Table S1. Population structure group of accession based on Inferred ancestry values.

G. No.	Genotypes	Inferred ancestry			Structure group
		Q1	Q2	Q3	
RG1	IRG1	0.004	0.301	0.695	AD
RG2	DRR44	0.004	0.695	0.3	AD
RG3	IR18A2044	0.006	0.362	0.631	AD
RG4	IR17A2832	0.025	0.704	0.272	AD
RG5	IR18T1172	0.02	0.595	0.386	AD
RG6	BPT5204	0.01	0.964	0.026	SG2
RG7	IR15F1710	0.004	0.607	0.389	AD
RG8	IR18A1231	0.006	0.981	0.012	SG2
RG9	IR18A2011	0.028	0.887	0.085	SG2
RG10	IR17A3040	0.053	0.917	0.03	SG2
RG11	IR18T1340	0.003	0.993	0.003	SG2
RG12	IR17A3075	0.004	0.986	0.011	SG2
RG13	IR17A3101	0.005	0.991	0.004	SG2
RG14	IR18A1269	0.003	0.992	0.006	SG2
RG15	IR17A3046	0.015	0.975	0.01	SG2
RG16	IR17A3050	0.005	0.99	0.005	SG2
RG17	IR18A1126	0.002	0.994	0.003	SG2
RG18	IR18A2139	0.003	0.995	0.002	SG2
RG19	IR117677-31	0.015	0.978	0.006	SG2
RG20	IR18A1558	0.004	0.974	0.021	SG2
RG21	IR18L1171	0.003	0.995	0.003	SG2
RG22	IR18A1768	0.014	0.865	0.122	SG2
RG23	IR16F1021	0.008	0.988	0.003	SG2
RG24	IR17A3036	0.015	0.977	0.007	SG2
RG25	IR15F1754	0.114	0.867	0.019	SG2
RG26	IR17A2942	0.031	0.964	0.005	SG2
RG27	IR18A1876	0.007	0.985	0.008	SG2
RG28	IR18A1607	0.006	0.986	0.008	SG2
RG29	IR18A2066	0.006	0.975	0.019	SG2
RG30	IR18A1726	0.027	0.927	0.046	SG2
RG31	IR18A1440	0.023	0.969	0.008	SG2
RG32	IR18A1715	0.168	0.805	0.027	SG2
RG33	IRRI154	0.018	0.964	0.018	SG2
RG34	IR42	0.044	0.95	0.006	SG2
RG35	IR18A1051	0.024	0.915	0.061	SG2
RG36	IR17A2906	0.119	0.835	0.046	SG2
RG37	IR17A3038	0.096	0.837	0.068	SG2
RG38	IR17A3019	0.089	0.896	0.016	SG2
RG39	IR18A2022	0.165	0.634	0.2	AD

RG40	IR96321-315	0.035	0.697	0.267	AD
RG41	IR17A3093	0.118	0.171	0.711	AD
RG42	IR18A2134	0.275	0.627	0.098	AD
RG43	IR18A1058	0.382	0.545	0.073	AD
RG44	IR18A1145	0.604	0.198	0.197	AD
RG45	IR15T1330	0.257	0.45	0.292	AD
RG46	IR18A2041	0.287	0.265	0.448	AD
RG47	IR18A1989	0.178	0.012	0.811	SG3
RG48	IR18A1072	0.285	0.012	0.704	AD
RG49	IR18A1243	0.394	0.187	0.419	AD
RG50	IR17A2796	0.01	0.123	0.867	SG3
RG51	IR126952-29	0.016	0.024	0.96	SG3
RG52	IR17A3047	0.02	0.006	0.974	SG3
RG53	IR15F1907	0.004	0.003	0.993	SG3
RG54	IR17A2891	0.006	0.005	0.99	SG3
RG55	IR18A1451	0.004	0.004	0.992	SG3
RG56	IR17A3083	0.004	0.007	0.989	SG3
RG57	IR17A2839	0.008	0.004	0.988	SG3
RG58	IR17A3123	0.006	0.006	0.988	SG3
RG59	IR18A1474	0.004	0.003	0.993	SG3
RG60	IR18A1020	0.003	0.003	0.994	SG3
RG61	IR18A1190	0.004	0.005	0.991	SG3
RG62	IR18T1248	0.003	0.003	0.994	SG3
RG63	IR18T1135	0.005	0.021	0.974	SG3
RG64	IR18A1358	0.077	0.027	0.896	SG3
RG65	IR16F1243	0.004	0.006	0.991	SG3
RG66	IR18A1061	0.004	0.004	0.993	SG3
RG67	IR18A1135	0.005	0.003	0.992	SG3
RG68	IR18A1287	0.007	0.004	0.99	SG3
RG69	IR18A1482	0.012	0.048	0.94	SG3
RG70	IR18A1611	0.009	0.027	0.964	SG3
RG71	IR18A1383	0.008	0.048	0.944	SG3
RG72	IR17A2949	0.005	0.005	0.99	SG3
RG73	IR17A3012	0.006	0.011	0.983	SG3
RG74	IRRI148	0.008	0.005	0.987	SG3
RG75	IRRI156	0.007	0.036	0.957	SG3
RG76	IR18T1192	0.011	0.007	0.982	SG3
RG77	IR18A1197	0.013	0.004	0.983	SG3
RG78	IR18A1325	0.02	0.005	0.976	SG3
RG79	IRRI104	0.106	0.103	0.791	AD
RG80	IR18A1317	0.014	0.095	0.89	SG3
RG81	IR17A3105	0.007	0.004	0.989	SG3
RG82	IR17A3044	0.005	0.003	0.992	SG3

RG83	IR64	0.06	0.012	0.928	SG3
RG84	IR15F1869	0.012	0.007	0.981	SG3
RG85	IR15F1886	0.011	0.005	0.984	SG3
RG86	IR18A1281	0.019	0.009	0.972	SG3
RG87	IR18A1073	0.006	0.008	0.986	SG3
RG88	IR18A1156	0.004	0.006	0.991	SG3
RG89	IR16F1065	0.009	0.008	0.983	SG3
RG90	IR18A1967	0.441	0.009	0.549	AD
RG91	IR18A1329	0.945	0.006	0.049	SG1
RG92	IR17A3041	0.984	0.004	0.012	SG1
RG93	IR18A1650	0.983	0.01	0.007	SG1
RG94	IR17A2772	0.78	0.026	0.195	AD
RG95	IR17A3091	0.978	0.006	0.016	SG1
RG96	IR17A2801	0.959	0.005	0.036	SG1
RG97	IR17A2855	0.99	0.004	0.006	SG1
RG98	IR18A1027	0.994	0.003	0.003	SG1
RG99	IR18A2038	0.99	0.003	0.007	SG1
RG100	IR18A1658	0.99	0.005	0.005	SG1
RG101	IR17A3137	0.995	0.002	0.003	SG1
RG102	IR18A1877	0.985	0.01	0.005	SG1
RG103	IR17A2977	0.993	0.003	0.004	SG1
RG104	IR18A1866	0.993	0.003	0.004	SG1
RG105	IR18A1567	0.989	0.007	0.004	SG1
RG106	IR18A1090	0.972	0.015	0.012	SG1
RG107	IR18A2043	0.99	0.006	0.004	SG1
RG108	IR18A1838	0.955	0.02	0.024	SG1
RG109	NDR2065	0.788	0.023	0.19	SG1
RG110	IRRI119	0.756	0.036	0.208	AD
RG111	IR14T156	0.99	0.004	0.006	AD
RG112	IR17A3003	0.984	0.005	0.011	SG1
RG113	IR126952:17	0.99	0.003	0.007	SG1
RG114	IR18A1564	0.953	0.01	0.036	SG1
RG115	IR126952-28	0.985	0.008	0.007	SG1
RG116	IR18A1381	0.988	0.004	0.009	SG1