

Supplementary Table S1 Main information of materials

Number	Variety name	Petal main color	Flower type	Source
1	‘Dragon Tree Maple’	White	Medium	Fuzhou
2	‘Fulle Sunset’	Yellow	Large	Fuzhou
3	‘Big Chili’	Purple	Large	Fuzhou
4	‘Anna’	Purple	Large	Fuzhou
5	‘Crystal’	Purple	Medium	Fuzhou
6	‘Little Plum Blossom’	Purple	Small	Fuzhou
7	‘Vivian’	Purple	Small	Fuzhou
8	‘Pink Baby’	Purple	Small	Fuzhou
9	‘Joy Spring Canary’	Purple	Small	Fuzhou
10	‘Tingxin Smart’	Purple	Small	Fuzhou
11	‘Red Sky’	Purple	Small	Fuzhou
12	‘Little Peafowl’	White	Small	Fuzhou
13	‘Little Tomato’	Red	Small	Fuzhou
14	‘Little Green Bear’	Green	Small	Fuzhou
15	‘Little Sun’	White	Small	Fuzhou
16	Chiada Stacy 607 X Blue Vincennes	Purple	Small	Quanzhou
17	‘Rimeilesha X Red Jennifer’	Red	Small	Quanzhou
18	‘JB5407’	Yellow	Large	Zhangzhou
19	‘D1’	Green	Large	Zhangzhou
20	‘JB2823’	Purple	Large	Zhangzhou
21	‘JB2975’	Yellow	Small	Zhangzhou
22	‘JB3037’	Green	Small	Zhangzhou
23	‘JB3159’	Purple	Medium	Zhangzhou
24	‘JB3177’	Purple	Small	Zhangzhou
25	‘JB3685’	Purple	Large	Zhangzhou
26	‘JB3697’	Yellow	Small	Zhangzhou
27	‘JB3725’	White	Large	Zhangzhou
28	‘JB3731’	Purple	Large	Zhangzhou
29	‘JB3859’	Purple	Large	Zhangzhou
30	‘JB3891’	Purple	Large	Zhangzhou
31	‘JB3896’	Purple	Large	Zhangzhou
32	‘JBRM’	White	Large	Zhangzhou
33	‘JB5123’	Purple	Large	Zhangzhou
34	‘JB5151’	Purple	Medium	Zhangzhou
35	‘JB5182’	Purple	Medium	Zhangzhou
36	‘JB5184’	Red	Small	Zhangzhou
37	‘JB5206’	Yellow	Large	Zhangzhou
38	‘JB5211’	Yellow	Medium	Zhangzhou
39	‘JB5215’	Red	Large	Zhangzhou
40	‘JB5235’	Purple	Medium	Zhangzhou
41	‘JB5263’	Red	Medium	Zhangzhou
42	‘JB5321’	Yellow	Large	Zhangzhou
43	‘JB5342’	Purple	Small	Zhangzhou
44	‘JB5354’	Purple	Large	Zhangzhou
45	‘JB5393’	Green	Medium	Zhangzhou
46	‘JB5402’	Red	Medium	Zhangzhou
47	‘JB5464’	Red	Medium	Zhangzhou

48	‘JB5467’	Purple	Small	Zhangzhou
49	‘JB5469’	Purple	Small	Zhangzhou
50	‘JB5484’	Purple	Medium	Zhangzhou
51	‘JB5541’	Purple	Small	Zhangzhou
52	‘JB5618’	Red	Medium	Zhangzhou
53	‘I-Hsin17 Venus’	Yellow	Small	Taiwan
