

**Appendix D** Proportional membership of 288 potato germplasms to groups as determined by model based analysis using STRUCTURE.

Germplasms were assigned to a group based on membership probability higher than 0.60.

ID	Name	Source	Group1	Group2	Group3	Group4	Group5	Group6	Group7	Group8	Group
66	B24	Foreign country (except China)	0.8200	0.0081	0.0000	0.0003	0.1701	0.0009	0.0000	0.0006	1
82	Atlantic	America	0.9268	0.0410	0.0004	0.0130	0.0010	0.0096	0.0010	0.0071	1
90	UK12	England	0.7143	0.0725	0.0036	0.0034	0.1879	0.0046	0.0056	0.0081	1
54	Isreal.1	Isreal	0.9388	0.0011	0.0001	0.0516	0.0073	0.0009	0.0000	0.0003	1
55	CIP09-1	CIP	0.8907	0.0004	0.0000	0.0010	0.1059	0.0010	0.0000	0.0010	1
50	CIP09-4	CIP	0.9854	0.0009	0.0010	0.0003	0.0029	0.0079	0.0010	0.0008	1
37	D10	CIP	0.8389	0.0009	0.0014	0.0038	0.1387	0.0110	0.0041	0.0013	1
42	D21	CIP	0.8802	0.0011	0.0000	0.0981	0.0035	0.0002	0.0000	0.0169	1
38	D4	CIP	0.9363	0.0010	0.0000	0.0590	0.0007	0.0009	0.0006	0.0015	1
40	D5	CIP	0.9732	0.0018	0.0001	0.0121	0.0010	0.0009	0.0094	0.0015	1
39	D7	CIP	0.9769	0.0129	0.0005	0.0011	0.0066	0.0007	0.0005	0.0007	1
79	D8	CIP	0.8897	0.0006	0.0000	0.1067	0.0011	0.0008	0.0002	0.0009	1
41	D9	CIP	0.6148	0.0010	0.0000	0.1870	0.1965	0.0005	0.0000	0.0001	1
22	E11	CIP	0.8994	0.0011	0.0164	0.0002	0.0242	0.0005	0.0012	0.0569	1
3	E14	CIP	0.9274	0.0005	0.0005	0.0002	0.0010	0.0007	0.0082	0.0614	1
2	E19	CIP	0.7115	0.0005	0.0371	0.0003	0.1710	0.0016	0.0008	0.0773	1
4	E20	CIP	0.8574	0.0006	0.0041	0.1048	0.0056	0.0014	0.0021	0.0239	1
13	E38	CIP	0.8661	0.0024	0.0033	0.0001	0.0969	0.0089	0.0023	0.0201	1
21	E5	CIP	0.9949	0.0029	0.0001	0.0001	0.0010	0.0008	0.0000	0.0003	1
16	E50	CIP	0.9485	0.0006	0.0009	0.0004	0.0020	0.0024	0.0035	0.0418	1
10	E76	CIP	0.8089	0.0006	0.0020	0.0007	0.0795	0.0459	0.0003	0.0621	1
12	E99	CIP	0.8696	0.0021	0.0086	0.0043	0.0675	0.0283	0.0056	0.0140	1
27	F12	CIP	0.7084	0.0034	0.0006	0.0009	0.2510	0.0121	0.0009	0.0227	1
26	F14	CIP	0.9937	0.0005	0.0004	0.0004	0.0019	0.0006	0.0000	0.0025	1
24	F17	CIP	0.8820	0.0211	0.0081	0.0016	0.0273	0.0014	0.0041	0.0544	1

29	F18	CIP	0.8808	0.0013	0.0000	0.0011	0.1124	0.0018	0.0010	0.0016	1
28	F2	CIP	0.7511	0.0004	0.0504	0.0023	0.1093	0.0004	0.0035	0.0828	1
30	F20	CIP	0.9881	0.0004	0.0006	0.0000	0.0010	0.0009	0.0009	0.0081	1
25	F24	CIP	0.8881	0.0011	0.0001	0.1039	0.0030	0.0006	0.0001	0.0030	1
23	F4	CIP	0.9398	0.0304	0.0091	0.0052	0.0037	0.0019	0.0016	0.0083	1
86	R1R3	CIP	0.8175	0.0014	0.0011	0.0004	0.1070	0.0709	0.0011	0.0006	1
57	T1	CIP	0.9242	0.0006	0.0000	0.0719	0.0018	0.0011	0.0000	0.0004	1
83	Zhongda 1	Chinese Academy of Sciences	0.9016	0.0016	0.0003	0.0000	0.0373	0.0560	0.0010	0.0023	1
80	Zhongshu 9	Chinese Academy of Sciences	0.7514	0.0005	0.0008	0.0016	0.2093	0.0319	0.0009	0.0036	1
96	Longshu 6	Gansu Province in China	0.7733	0.0812	0.0035	0.0010	0.1270	0.0022	0.0095	0.0022	1
95	KB	Hebei Province in China	0.9913	0.0014	0.0001	0.0022	0.0020	0.0011	0.0012	0.0006	1
56	Yun 205	Yunnan Province in China	0.6256	0.0008	0.0004	0.0024	0.3475	0.0006	0.0005	0.0223	1
59	Qingshu 6	Qinghai Province in China	0.8749	0.1178	0.0000	0.0013	0.0015	0.0023	0.0009	0.0014	1
36	B6	Sichuan Province in China	0.9581	0.0208	0.0000	0.0005	0.0163	0.0003	0.0000	0.0041	1
65	Kexin 4 × Aula	Northeast of China	0.8098	0.0011	0.0000	0.0041	0.1840	0.0006	0.0000	0.0002	1
88	Weishu 1	Keshan .Heilongjiang Province in China	0.9924	0.0013	0.0000	0.0010	0.0010	0.0026	0.0010	0.0007	1
60	AKC	Keshan .Heilongjiang Province in China	0.9880	0.0002	0.0011	0.0037	0.0032	0.0010	0.0010	0.0016	1
91	426	Keshan .Heilongjiang Province in China	0.9739	0.0013	0.0000	0.0018	0.0056	0.0163	0.0004	0.0009	1
62	Shancheng	Keshan .Heilongjiang Province in China	0.9595	0.0103	0.0002	0.0013	0.0233	0.0011	0.0010	0.0034	1
64	Chenggong	Keshan .Heilongjiang Province in China	0.9267	0.0300	0.0001	0.0003	0.0006	0.0230	0.0007	0.0185	1
61	Kexin 3	Keshan .Heilongjiang Province in China	0.9182	0.0004	0.0001	0.0738	0.0049	0.0014	0.0001	0.0011	1
78	Yan S (3)	Keshan .Heilongjiang Province in China	0.8490	0.0008	0.0000	0.0296	0.1054	0.0003	0.0004	0.0145	1
33	B16	unknown	0.8625	0.0566	0.0005	0.0002	0.0764	0.0017	0.0005	0.0015	1
67	B10	unknown	0.8545	0.0025	0.0004	0.1027	0.0174	0.0017	0.0006	0.0201	1
34	B1	unknown	0.8461	0.0302	0.0009	0.0000	0.1163	0.0017	0.0011	0.0036	1
32	B19	unknown	0.8237	0.0016	0.0005	0.1411	0.0093	0.0008	0.0008	0.0223	1
35	B2	unknown	0.7389	0.0007	0.0006	0.0010	0.2511	0.0015	0.0012	0.0049	1
43	D2	CIP	0.5764	0.0001	0.0000	0.4223	0.0011	0.0000	0.0000	0.0000	mixed

46	A1	CIP	0.5718	0.0005	0.0009	0.0003	0.4069	0.0023	0.0004	0.0171	mixed
31	D1	CIP	0.5296	0.0004	0.0000	0.4692	0.0008	0.0001	0.0000	0.0000	mixed
6	E94	CIP	0.5244	0.0006	0.0089	0.0094	0.4491	0.0024	0.0010	0.0043	mixed
20	E73	CIP	0.5201	0.0004	0.0011	0.0003	0.4725	0.0009	0.0029	0.0019	mixed
14	E42	CIP	0.5153	0.0004	0.0015	0.0009	0.4759	0.0009	0.0011	0.0040	mixed
8	E32	CIP	0.4724	0.0004	0.0159	0.0729	0.2917	0.0023	0.1145	0.0300	mixed
5	E30	CIP	0.4612	0.0008	0.0124	0.0293	0.4568	0.0009	0.0020	0.0368	mixed
94	2	Foreign country (except China)	0.5478	0.0005	0.0016	0.0000	0.2618	0.0504	0.0005	0.1373	mixed
92	1	Foreign country (except China)	0.5378	0.0010	0.0013	0.0010	0.3342	0.0023	0.0004	0.1221	mixed
89	Huayun	Yunnan Province in China	0.5674	0.0005	0.0024	0.0132	0.3118	0.0349	0.0010	0.0689	mixed
126	Zi	Hebei Province in China	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2
130	ACD338	Keshan .Heilongjiang Province in China	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2
226	ACD342	Keshan .Heilongjiang Province in China	0.0000	0.6753	0.0305	0.0000	0.0000	0.0000	0.2931	0.0011	2
241	ACD(5)	Keshan .Heilongjiang Province in China	0.0001	0.6818	0.0005	0.0000	0.0000	0.0001	0.3171	0.0004	2
224	cy- I -16	CIP	0.0002	0.0090	0.8181	0.0012	0.0005	0.0011	0.0889	0.0809	3
258	cy- I -17	CIP	0.0005	0.0010	0.9380	0.0011	0.0014	0.0009	0.0006	0.0565	3
201	cy- I -24	CIP	0.0011	0.0255	0.9596	0.0022	0.0010	0.0045	0.0040	0.0020	3
249	cy- I -30	CIP	0.0000	0.0005	0.9982	0.0003	0.0000	0.0004	0.0003	0.0004	3
265	cy- I -5	CIP	0.0022	0.0004	0.9725	0.0115	0.0075	0.0007	0.0009	0.0042	3
237	cy- I -7	CIP	0.0011	0.0014	0.8085	0.0002	0.0015	0.0014	0.0869	0.0990	3
202	cy- II -17	CIP	0.0001	0.0003	0.9975	0.0003	0.0000	0.0005	0.0009	0.0005	3
245	cy- II -19	CIP	0.0030	0.0354	0.7290	0.1200	0.1070	0.0014	0.0022	0.0021	3
206	cy- II -23	CIP	0.0000	0.0003	0.9990	0.0004	0.0000	0.0001	0.0000	0.0003	3
208	cy- II -25	CIP	0.0010	0.0010	0.9930	0.0011	0.0000	0.0010	0.0019	0.0010	3
227	cy- II -29	CIP	0.0006	0.0011	0.7683	0.0010	0.0043	0.0016	0.1168	0.1064	3
205	cy- II -7	CIP	0.0004	0.0016	0.8352	0.0000	0.0003	0.0005	0.0636	0.0985	3
221	cy-III-?	CIP	0.0001	0.0314	0.8392	0.0006	0.0002	0.0011	0.0525	0.0748	3
281	cy-III-1	CIP	0.0001	0.0004	0.9985	0.0000	0.0000	0.0001	0.0006	0.0003	3

209	cy-III-14	CIP	0.0015	0.0003	0.9959	0.0005	0.0015	0.0001	0.0000	0.0003	3
199	cy-III-19	CIP	0.0026	0.0015	0.9491	0.0386	0.0006	0.0016	0.0021	0.0037	3
228	cy-III-2	CIP	0.0011	0.0045	0.8400	0.0002	0.0010	0.0020	0.0124	0.1387	3
200	cy-III-28	CIP	0.0007	0.0007	0.7149	0.0960	0.0009	0.0017	0.1092	0.0757	3
197	Dd- I -11	CIP	0.0008	0.0026	0.7224	0.2657	0.0006	0.0009	0.0018	0.0053	3
212	Dd- I -16	CIP	0.0004	0.0004	0.6734	0.0001	0.0005	0.0009	0.2388	0.0855	3
246	Dd- I -19	CIP	0.0010	0.0013	0.8475	0.0003	0.0072	0.0045	0.0125	0.1257	3
204	Dd- I -20	CIP	0.0009	0.0009	0.7592	0.0000	0.0009	0.0024	0.1254	0.1105	3
256	Dd- II -17	CIP	0.0002	0.0497	0.8723	0.0010	0.0007	0.0013	0.0075	0.0672	3
203	Dd- II -6	CIP	0.0004	0.0032	0.8659	0.0002	0.0009	0.0015	0.0021	0.1257	3
217	Dd-III-10	CIP	0.0010	0.0001	0.8942	0.0029	0.0997	0.0008	0.0005	0.0009	3
207	Dd-III-12	CIP	0.0003	0.0005	0.8689	0.0000	0.0006	0.0013	0.0026	0.1259	3
198	Dd-III-2	CIP	0.0040	0.0005	0.8127	0.0151	0.0033	0.0071	0.0525	0.1048	3
261	DM	CIP	0.0011	0.0011	0.7327	0.1561	0.0234	0.0016	0.0591	0.0249	3
215	DT-IV-3	CIP	0.0001	0.0003	0.9636	0.0003	0.0001	0.0003	0.0003	0.0352	3
272	Kw-21-2	CIP	0.0022	0.0041	0.6843	0.0016	0.0030	0.0016	0.2192	0.0839	3
264	kw26	CIP	0.0009	0.0018	0.7143	0.0011	0.0015	0.0026	0.1888	0.0890	3
283	kw55	CIP	0.0011	0.0012	0.7305	0.0006	0.0021	0.0035	0.1611	0.0998	3
287	Niutabian	Qinghai Province in China	0.0003	0.0011	0.8724	0.0003	0.0000	0.0006	0.0069	0.1185	3
282	CIP09-30	CIP	0.0011	0.0381	0.5757	0.1263	0.0046	0.0013	0.1159	0.1370	mixed
102	PHU1. 22	CIP	0.0009	0.0039	0.5540	0.1411	0.0303	0.2226	0.0000	0.0473	mixed
117	kw15	CIP	0.0009	0.0019	0.5155	0.0006	0.0612	0.2872	0.0000	0.1328	mixed
167	PHU035	CIP	0.0004	0.0031	0.5130	0.0059	0.1539	0.2235	0.0001	0.1001	mixed
266	RH	CIP	0.0302	0.0024	0.4882	0.0179	0.1063	0.0019	0.3435	0.0096	mixed
185	cy-III-5	CIP	0.0004	0.0914	0.4866	0.0445	0.2060	0.1431	0.0002	0.0278	mixed
107	kw11	CIP	0.0002	0.0028	0.3881	0.0653	0.1632	0.3430	0.0009	0.0366	mixed
145	S.ac	Northeast of China	0.0004	0.0006	0.0015	0.9946	0.0011	0.0011	0.0001	0.0005	4
270	S.mic	Northeast of China	0.0011	0.0670	0.1471	0.6062	0.0011	0.0016	0.1722	0.0036	4

260	E107	CIP	0.0001	0.0005	0.3744	0.6025	0.0005	0.0007	0.0026	0.0186	4
112	P2	Foreign country (except China)	0.0015	0.0160	0.0001	0.5945	0.0000	0.3825	0.0023	0.0031	mixed
1	E104	CIP	0.0013	0.0003	0.0001	0.5828	0.4147	0.0001	0.0000	0.0008	mixed
63	S.ch	Northeast of China	0.2128	0.0019	0.0000	0.5427	0.2409	0.0006	0.0003	0.0009	mixed
255	Qingshu 9	Qinghai Province in China	0.1082	0.0063	0.2084	0.3167	0.0786	0.0044	0.2751	0.0022	mixed
68	CIP09-10	CIP	0.0001	0.0006	0.0637	0.0025	0.9325	0.0003	0.0000	0.0004	5
81	CIP09-12	CIP	0.0032	0.0009	0.0139	0.0014	0.9680	0.0019	0.0002	0.0105	5
70	CIP09-15	CIP	0.0320	0.0030	0.0009	0.0017	0.9600	0.0010	0.0004	0.0010	5
69	CIP09-16	CIP	0.0556	0.0010	0.0001	0.0494	0.8931	0.0004	0.0000	0.0004	5
48	CIP09-18	CIP	0.0204	0.0700	0.0006	0.0529	0.8546	0.0008	0.0001	0.0006	5
72	CIP09-26	CIP	0.0005	0.0004	0.0007	0.0013	0.9970	0.0000	0.0000	0.0001	5
53	CIP09-27	CIP	0.0005	0.0004	0.0001	0.0000	0.9990	0.0000	0.0000	0.0000	5
73	CIP09-32	CIP	0.0030	0.0014	0.0026	0.0426	0.9364	0.0022	0.0009	0.0109	5
52	CIP09-6	CIP	0.0016	0.0000	0.0000	0.0000	0.9984	0.0000	0.0000	0.0000	5
51	CIP09-7	CIP	0.0025	0.0005	0.0001	0.0826	0.9134	0.0003	0.0001	0.0005	5
49	CIP09-8	CIP	0.0343	0.0004	0.0002	0.0020	0.9621	0.0001	0.0001	0.0008	5
9	E13	CIP	0.0019	0.0006	0.0010	0.0002	0.9905	0.0007	0.0009	0.0041	5
15	E31	CIP	0.0346	0.0015	0.0149	0.0005	0.9048	0.0010	0.0116	0.0311	5
19	E33	CIP	0.0369	0.0001	0.0025	0.0002	0.9555	0.0009	0.0018	0.0021	5
18	E90	CIP	0.0124	0.0004	0.0003	0.0010	0.9839	0.0003	0.0000	0.0019	5
87	IVP101	CIP	0.0303	0.0036	0.0441	0.0037	0.8586	0.0020	0.0009	0.0567	5
76	KW24	CIP	0.2133	0.0010	0.0016	0.0007	0.7791	0.0012	0.0010	0.0020	5
75	KW3	CIP	0.1849	0.0024	0.0021	0.0106	0.7869	0.0069	0.0029	0.0034	5
77	KW39	CIP	0.0009	0.0004	0.0000	0.0000	0.9964	0.0011	0.0000	0.0013	5
74	KW41	CIP	0.0004	0.0004	0.0004	0.0000	0.9984	0.0001	0.0000	0.0004	5
58	UK2	England	0.2907	0.0009	0.0000	0.0002	0.7061	0.0011	0.0001	0.0009	5
93	UK3	England	0.3521	0.0012	0.0010	0.0005	0.6377	0.0034	0.0026	0.0015	5
45	A4	CIP	0.3498	0.0005	0.0003	0.0003	0.5746	0.0011	0.0006	0.0729	mixed

44	A12	CIP	0.4217	0.0025	0.0000	0.0020	0.5731	0.0001	0.0000	0.0005	mixed
84	S16	CIP	0.3656	0.0009	0.0000	0.0002	0.5657	0.0011	0.0004	0.0662	mixed
71	CIP09-24	CIP	0.4701	0.0026	0.0000	0.0005	0.5249	0.0010	0.0000	0.0009	mixed
11	E49	CIP	0.1847	0.0004	0.0044	0.0003	0.5197	0.0008	0.0688	0.2210	mixed
17	E62	CIP	0.4161	0.0030	0.0012	0.0215	0.5102	0.0009	0.0005	0.0465	mixed
47	A7	CIP	0.4273	0.0006	0.0005	0.0004	0.4904	0.0009	0.0021	0.0779	mixed
7	E60	CIP	0.2998	0.0027	0.2376	0.0131	0.3670	0.0025	0.0064	0.0708	mixed
85	393077.54	Sichuan Province in China	0.4397	0.0210	0.0005	0.0076	0.4540	0.0174	0.0004	0.0594	mixed
164	Ps	Foreign country (except China)	0.0015	0.0284	0.0185	0.0013	0.0230	0.9004	0.0244	0.0026	6
186	3	Foreign country (except China)	0.0020	0.0006	0.0913	0.0007	0.0015	0.6252	0.0012	0.2774	6
156	Maiken 1	America	0.0011	0.0114	0.0010	0.0014	0.0009	0.9371	0.0023	0.0449	6
161	Dixirui	America	0.0040	0.0597	0.0009	0.0006	0.0016	0.9164	0.0011	0.0156	6
157	Isreal 2	Isreal	0.0017	0.0039	0.0009	0.0002	0.0009	0.9591	0.0010	0.0322	6
181	Isreal 5	Isreal	0.0686	0.0034	0.0000	0.0010	0.0021	0.9221	0.0017	0.0010	6
150	Isreal 3	Isreal	0.0015	0.0856	0.0054	0.0055	0.0086	0.8851	0.0021	0.0061	6
127	Xiabodi	Canada	0.0053	0.0069	0.0005	0.0984	0.0040	0.8830	0.0006	0.0014	6
100	UK7	England	0.0011	0.0829	0.0238	0.0039	0.0009	0.6850	0.1086	0.0939	6
172	Feiwuruita	Netherlands	0.0011	0.0016	0.0036	0.0002	0.0010	0.8227	0.1480	0.0217	6
125	NZY	New Zealand	0.0004	0.0264	0.0043	0.0009	0.0002	0.6993	0.2414	0.0271	6
166	CIP09-28	CIP	0.0006	0.0051	0.1188	0.0002	0.0014	0.8144	0.0010	0.0584	6
154	D15	CIP	0.0009	0.0169	0.0728	0.0020	0.0144	0.8365	0.0004	0.0563	6
144	D23	CIP	0.0465	0.0051	0.0000	0.0014	0.0004	0.8022	0.1385	0.0059	6
177	D6	CIP	0.0010	0.0178	0.0095	0.0005	0.0011	0.9651	0.0019	0.0031	6
176	Peru08-2	CIP	0.0026	0.1070	0.0036	0.0010	0.0154	0.8161	0.0021	0.0522	6
151	peru08-3	CIP	0.0350	0.0012	0.0000	0.0010	0.0007	0.9589	0.0014	0.0018	6
182	R3R4	CIP	0.0024	0.0676	0.0012	0.0004	0.0009	0.9227	0.0010	0.0039	6
165	S1	CIP	0.0010	0.0143	0.0295	0.0041	0.0010	0.7838	0.0735	0.0928	6
131	S115	CIP	0.0019	0.0035	0.0698	0.0176	0.0596	0.6914	0.0020	0.1542	6

129	S5	CIP	0.0014	0.1888	0.0003	0.0014	0.0003	0.8049	0.0020	0.0011	6
153	S8	CIP	0.0051	0.0008	0.0201	0.0004	0.0450	0.8395	0.0013	0.0878	6
143	T3	CIP	0.0014	0.0065	0.0036	0.0011	0.1537	0.8138	0.0006	0.0192	6
174	T5	CIP	0.0042	0.0716	0.0017	0.0166	0.0014	0.8365	0.0634	0.0045	6
175	w1	CIP	0.0189	0.0969	0.0006	0.0013	0.0038	0.8770	0.0008	0.0009	6
123	w10	CIP	0.0009	0.0021	0.0775	0.0022	0.0009	0.7964	0.0246	0.0953	6
119	w13	CIP	0.0457	0.0191	0.0057	0.0232	0.0019	0.8940	0.0060	0.0042	6
122	w28	CIP	0.0006	0.0439	0.0009	0.0025	0.0009	0.9234	0.0007	0.0271	6
121	w3	CIP	0.0061	0.0789	0.0012	0.0014	0.0036	0.9013	0.0010	0.0065	6
120	w31	CIP	0.0035	0.0079	0.0041	0.0799	0.0025	0.8690	0.0095	0.0236	6
147	w34	CIP	0.0009	0.0030	0.0389	0.0006	0.1942	0.6670	0.0009	0.0944	6
124	w4	CIP	0.0008	0.0138	0.2716	0.0004	0.0016	0.6127	0.0004	0.0988	6
118	w5	CIP	0.0009	0.0045	0.0015	0.0004	0.0570	0.8962	0.0006	0.0389	6
188	R11	Chinese Academy of Sciences	0.0008	0.0120	0.0010	0.0003	0.0000	0.8906	0.0868	0.0086	6
146	Zhongshu 5	Chinese Academy of Sciences	0.0009	0.0564	0.0116	0.0002	0.0011	0.8414	0.0675	0.0209	6
155	393882.44	Sichuan Province in China	0.0010	0.0446	0.1142	0.0029	0.0096	0.8151	0.0009	0.0117	6
134	Minshu 1	Fujian Province in China	0.0060	0.1331	0.0018	0.0325	0.0006	0.8087	0.0149	0.0024	6
163	Yun S501	Yunnan Province in China	0.0037	0.0319	0.0075	0.0319	0.0010	0.8918	0.0019	0.0304	6
179	Ningshu 1	Ningxia Province in China	0.0057	0.0139	0.0026	0.0004	0.0245	0.7899	0.1484	0.0145	6
109	Ningshu 12	Ningxia Province in China	0.0058	0.1398	0.0003	0.0076	0.0000	0.7546	0.0911	0.0009	6
114	e5-1	Hebei Province in China	0.0016	0.0009	0.0009	0.0006	0.0024	0.9621	0.0004	0.0311	6
113	e5-2	Hebei Province in China	0.0070	0.0009	0.0055	0.0021	0.0106	0.9499	0.0009	0.0231	6
111	Jizhangshu 8	Hebei Province in China	0.0005	0.0213	0.0106	0.0025	0.0010	0.9475	0.0033	0.0134	6
171	Jizhangshu 3	Hebei Province in China	0.0006	0.0008	0.0011	0.0180	0.0003	0.9161	0.0093	0.0539	6
132	Ziyun	Hebei Province in China	0.0009	0.0010	0.0484	0.0000	0.0096	0.6771	0.0002	0.2628	6
138	Qingshu 168	Qinghai Province in China	0.0002	0.0048	0.0005	0.0001	0.0000	0.9916	0.0016	0.0011	6
105	Qingshu 8	Qinghai Province in China	0.0005	0.0014	0.0008	0.0081	0.0004	0.9875	0.0005	0.0009	6
141	Shenzhong 222	Qinghai Province in China	0.0012	0.0124	0.0009	0.0686	0.0006	0.8925	0.0075	0.0163	6

98	Qingshu 3	Qinghai Province in China	0.0002	0.0456	0.0021	0.0009	0.0000	0.8493	0.0547	0.0471	6
108	Xiazhai 65	Qinghai Province in China	0.0286	0.0461	0.0039	0.0234	0.0059	0.8387	0.0020	0.0515	6
158	Qingying 5	Qinghai Province in China	0.0025	0.0221	0.0035	0.0030	0.0509	0.7376	0.1399	0.0405	6
139	Qingshu 2	Qinghai Province in China	0.1004	0.1701	0.0004	0.0012	0.0006	0.7178	0.0009	0.0086	6
169	Gaoyuan 4	Qinghai Province in China	0.0011	0.1886	0.0020	0.0055	0.0212	0.7121	0.0019	0.0676	6
190	DT-033	Keshan .Heilongjiang Province in China	0.0011	0.0004	0.0000	0.0003	0.0000	0.9912	0.0010	0.0060	6
162	Jamsay	Keshan .Heilongjiang Province in China	0.0034	0.0015	0.0030	0.0170	0.0021	0.9330	0.0031	0.0369	6
137	Kende	Keshan .Heilongjiang Province in China	0.0346	0.0191	0.0005	0.0009	0.0021	0.9263	0.0004	0.0160	6
152	926	Keshan .Heilongjiang Province in China	0.0358	0.0018	0.0031	0.0009	0.0160	0.9148	0.0141	0.0135	6
168	Delba	Keshan .Heilongjiang Province in China	0.0050	0.0016	0.0130	0.0015	0.0010	0.9059	0.0237	0.0483	6
191	J8028	Keshan .Heilongjiang Province in China	0.0049	0.1159	0.0000	0.0066	0.0004	0.8668	0.0010	0.0044	6
142	Kexin 4	Keshan .Heilongjiang Province in China	0.0078	0.0074	0.0001	0.0005	0.0005	0.8652	0.0944	0.0241	6
99	B <sub>0</sub> II	Keshan .Heilongjiang Province in China	0.0064	0.0017	0.0005	0.0004	0.0010	0.8433	0.1384	0.0084	6
106	Wubo	Keshan .Heilongjiang Province in China	0.0011	0.1495	0.0017	0.0002	0.0009	0.8376	0.0026	0.0062	6
133	2340	Keshan .Heilongjiang Province in China	0.0494	0.0011	0.0009	0.0445	0.0369	0.7395	0.0014	0.1263	6
159	8098-115	Keshan .Heilongjiang Province in China	0.0022	0.0176	0.1181	0.0020	0.0515	0.7130	0.0035	0.0920	6
148	Hu 5	Northeast of China	0.0011	0.0006	0.0001	0.0001	0.0004	0.9723	0.0006	0.0247	6
180	Hu9052-2	Northeast of China	0.0194	0.0013	0.0004	0.0033	0.0021	0.9705	0.0011	0.0020	6
136	H99-9	Northeast of China	0.0008	0.0013	0.0013	0.0004	0.0010	0.9558	0.0008	0.0389	6
189	Kexin 200373	Northeast of China	0.0087	0.0064	0.0009	0.0002	0.0010	0.9527	0.0014	0.0287	6
187	Kexin 6	Northeast of China	0.0014	0.0008	0.0004	0.0003	0.0000	0.9275	0.0674	0.0024	6
184	Kexin 21	Northeast of China	0.0013	0.1019	0.0008	0.0029	0.0008	0.7820	0.0770	0.0335	6
178	R14	unknown	0.0025	0.0004	0.0011	0.0006	0.0015	0.9891	0.0031	0.0016	6
183	IP84008.3	unknown	0.0360	0.0110	0.0370	0.0016	0.0200	0.8534	0.0042	0.0367	6
128	LT-1	unknown	0.0165	0.0011	0.0005	0.0103	0.0514	0.8057	0.0103	0.1042	6
97	Er-1	unknown	0.0059	0.0061	0.0017	0.0012	0.0007	0.6516	0.2505	0.0822	6
173	IP84008.4	unknown	0.1025	0.0032	0.0651	0.0034	0.0043	0.6096	0.0525	0.1595	6
140	JK3	CIP	0.0097	0.2375	0.0012	0.1151	0.1232	0.5088	0.0003	0.0041	mixed



170	kw33	CIP	0.0005	0.0012	0.2647	0.0007	0.1136	0.4745	0.0006	0.1441	mixed
149	kw45	CIP	0.0012	0.0377	0.1956	0.0010	0.1415	0.4676	0.0007	0.1546	mixed
115	kw44	CIP	0.0002	0.0024	0.2521	0.0005	0.2564	0.4262	0.0000	0.0622	mixed
116	kw35	CIP	0.0005	0.0023	0.3018	0.0002	0.1835	0.4154	0.0008	0.0955	mixed
103	Snanclor	Keshan .Heilongjiang Province in China	0.0009	0.1137	0.0245	0.1017	0.0007	0.5921	0.1426	0.0237	mixed
104	Tulongsjiji	Keshan .Heilongjiang Province in China	0.0012	0.1207	0.0049	0.2125	0.0010	0.4464	0.1806	0.0326	mixed
110	Russ2	Russia	0.0005	0.1301	0.0076	0.0607	0.0009	0.5100	0.1294	0.1607	mixed
160	LT-X	unknown	0.0003	0.1697	0.1922	0.0008	0.0001	0.5633	0.0146	0.0591	mixed
101	NE303	unknown	0.0264	0.0029	0.0010	0.3843	0.1266	0.4536	0.0024	0.0029	mixed
276	B27	Foreign country (except China)	0.0040	0.0014	0.0176	0.0106	0.0374	0.0454	0.8802	0.0034	7
193	Canada7(3)	Canada	0.0005	0.0108	0.0018	0.0948	0.0001	0.0066	0.8637	0.0218	7
274	Russ1	Russia	0.0038	0.0956	0.0057	0.0190	0.0039	0.0877	0.6455	0.1387	7
254	UK9	England	0.0003	0.0015	0.1636	0.0003	0.0000	0.0010	0.8137	0.0198	7
239	UK1	England	0.0275	0.0589	0.0031	0.0709	0.0043	0.0497	0.7750	0.0106	7
271	UK8	England	0.0014	0.0141	0.1068	0.0015	0.0011	0.1026	0.7658	0.0066	7
253	BF1-4	CIP	0.0011	0.0021	0.0164	0.0002	0.0010	0.0016	0.9739	0.0036	7
263	BF1-2	CIP	0.0002	0.0036	0.0478	0.0001	0.0005	0.0071	0.9265	0.0141	7
269	CIP10-1	CIP	0.0025	0.0030	0.0601	0.0013	0.0029	0.0163	0.8896	0.0244	7
277	JK5	CIP	0.0007	0.0259	0.0968	0.0002	0.0009	0.0065	0.8555	0.0135	7
268	S25	CIP	0.0004	0.0243	0.0109	0.1013	0.0000	0.0064	0.8510	0.0059	7
238	E22	CIP	0.0004	0.0004	0.1253	0.0010	0.0002	0.0013	0.8066	0.0649	7
211	JK9	CIP	0.0025	0.0682	0.0864	0.0010	0.0021	0.0044	0.7804	0.0550	7
196	D11	CIP	0.1327	0.0004	0.0155	0.0685	0.0019	0.0019	0.7752	0.0040	7
247	Zhongshu 4	Chinese Academy of Sciences	0.0010	0.0028	0.0011	0.0003	0.0010	0.0044	0.9882	0.0013	7
286	Zhong A92-5-84	Chinese Academy of Sciences	0.0002	0.0019	0.0842	0.0591	0.0006	0.0031	0.8340	0.0168	7
194	Qingying 5	Qinghai Province in China	0.0004	0.0004	0.0005	0.0174	0.0000	0.0005	0.9774	0.0035	7
280	175	Shaanxi Province in China	0.0000	0.0005	0.0005	0.0001	0.0000	0.0004	0.9982	0.0003	7
252	397077.16	Sichuan Province in China	0.0127	0.0008	0.0095	0.0620	0.0530	0.0069	0.8291	0.0260	7

233	Fuke 212	Fujian Province in China	0.0009	0.0425	0.0109	0.0016	0.0001	0.1491	0.7916	0.0032	7
257	Dadi	Keshan .Heilongjiang Province in China	0.0008	0.0011	0.0000	0.0001	0.0000	0.0011	0.9964	0.0005	7
213	DT02	Keshan .Heilongjiang Province in China	0.0003	0.0008	0.0019	0.0001	0.0000	0.0015	0.9934	0.0021	7
235	Eramosa	Keshan .Heilongjiang Province in China	0.0012	0.0010	0.0029	0.0005	0.0007	0.0011	0.9909	0.0016	7
259	FL1771	Keshan .Heilongjiang Province in China	0.0056	0.0004	0.0021	0.0015	0.0018	0.0014	0.9864	0.0009	7
214	ND860-2	Keshan .Heilongjiang Province in China	0.0016	0.0010	0.0001	0.0028	0.0000	0.0054	0.9611	0.0280	7
240	Dilong	Keshan .Heilongjiang Province in China	0.0010	0.0015	0.0059	0.0007	0.0000	0.0097	0.9560	0.0251	7
218	Normonana	Keshan .Heilongjiang Province in China	0.0020	0.0168	0.0010	0.0004	0.0005	0.0054	0.9548	0.0192	7
210	283	Keshan .Heilongjiang Province in China	0.0001	0.0016	0.0550	0.0004	0.0003	0.0011	0.9390	0.0025	7
230	Kaituozhe	Keshan .Heilongjiang Province in China	0.0009	0.0021	0.0007	0.0744	0.0000	0.0010	0.9197	0.0011	7
231	Kexin 7	Keshan .Heilongjiang Province in China	0.0001	0.0701	0.0030	0.0013	0.0000	0.0017	0.9194	0.0044	7
242	124	Keshan .Heilongjiang Province in China	0.0018	0.0058	0.0044	0.0674	0.0009	0.0108	0.9069	0.0022	7
251	Bo S	Keshan .Heilongjiang Province in China	0.0003	0.0041	0.0714	0.0016	0.0000	0.0009	0.9030	0.0188	7
222	Kangyibai	Keshan .Heilongjiang Province in China	0.0006	0.1122	0.0055	0.0024	0.0000	0.0015	0.8765	0.0014	7
273	Hongwenbai	Keshan .Heilongjiang Province in China	0.0003	0.0091	0.1431	0.0001	0.0000	0.0011	0.8403	0.0060	7
225	Bintje	Keshan .Heilongjiang Province in China	0.0081	0.0008	0.0004	0.0003	0.0001	0.1763	0.8136	0.0005	7
195	552	Keshan .Heilongjiang Province in China	0.0096	0.0006	0.1540	0.0094	0.0010	0.0139	0.7962	0.0153	7
278	AKC(FK697)	Keshan .Heilongjiang Province in China	0.0071	0.0014	0.0036	0.0006	0.0007	0.1168	0.7916	0.0780	7
216	Bontmont	Keshan .Heilongjiang Province in China	0.0557	0.0192	0.1613	0.0284	0.0082	0.0027	0.7228	0.0015	7
236	Ddba	Keshan .Heilongjiang Province in China	0.0030	0.0089	0.0675	0.0024	0.0024	0.1807	0.7201	0.0151	7
244	Diniela	Keshan .Heilongjiang Province in China	0.0014	0.0263	0.2186	0.0023	0.0011	0.0040	0.7086	0.0378	7
219	Hernes	Keshan .Heilongjiang Province in China	0.0576	0.0071	0.1147	0.1205	0.0017	0.0013	0.6952	0.0019	7
220	Gorant	Keshan .Heilongjiang Province in China	0.0002	0.0646	0.1989	0.0190	0.0002	0.0009	0.6851	0.0310	7
234	NS880705	Keshan .Heilongjiang Province in China	0.0009	0.0014	0.1970	0.0005	0.0019	0.0822	0.6487	0.0674	7
262	Dongnong 305	Northeast of China	0.0005	0.0016	0.0011	0.0003	0.0004	0.0016	0.9927	0.0018	7
285	Kexin6108-17	Northeast of China	0.0019	0.0005	0.0209	0.0056	0.0010	0.0027	0.9646	0.0027	7
223	115Hu 5	Northeast of China	0.0010	0.0163	0.0034	0.0010	0.0010	0.0656	0.9086	0.0031	7
250	Dongnong 303	Northeast of China	0.0005	0.0635	0.0029	0.0004	0.0008	0.0210	0.8973	0.0136	7

229	Kexin 16	Northeast of China	0.0056	0.0043	0.0010	0.0083	0.0049	0.0290	0.8754	0.0716	7
232	KexinPS10	Northeast of China	0.0009	0.0728	0.0427	0.0014	0.0010	0.0118	0.7991	0.0704	7
248	Baie 3	Northeast of China	0.0003	0.0014	0.2206	0.0003	0.0001	0.0058	0.7490	0.0226	7
279	Ningbo 0	Northeast of China	0.0054	0.0114	0.1156	0.0009	0.0065	0.1869	0.6038	0.0696	7
288	X	unknown	0.0024	0.0016	0.0952	0.0014	0.0006	0.0011	0.8958	0.0019	7
267	DR9	unknown	0.0040	0.0041	0.0084	0.2186	0.0124	0.0034	0.7426	0.0066	7
284	B7	unknown	0.0011	0.0269	0.0029	0.0807	0.0189	0.0009	0.7367	0.1319	7
243	Weilasi	Keshan .Heilongjiang Province in China	0.0009	0.0356	0.2758	0.0005	0.0012	0.0221	0.5802	0.0836	mixed
275	pepo416	Keshan .Heilongjiang Province in China	0.0897	0.0004	0.0200	0.0110	0.0034	0.3591	0.5149	0.0015	mixed
135	522	Keshan .Heilongjiang Province in China	0.0005	0.0005	0.1040	0.0011	0.0648	0.2800	0.0150	0.5340	mixed
192	720018	unknown	0.0009	0.0045	0.0965	0.0508	0.0291	0.2678	0.0210	0.5294	mixed