

Selection of suitable reference genes in *Paulownia fortunei* (Seem.) Hemsl. under different tissues and abiotic stresses for qPCR normalization

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Electronic Supplementary Material (ESM)

The authors are fully responsible for both the content and the formal aspects of the electronic supplementary material. No editorial adjustments were made.

<https://doi.org/10.17221/72/2022-CJGPB>Table S1. Raw cycle threshold (Ct) values of the 10 candidate reference genes (CRGs) and 2 target genes (TGs) in *Pau-
lownia fortunei*

	<i>TUA1</i>	<i>TUB</i>	<i>TUB1</i>	<i>TUB5</i>	<i>ACT1</i>	<i>ACT97</i>	<i>DANJ</i>	<i>APT</i>	<i>HIS4</i>	<i>18s rRNA</i>	<i>PfCesA2</i>	<i>GR</i>
Root-1	20.69	24.65	24.29	22.16	22.09	22.47	25.91	20.8	22.93	11.37	21.44	
Root-2	19.63	24.71	24.29	21.93	22.23	22.38	26.22	20.32	23.06	11.22	21.53	
Root-3	20.04	24.53	24.10	22.60	22.26	22.40	26.22	20.60	23.06	10.97	21.16	
Bark-1	20.09	24.84	23.66	22.52	22.95	22.84	26.05	20.75	23.88	10.31	21.32	
Bark-2	19.87	25.18	23.76	22.41	22.78	23.13	25.90	20.62	23.85	10.47	21.5	
Bark-3	20.02	25.13	23.63	22.43	22.59	22.65	25.89	20.62	23.86	10.25	21.32	
Xylem-1	19.88	26.05	23.33	22.69	24.01	22.54	25.99	20.41	23.75	9.62	22.44	
Xylem-2	20.81	26.47	24.33	22.21	23.11	22.45	26.11	20.44	23.76	9.81	22.24	
Xylem-3	20.35	26.16	23.22	22.29	23.32	23.23	25.90	20.41	23.60	9.90	22.31	
Leaf-1	20.03	24.95	23.23	22.27	22.89	21.46	25.63	21.96	24.71	10.06	22.93	
Leaf-2	19.83	25.64	23.99	21.86	22.95	21.58	25.68	21.95	24.5	9.82	22.53	
Leaf-3	20.25	24.61	23.83	22.35	22.9	21.53	25.57	21.99	24.6	10.11	22.63	
Drought0-1	25.14	29.98	28.06	28.11	25.47	25.37	27.3	23	26.34	11.39		28.29
Drought0-2	24.37	28.25	27.89	27.65	24.25	25.74	27.96	23.87	25.91	11.53		28.31
Drought0-3	23.2	28.66	27.97	28.47	23.71	26.23	28.93	23.32	26.01	11.32		27.76
Drought0.5-1	24.49	26.95	27.92	27.88	24.94	24.52	26.86	22.98	25.67	11.07		27.37
Drought0.5-2	24.06	28.4	28.03	27.91	24.76	24.8	27.01	23.3	25.91	11.03		26.88
Drought0.5-3	24.15	28.37	28.3	28.42	23.53	24.76	27.14	22.87	26.08	10.14		27.13
Drought3-1	23.92	27.31	28.17	28.14	25.75	24.78	27.62	24.06	27.54	9.6		28.21
Drought3-2	23.81	27.64	27.9	28.19	25.18	25.63	27.68	24.65	26.83	9.39		27.78
Drought3-3	23.57	29.33	27.71	27.86	25.79	25.29	27.7	24.24	27.18	11.45		27.86
Drought6-1	22.79	26.78	27.16	27.06	24.55	24.86	27.24	24.79	26.62	9.57		26.74
Drought6-2	22.66	28.22	27.55	27.1	24.74	24.88	26.95	24.86	26.57	9.62		27.39
Drought6-3	22.62	26.71	27.65	27.29	24.97	24.94	27.42	24.75	26.73	9.37		27.12
Drought12-1	24.2	26.52	27.57	27.53	23.82	24.52	26.43	21.91	26.9	9.4		26.17
Drought12-2	24.23	27.6	28.07	27.39	22.7	24.72	26.59	22.94	25.89	9.96		26.46
Drought12-3	24.25	28.19	27.81	27.63	23.45	24.75	26.75	23.32	25.56	9.93		26.25
Drought24-1	22.19	26.14	26.3	26.54	22.32	23.71	25.9	22.4	24.76	9.18		25.9
Drought24-2	22.35	26.5	26.29	26.5	23.23	23.79	26.27	23.11	25.89	9		24.95
Drought24-3	21.99	27.19	26.29	26.82	22.7	23.65	26.89	22.79	24.33	8.84		25.56
Salinity0-1	21.82	27.06	26.33	23.92	23.81	24.22	26.27	22.19	25.28	9.92		27.09
Salinity0-2	22.67	25.69	26.82	24.23	23.9	24.45	26.27	21.95	25.18	10.32		26.62
Salinity0-3	22.19	26.86	27.27	23.95	23.87	24.38	26.61	22.11	25.1	10.91		26.89
Salinity0.5-1	22.47	27.43	24.65	22.88	23.3	23.9	25.74	22.28	24.7	9.52		25.86
Salinity0.5-2	23.09	26.78	25.68	23.61	23.6	23.76	26.35	22.5	24.94	9.67		26.03
Salinity0.5-3	22.89	27.36	24.78	23.43	23.5	23.87	25.9	22.09	24.8	9.58		25.94
Salinity3-1	21.61	26.2	25.53	21.75	23.02	23.42	25.95	21.48	24.77	8.83		25.44
Salinity3-2	21.98	26.96	24.33	23.06	23.17	23.7	25.59	21.56	24.87	9.26		25.65
Salinity3-3	21.34	27.7	23.66	23.15	23.49	23.69	25.31	21.65	24.92	9.53		25.59
Salinity6-1	20.02	25.25	25.32	22.23	22.57	23.07	25.72	22.25	25.29	8.82		25.35
Salinity6-2	20.65	25.22	24.74	22.03	23.34	23.37	27.35	21.7	25.36	8.91		25.26
Salinity6-3	20.99	25.4	24.31	23.15	23.01	23.71	25.73	21.89	25.26	9.29		25.34
Salinity12-1	21.18	26.6	24.44	22.61	22.12	23.25	24.4	21.4	25.09	9.41		25.52

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Table S1 to be continued

	<i>TUA1</i>	<i>TUB</i>	<i>TUB1</i>	<i>TUB5</i>	<i>ACT1</i>	<i>ACT97</i>	<i>DANJ</i>	<i>APT</i>	<i>HIS4</i>	<i>18s rRNA</i>	<i>PfCesA2</i>	<i>GR</i>
Salinity12-2	21.17	25.84	24.09	22.62	22.31	23.2	25.24	21.46	25.22	9.94		25.38
Salinity12-3	21.45	25.47	24.58	23.22	22.9	23.43	24.43	21.27	24.97	9.54		25.47
Salinity24-1	21.49	27.42	25.09	23.61	24.45	24.34	26.65	22.55	25.84	8.91		26.7
Salinity24-2	22.15	26.89	24.97	23.39	24.59	24.2	26.49	22.45	25.85	8.86		26.47
Salinity24-3	21.8	27.52	25.34	23.97	24.37	24.12	26.44	22.79	25.7	9.18		26.72
Cd0-1	24.87	27.62	27.13	24.98	24.57	24.91	26.58	22.96	25.79	11.67		27.26
Cd0-2	23.59	28.26	26.99	25.1	24.76	25.1	27.26	22.68	26.3	11.45		27.24
Cd0-3	24.12	27.89	27.3	25.2	24.47	25.12	26.9	22.75	26.16	11.74		26.87
Cd0.5-1	24.13	29.97	27.74	26.48	25.84	26.08	27.65	23.75	26.71	11.26		28.61
Cd0.5-2	23.76	29.76	27.94	26.4	26.73	26.29	27.61	23.66	26.68	11.17		29.16
Cd0.5-3	23.95	29.55	27.79	26.51	25.83	25.81	27.53	23.75	26.99	11.12		28.96
Cd3-1	23.1	26.69	26.14	24.94	23.8	24.09	26.11	22.92	27.28	11.15		27.03
Cd3-2	21.85	26.56	26.33	24.99	22.72	24.28	25.72	22.96	27.45	11.32		26.9
Cd3-3	22.31	27.06	27	25.23	23.44	24.48	25.72	22.84	27.29	11.3		27.04
Cd6-1	22.31	26.87	26.16	24.75	24.9	24.44	25.93	23.53	27.36	10.38		26.97
Cd6-2	22.23	26.99	26.62	24.34	24.48	24.14	26.34	23.34	27.81	10.25		26.85
Cd6-3	21.69	27.64	25.86	24.62	24.52	24.71	26.67	23.26	27.03	10.32		26.9
Cd12-1	22.57	25.76	26.48	23.61	24.39	24.3	25.9	23.38	26.21	10.3		26.6
Cd12-2	23.02	25.87	25.3	23.73	24.21	24.74	25.64	23.28	26.94	10.34		26.61
Cd12-3	22.06	26.34	26.51	23.49	24.32	24.49	25.67	23.27	26.3	10.18		26.63
Cd24-1	21.5	26.4	26.96	23.97	24.21	24.03	26.57	23.92	26.36	11.13		27.32
Cd24-2	22.29	26.24	25.7	24.31	25.01	24.33	26.39	24.08	26.36	11.02		27.48
Cd24-3	22.26	26.75	26.43	24.48	24.91	24.38	26.13	24.35	26.7	11.46		27.21
Cr0-1	23.97	29.8	27.57	26.22	25.53	26.5	26.86	23.79	27.07	12.04		29.34
Cr0-2	24.19	28.67	28.51	25.82	25.51	27.34	28.19	23.97	27.01	12.06		29.59
Cr0-3	23.99	29.21	28.68	25.62	25.8	26.89	27.99	23.95	27.34	11.97		29.27
Cr0.5-1	24.96	29.05	27.8	25.77	26.04	26.38	27.62	24.54	27.52	11.15		28.22
Cr0.5-2	25.13	28.91	28.17	25.55	26.6	26.17	27.4	24.51	27.57	11.23		28.14
Cr0.5-3	24.55	28.83	27.87	26.43	26.4	26.2	27.6	24.63	27.46	11.17		28.18
Cr3-1	22.29	26.56	26.12	23.7	23.8	24.24	25.86	22.88	27.98	10.45		27.25
Cr3-2	21.76	26.59	25.41	24.12	23.83	24.39	25.9	22.64	26.73	10.63		26.91
Cr3-3	21.89	26.66	26.32	24.42	24.06	24.3	25.91	22.69	26.67	10.54		26.58
Cr6-1	20.58	25.06	25.66	22.03	22.67	23.32	25.37	21.95	26.56	10.66		26.02
Cr6-2	20.7	25.36	25.11	23.42	22.72	23.53	25.27	22.06	25.86	10.87		26.05
Cr6-3	20.94	25.33	25.13	23.47	22.64	23.75	25.34	22.97	26.33	10.66		26.06
Cr12-1	23.32	27.73	26.65	23.66	25.25	25.8	26.77	23.61	27.36	11.62		27.03
Cr12-2	23.88	27.8	26.64	24.44	25.28	25.14	26.61	23.47	27.02	11.58		27.19
Cr12-3	24.1	28.22	26.68	24.06	25.15	25.27	26.66	24.49	27.54	11.53		26.89
Cr24-1	21.78	27.52	26.19	24.99	25.38	24.39	26.97	23.85	27.43	11.15		27.83
Cr24-2	22.23	26.8	25.9	24.89	25.63	24.27	26.87	24.07	27.31	11.13		27.61
Cr24-3	22.13	27.41	25.82	25	25.76	24.54	26.46	25.93	27.45	11.12		27.64

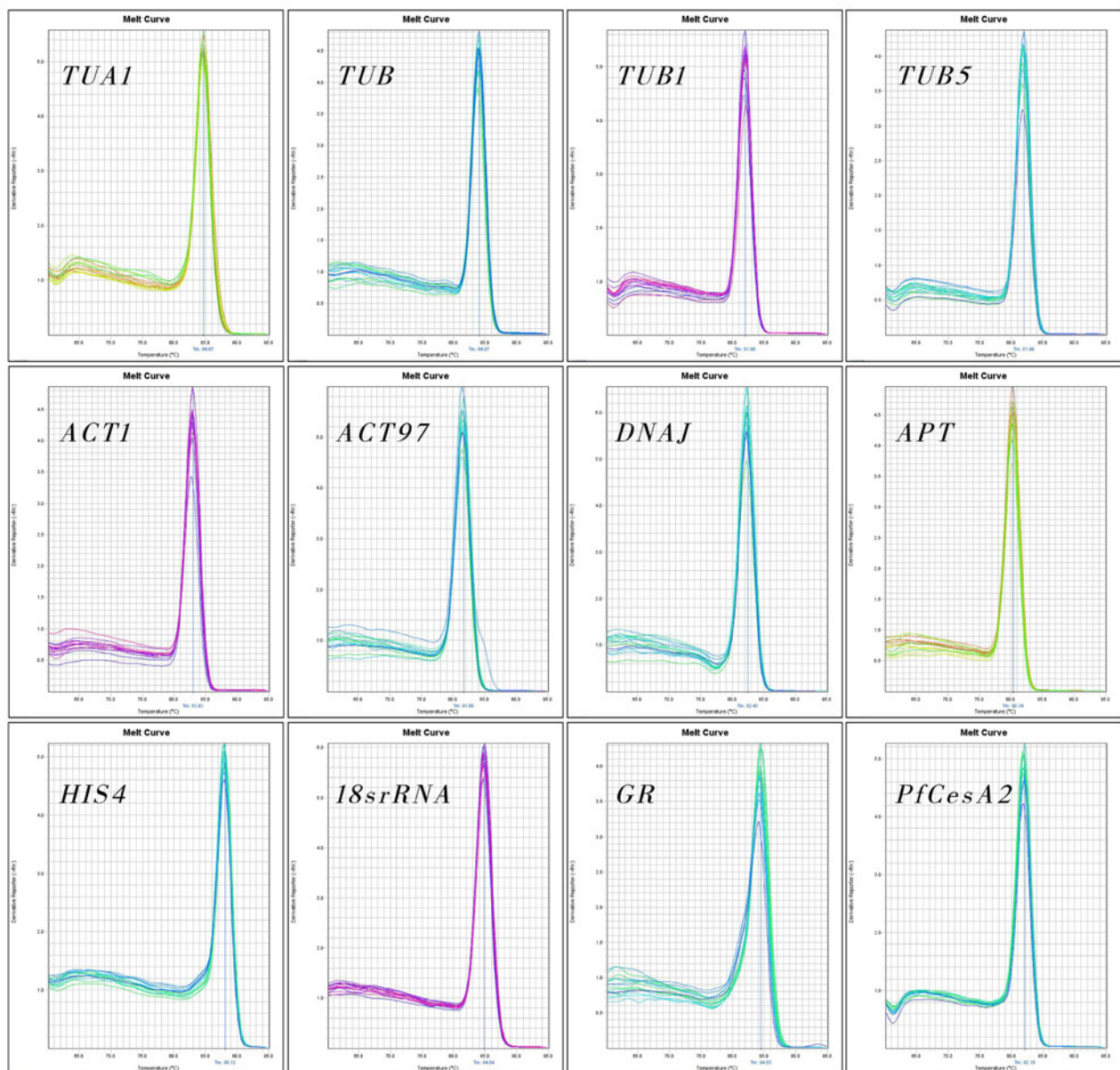


Figure S1. The melting curve of *TUA1*, *TUB*, *TUB1*, *TUB5*, *ACT1*, *ACT97*, *DNAJ*, *APT*, *HIS4*, 18s rRNA, *GR*, and *PfCesA2* genes

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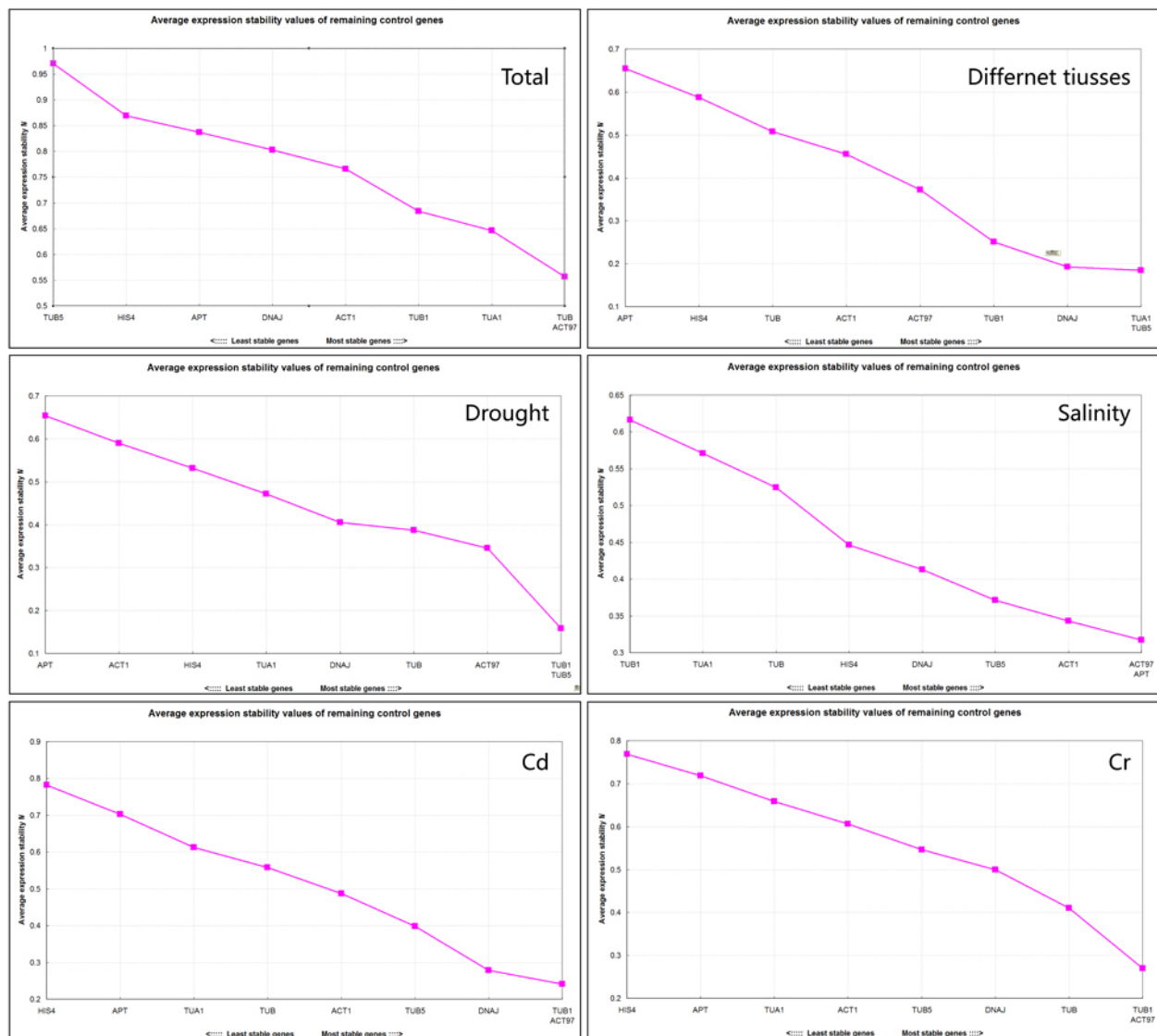


Figure S2. The average expression stability values of the candidate reference genes (CRGs) analysed by geNorm