

**Table S1.** The place of origin of the tested tung tree accessions

Code	Latitude	Longitude	Collection site
1-AH	31.23	115.87	Jinzhai, Heping, AH
2-AH	31.25	115.87	Jinzhai, Heping, AH
3-AH	31.24	115.88	Jinzhai, Fengping, AH
4-AH	31.26	115.91	Jinzhai, Yanzihe, AH
5-AH	31.26	115.93	Jinzhai, Yanzihe, AH
6-AH	30.81	115.99	Yuexi, Hetu, AH
7-AH	30.87	116.66	Qianshan, Huxing, AH
8-AH	30.49	117.80	Qingyang, Jiuhuashan, AH
9-AH	30.02	118.18	Huangshan City, Huizhou, AH
10-SX	32.52	104.15	Pingli, Qiligou, SX
11-SX	32.96	108.32	Shiquan, Chigou, SX
12-SX	33.03	108.15	Shiquan, Zenxi, SX
13-SX	33.01	108.14	Shiquan, Zenxi, SX
14-SX	33.11	108.47	Mianxian, SX
15-SX	33.11	108.47	Mianxian, SX
16-HB	29.40	109.30	Laifeng, HB
17-HB	29.40	109.30	Laifeng, HB
18-HB	30.70	115.30	Luotian, HB
19-HB	31.56	114.09	Dawu, HB
20-HB	31.50	114.00	Guangshui, HB
21-HB	31.60	113.30	Zengdu, HB
22-HB	32.80	110.80	Yuanxian, HB
23-HB	32.90	110.40	Yuanxi, HB
24-HB	31.10	114.20	Huangpi, HB
25-HB	31.10	114.20	Huangpi, HB
26-HB	30.68	115.40	Luotian, Luotuo, HB
27-HB	29.95	109.51	Huan'en, HB
28-HB	30.68	115.94	Tuanfeng, Fanggaoping, HB
29-HB	30.81	115.84	Yingshan, Yangliuwan, HB
30-HB	29.84	115.07	YangXin, Futu, HB
31-HN	29.28	109.64	Longshan, Yanxi, HN
32-HN	28.35	109.55	Jishou, Aizhai, HN
33-HN	27.59	109.97	Huaihua city, Hecheng, HN
34-HN	26.38	109.62	Jingzhou, Guchong, HN
35-HN	26.13	109.79	Tongdao, HN
36-HN	26.24	112.47	Changning, Luoqiao, HN
37-HN	26.38	117.76	Xingning, Yintian, HN
38-HN	26.37	112.72	Laiyang, Nanjing, HN
39-HN	26.84	113.59	Chaling, Yaopo, HN
40-CQ	30.91	108.43	Wanzhou, Xiongjia, CQ
41-CQ	31.10	109.47	Fengjie, Baidi, CQ
42-CQ	29.48	108.61	Qianjiang, Shaba, CQ

43-CQ	29.85	107.55	Peiling, CQ
44-CQ	28.86	108.44	Youyang, Tianguan, CQ
45-CQ	29.29	106.71	Banan, CQ
46-CQ	30.65	107.80	Liangping,, CQ
47-GZ	26.11	108.31	Rongjiang, Pingyong, GZ
48-GZ	26.56	108.06	Kaili, Sankeshu, GZ
49-GZ	26.68	108.18	Taijiang, Taipan, GZ
50-GZ	26.93	108.65	Sansui, qingdong, GZ
51-SC	28.71	104.51	Yinbin, Boxi, SC
52-SC	28.72	104.48	Yinbin, Shao'e, SC
53-SC	28.59	104.09	Changning, Liangchahe, SC
54-SC	28.92	104.91	Nanxi, Liuja, SC
55-SC	30.80	106.39	Nanchong, Gaoping, SC
56-SC	30.83	106.60	Peng'an, Luojia, SC
57-SC	30.77	107.11	Dazhu, SC
58-SC	31.21	107.58	Daxian, Shixiang, SC
59-SC	31.06	107.94	Kaijiang, SC
60-SC	30.71	105.18	Daying, Xiangshan, SC
61-SC	30.79	105.95	Nanchong, SC
62-SC	30.80	105.09	Santai, Anju, SC
63-SC	29.92	105.14	An'yue, Zhouli, SC
64-SC	28.53	104.68	Gaoxian, Fuxing, SC
65-SC	29.98	102.99	Ya'an, SC
66-SC	30.92	104.49	Jintang, Sanxing, SC
67-SC	30.89	104.51	Jintang, Sanxing, SC
68-SC	31.09	104.60	Zhongjiang, Huanxing, SC
69-SC	30.57	105.25	Daying, Penglai, SC
70-SC	30.70	105.19	Daying, Xiangshan, SC
71-SC	30.71	105.25	Shehong, Xingwu, SC
72-JX	27.01	113.95	Lianhua, Wenzhu, JX
73-JX	27.02	114.42	Yongxin, Gaoqiao, JX
74-JX	26.97	114.64	Yongxin, Aocheng, JX
75-JX	27.41	114.77	Anfu, Fengtian, JX
76-JX	27.77	114.80	Xinyu, Yushui, JX
77-JX	28.61	114.75	Yingfeng, Guyang, JX
78-JX	28.66	114.75	Yingfeng, Tanshan, JX
79-JX	28.67	114.72	Yingfeng, Tongguo, JX
80-JX	29.44	115.19	Wuning, Luoxi, JX
81-ZJ	30.13	119.03	Lin'an, Qingliangfeng, ZJ
82-ZJ	28.70	120.07	Jinyun, Donghuiling, ZJ
83-ZJ	28.17	119.59	Yunhe, Shitang, ZJ
84-ZJ	27.54	119.70	Taishui, Luotian, ZJ
85-FJ	27.49	119.65	Shouning, FJ
86-FJ	27.42	119.64	Shouning, Qingyuan, FJ

87-FJ	27.42	119.64	Shouning, Qinyang, FJ
88-FJ	26.29	118.85	Minqing, FJ
89-GD	25.29	114.71	Nanxiong, GD
90-GD	25.29	114.71	Nanxiong, GD
91-GD	25.24	113.36	Lechang, Beixiang, GD
92-GD	25.25	113.36	Lechang, Dayuan, GD
93-GX	25.69	110.06	Longsheng, Zhongyong, GX
94-GX	25.18	109.79	Yongfu, Baishou, GX
95-GX	25.47	109.49	Sanjiang, Danzhou, GX

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**Note:** AH, Anhui Province; SX, Shaanxi Province; HB, Hubei Province; HN, Hunan Province; CQ, Chongqing municipality; GZ, Guizhou Province; SC, Sichuan Province; JX, Jiangxi Province; ZJ, Zhejiang Province; FJ, Fujian Province; GD, Guangdong Province; GX, Guangxi Zhuangzu Autonomous Region