**Table S1.** **The place of origin and geographic parameters for the examined 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, Liujia, 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 |

\* 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.