

**S2 Table. Basic information of the accessions used for sequencing analysis.**

<b>NO.</b>	<b>Accession name</b>	<b>Origin and geographic coordinates ( E, N)</b>	<b>mean±SD</b>
1	Nipponbare	Tsukuba, Ibaraki, Japan (36.03, 140.08)	1.72±0.02
2	Kasalath	Karimganj, Assam, Indian (24.87, 92.35)	1.96±0.02**
3	Zhongjing 9677	Huaian, Jiangsu, China (118.26, 33.85)	1.63±0.01**
4	Yanglingdao	Wuxi, Jiangsu, China (121.31, 31.49)	1.64±0.02**
5	Jia 159	Jiaxing, Zhejiang, China (120.76, 30.75)	1.66±0.01**
6	Nannongjing 005	Nanjing, Jiangsu, China (118.64, 32.07)	1.66±0.02**
7	Sanbailitou	Kunshan, Jiangsu, China (120.98, 31.39)	1.67±0.01**
8	Zhongjing 212	Huaian, Jiangsu, China (118.26, 33.85)	1.67±0.02**
9	863B	Nanjing, Jiangsu, China (118.64, 32.07)	1.67±0.02**
10	Cuganhuangdao	Wujiang, Jiangsu, China (120.65, 31.14)	1.68±0.02**
11	Jianongnuo 2	Jiading, Shanghai, China (121.26, 30.74)	1.68±0.02**
12	Yangfujing 7	Yangzhou, Jiangsu, China (119.41, 32.39)	1.68±0.02**
13	Ligengqing	Yixing, Jiangsu, China (119.82, 31.34)	1.69±0.02*
14	Ebusinuodao	Wuxi, Jiangsu, China (121.31, 31.49)	1.69±0.01**
15	Zaoshirihuangdao	Wuxian, Jiangsu, China (121.63, 31.26)	1.69±0.01**
16	Wuyujing 3	Wujin, Jiangsu, China (119.94, 31.70)	1.69±0.01**
17	Zhendao 99	Zhenjiang, Jiangsu, China (119.25, 31.64)	1.69±0.01**
18	Yefenghuang	Wujiang, Jiangsu, China (120.65, 31.14)	1.69±0.02*
19	Ludao	Lianyungang, Jiangsu, China (119.28, 34.58)	1.69±0.03*
20	Xiangzhunuo	Changshu, Jiangsu, China (120.75, 31.65)	1.70±0.01
21	Shendao 14	Ji'ning, Shandong, China (116.61, 35.39)	1.70±0.01
22	Jiangfeng 4	Jiangyin, Jiangsu, China (120.29, 31.92)	1.70±0.02
23	Nantouzhong	Kunshan, Jiangsu, China (120.98, 31.39)	1.70±0.02
24	Yaxuenuo	Wuxian, Jiangsu, China (121.63, 31.26)	1.70±0.02
25	Xiangjing 9407	Ji'ning, Shandong, China (116.61, 35.39)	1.70±0.02
26	Sihao 4029	Suqian, Jiangsu, China (118.26, 33.85)	1.70±0.02
27	Guozinuo	Jiading, Shanghai, China (121.26, 30.74)	1.71±0.01

28	Shiluqing	Kunshan, Jiangsu, China (120.98, 31.39)	1.71 ±0.01
29	Lianjing 9823	Lianyungang, Jiangsu, China (119.28, 34.58)	1.71 ±0.01
30	Jingnuo(zijian)	Nanjing, Jiangsu, China (118.64, 32.07)	1.71 ±0.02
31	5 jing 20	Nanjing, Jiangsu, China (118.64, 32.07)	1.71 ±0.02
32	Xiushui 79	Jiaxing, Zhejiang, China (120.76, 30.75)	1.71 ±0.02
33	Zhongjing 131	Huaian, Jiangsu, China (118.26, 33.85)	1.71 ±0.02
34	Zhenhan 2	Zhenzhou, Henan, China (113.69, 34.79)	1.71 ±0.02
35	Kongqueqing	Kunshan, Jiangsu, China (120.98, 31.39)	1.72 ±0.01
36	Yazihuang	Jinshan, Shanghai, China (121.34, 30.74)	1.72 ±0.02
37	Xudao 5	Xuzhou, Jiangsu, China (117.28, 34.21)	1.72 ±0.02
38	Yangguang 200	Xuzhou, Jiangsu, China (117.28, 34.21)	1.72 ±0.02
39	Shendao 808	Ji'ning, Shandong, China (116.61, 35.39)	1.72 ±0.02
40	Huajing 5	Nanjing, Jiangsu, China (118.64, 32.07)	1.72 ±0.02
41	Yandao8	Yancheng, Jiangsu, China (120.04, 33.37)	1.72 ±0.02
42	H37( 6427)	Nanjing, Jiangsu, China (118.64, 32.07)	1.72 ±0.03
43	Huangsandannuo	Wuxian, Jiangsu, China (121.63, 31.26)	1.72 ±0.02
44	Toudengyishixing	Kunshan, Jiangsu, China (120.98, 31.39)	1.72 ±0.03
45	Xiaoqingzhong	Changshu, Jiangsu, China (120.75, 31.65)	1.85 ±0.01**
46	Tieganqing	Wuxian, Jiangsu, China (121.63, 31.26)	1.85 ±0.02**
47	Longgouzhong	Qingpu, Shanghai, China (121.13, 31.15)	1.85 ±0.02**
48	Luohanguang	Jiangyin, Jiangsu, China (120.29, 31.92)	1.85 ±0.03**
49	5 jing 15	Nanjing, Jiangsu, China (118.64, 32.07)	1.85 ±0.03**
50	Kaiqing	Wuxian, Jiangsu, China (121.63, 31.26)	1.86 ±0.02**
51	Ningjing 2	Nanjing, Jiangsu, China (118.64, 32.07)	1.86 ±0.02**
52	Baikenuo	Wuxian, Jiangsu, China (121.63, 31.26)	1.87 ±0.01**
53	Xiaobaiyedao	Wuxi, Jiangsu, China (121.31, 31.49)	1.88 ±0.02**
54	Zijianxian3	Nanjing, Jiangsu, China (118.64, 32.07)	1.89 ±0.02**
55	Yanjing 9	Yancheng, Jiangsu, China (120.04, 33.37)	1.89 ±0.02**
56	Vietnam-77	Hue, Vietnam (16.46, 107.58)	1.90 ±0.02**

57	Baoxintaihuqing	Wujiang, Jiangsu, China (120.65, 31.14)	1.90±0.03**
58	Hongjiaozhan	Guangzhou, Guangdong, China (113.36, 23.15)	1.92±0.02**
59	II -32B	Changsha, Hunan, China (113.09, 28,20)	1.93±0.03**
60	Hongmangshajing	Kunshan, Jiangsu, China (120.98, 31.39)	1.94±0.01**
61	Wanyedao	Wuxian, Jiangsu, China (121.63, 31.26)	1.95±0.02**
62	Huangsandan	Wujiang, Jiangsu, China (120.65, 31.14)	1.95±0.02**
63	Wuxiangjing 14	Wujin, Jiangsu, China (119.94, 31.70)	1.95±0.02**
64	Beidao4	Suihua, Heilongjiang, China (127.18, 46.89)	2.01±0.03**
65	Wumangzaodao	Changshu, Jiangsu, China (120.75, 31.65)	2.04±0.03**
66	Beidao3	Suihua, Heilongjiang, China (127.18, 46.89)	2.07±0.02**
67	Vietnam-19	Hue, Vietnam (16.47, 107.58)	2.13±0.02**
68	Yuetai B	Guangzhou, Guangdong, China (113.36, 23.15)	2.13±0.04**
69	A7444	Changshu, Jiangsu, China (120.75, 31.65)	2.09±0.03
70	Tongjing 109	Nantong, Jiangsu, China (120.89, 31.98)	2.15±0.03**
71	Yangdao 6	Yangzhou, Jiangsu, China (119.41, 32.39)	2.19±0.02**
72	Vietnam-50	Hue, Vietnam (16.47, 107.58)	2.20±0.03**
73	H35	Nanjing, Jiangsu, China (118.64, 32.07)	2.22±0.02**
74	Vietnam-3	Hue, Vietnam (16.47, 107.58)	2.25±0.02**
75	Vietnam-84	Hue, Vietnam (16.47, 107.58)	2.30±0.03**
76	Vietnam-9	Hue, Vietnam (16.47, 107.58)	2.34±0.03**
77	Huanghuazhan	Guangzhou, Guangdong, China (113.36, 23.15)	2.46±0.03**
78	Vietnam-41	Hue, Vietnam (16.47, 107.58)	2.51±0.04**
79	Nongxiang 21	Changsha, Hunan, China (113.09, 28,20)	2.60±0.03**
80	Xiangwanxian17	Changsha, Hunan, China (113.09, 28,20)	2.64±0.05**
81	Nongxiang 26	Changsha, Hunan, China (113.09, 28,20)	2.67±0.04**
82	Yuzhenxiang	Changsha, Hunan, China (113.09, 28,20)	2.70±0.03**

No.1-2 are the original parents of the fine mapping population, No.3-42 are the accessions with short stigma length, and No.43-82 are the accessions with long stigma length. All stigma length data are given as the mean ± SD (summer 2014, Nanjing,

Jiangsu, China). \*, \*\* indicate the least significant difference at a 0.05 and 0.01 probability level compared with Nipponbare by *t* test, respectively.