

Table S1 The information of 106 clones in *P. crassifolia*

Number of the clones	Provenances in Gansu Province, China
2	Ha Xi clonal seed orchard
3	Ha Xi clonal seed orchard
4	Ha Xi clonal seed orchard
5	Ha Xi clonal seed orchard
6	Ha Xi clonal seed orchard
7	Ha Xi clonal seed orchard
9	Ha Xi clonal seed orchard
10	Ha Xi clonal seed orchard
11	Ha Xi clonal seed orchard
12	Ha Xi clonal seed orchard
14	Gu Cheng clonal seed orchard
15	Gu Cheng clonal seed orchard
17	Gu Cheng clonal seed orchard
18	Gu Cheng clonal seed orchard
19	Gu Cheng clonal seed orchard
20	Gu Cheng clonal seed orchard
21	Gu Cheng clonal seed orchard
22	Gu Cheng clonal seed orchard
23	Da Huangshan clonal seed orchard
25	Da Huangshan clonal seed orchard
26	Da Huangshan clonal seed orchard
27	Da Huangshan clonal seed orchard
28	Da Huangshan clonal seed orchard
30	Da Hekou clonal seed orchard
31	Da Hekou clonal seed orchard
32	Qi Lian clonal seed orchard
33	Qi Lian clonal seed orchard
34	Qi Lian clonal seed orchard
35	Qi Lian clonal seed orchard
36	Qi Lian clonal seed orchard
39	Lian Cheng clonal seed orchard
42	Lian Cheng clonal seed orchard
45	Lian Cheng clonal seed orchard
48	Lian Cheng clonal seed orchard
49	Lian Cheng clonal seed orchard
50	Lian Cheng clonal seed orchard
51	Lian Cheng clonal seed orchard
52	Lian Cheng clonal seed orchard
54	Lian Cheng clonal seed orchard
55	Lian Cheng clonal seed orchard
56	Lian Cheng clonal seed orchard
57	Lian Cheng clonal seed orchard

60	Lian Cheng clonal seed orchard
61	Lian Cheng clonal seed orchard
62	Lian Cheng clonal seed orchard
64	Lian Cheng clonal seed orchard
66	Long Changhe clonal seed orchard
67	Long Changhe clonal seed orchard
68	Long Changhe clonal seed orchard
69	Long Changhe clonal seed orchard
70	Xi Yinghe clonal seed orchard
71	Xi Yinghe clonal seed orchard
72	Xi Yinghe clonal seed orchard
73	Xi Yinghe clonal seed orchard
75	Long Changhe clonal seed orchard
76	Da Hekou clonal seed orchard
77	Da Huangshan clonal seed orchard
79	Da Huangshan clonal seed orchard
80	Da Huangshan clonal seed orchard
82	Da Huangshan clonal seed orchard
83	Da Huangshan clonal seed orchard
85	Xi Shui clonal seed orchard
87	Xi Shui clonal seed orchard
88	Xi Shui clonal seed orchard
89	Dong Dashan clonal seed orchard
90	Dong Dashan clonal seed orchard
91	Dong Dashan clonal seed orchard
92	Dong Dashan clonal seed orchard
93	Dong Dashan clonal seed orchard
94	Dong Dashan clonal seed orchard
95	Dong Dashan clonal seed orchard
96	Dong Dashan clonal seed orchard
97	Dong Dashan clonal seed orchard
98	Dong Dashan clonal seed orchard
101	Xi Shui clonal seed orchard
103	Xi Shui clonal seed orchard
105	Da Hekou clonal seed orchard
106	Da Hekou clonal seed orchard
107	Xi Shui clonal seed orchard
108	Xi Shui clonal seed orchard
109	Da Hekou clonal seed orchard
111	Da Hekou clonal seed orchard
116	Xi Shui clonal seed orchard
118	Xi Shui clonal seed orchard
123	Xi Shui clonal seed orchard
124	Da Hekou clonal seed orchard

125	Da Hekou clonal seed orchard
126	Da Hekou clonal seed orchard
128	Gu Cheng clonal seed orchard
130	Gu Cheng clonal seed orchard
132	Xi Shui clonal seed orchard
133	Xi Shui clonal seed orchard
135	Xi Shui clonal seed orchard
138	Xi Shui clonal seed orchard
140	Xi Shui clonal seed orchard
142	Xi Shui clonal seed orchard
145	Xi Shui clonal seed orchard
146	Xi Shui clonal seed orchard
148	Xi Shui clonal seed orchard
150	Xi Shui clonal seed orchard
152	Xi Shui clonal seed orchard
153	Long Changhe clonal seed orchard
154	Long Changhe clonal seed orchard
155	Long Changhe clonal seed orchard
156	Long Changhe clonal seed orchard
158	Long Changhe clonal seed orchard
161	Xi Shui clonal seed orchard
164	Xi Shui clonal seed orchard
