ATTCTTCTTCGGATGAGC
PoptrHSFB2aR	GTCAACTCCCCTTTTAGC
PoptrHSFB4cF	CCAACAACACTTTCGCAGAGC
PoptrHSFB4cR	TGTCCAACACCATACGAGCCT
PoptrHSFB4dF	CCCTCCATTTCAATCTCC
PoptrHSFB4dR	CTGACCCAAAACAGTACC
ActinF	ATGGCCGATGCCGAGGATATTCAAC
ActinR	GGTCAAGATACCTCTTTTAGATTGT