

Supplementary Table S8. Estimated Ks distribution for Ranunculales species

Sample ID	Family	Species	Comp1_Percent	Comp1_Ks	Comp1_log dS	Comp2_Percent	Comp2_Ks	Comp2_log dS	Comp3_Percent	Comp3_Ks	Comp3_log dS	Comp4_Percent	Comp4_Ks	Comp4_log dS	Total_Pairs
00132	Menispermaceae	Diploclosia affinis	1.4	0.016	-5.0149	8.2	0.392	-1.1372	54.8	1.424	0.2785	62	2.945	1.0301	1.982
00210	Menispermaceae	Stephania longa	57.8	1.826	0.5275	3.3	0.098	-2.9511	18.2	0.7	-0.5311	62.8	3.187	1.1222	1.584
00303	Lardizabaleaceae	Akebia trifoliata subsp. australis	39.7	3.091	1.083	47	1.264	0.1376	54.1	0.698	-0.4316	4.4	0.167	-2.2664	2.501
00392	Ranunculaceae	Anemone hepuchensis	2.2	0.064	-3.7267	30	0.81	-0.3327	57.7	1.827	0.5306	52.2	3.253	1.1471	2.352
00626	Menispermaceae	Tinospora sagittata	3.1	0.09	-3.0422	10.1	0.517	-0.833	61.8	1.663	0.4399	55.6	3.126	1.1002	2.192
00888	Menispermaceae	Tinospora sinensis	11.9	0.557	-0.7814	58.3	1.806	0.5286	1.9	0.041	-0.3793	65.4	3.053	1.0749	1.667
00910	Berberidaceae	Berberis atrocarpa	17.4	0.353	-1.173	0.5	0.036	-3.9791	54.2	3.254	1.1458	44.6	1.458	0.3042	1.536
01159	Menispermaceae	Diploclosia glaucescens	3.1	0.062	-3.5909	7.5	0.421	-1.0663	53.6	1.45	0.2942	61.3	3.077	1.0781	1.914
01205	Berberidaceae	Mahonia bodinieri	1.4	0.041	-3.7332	26.7	0.389	-1.115	50	1.58	0.3723	51.1	3.078	1.08	2.060
01207	Ranunculaceae	Clematis apifolia	1.7	0.094	-2.9559	22.7	0.708	-0.4758	62.5	1.754	0.489	54.6	3.098	1.0929	1.794
07839	Ranunculaceae	Cimicifuga japonica	51.2	3.144	1.1061	2.4	0.587	-0.6421	2.6	0.086	-3.1795	53.9	1.357	0.2154	1.929
07886	Berberidaceae	Dysosma delavayi	19.5	0.617	-0.5843	1.1	0.061	-3.589	55	3.128	1.1001	53.4	1.419	0.2752	2.058
07887	Ranunculaceae	Beesia calthifolia	19.4	0.503	-0.7951	2.8	0.057	-3.791	53.9	3.057	1.0701	51.4	1.344	0.2143	1.883
07897	Berberidaceae	Berberis ziyunensis	1.3	0.041	-3.9143	26.3	0.44	-1.0188	47.4	1.602	0.3926	53	3.183	1.1166	1.963
07963	Berberidaceae	Epimedium myrianthum	52.8	3.215	1.1327	2.2	0.691	-0.4883	1.9	0.096	-2.8039	54.2	1.62	0.4193	1.802
07968	Berberidaceae	Epimedium boreali-guizhouense	20.2	0.689	-0.4786	1.9	0.08	-3.1848	56.9	3.254	1.1439	53.5	1.629	0.414	1.851
07969	Berberidaceae	Epimedium simplicifolium	15.2	0.752	-0.3843	36.6	1.395	0.2858	51.5	2.441	0.8624	49.3	3.53	1.2425	2.330
07970	Berberidaceae	Epimedium bailingense	21.5	0.798	-0.318	1.6	0.104	-3.0182	57.1	3.368	1.1847	53.8	1.687	0.4477	1.533
07985	Berberidaceae	Mahonia ciwakensis	21.5	0.393	-1.0908	47.6	1.514	0.3358	0.9	0.033	-0.4823	52.6	3.197	1.1238	1.856
08000	Berberidaceae	Dysosma difformis	55.6	3.165	1.1119	19.9	0.632	-0.5485	1.5	0.078	-3.3523	50.7	1.453	0.3034	2.101
08013	Lardizabaleaceae	Stauntonia obovatifoliola subsp. Urophylla	46.5	2.959	1.0206	3	0.126	-2.6858	50.4	2.821	0.9555	62.7	0.866	-0.2696	2.645
08047	Berberidaceae	Berberis cavaleriei	24	0.38	-1.1398	1.8	0.043	-3.636	51.5	3.237	1.136	47.3	1.539	0.343	2.050
08059	Ranunculaceae	Clematis puberula var. ganpiniana	56.4	3.17	1.1166	55.6	1.73	0.4766	26.1	0.761	-0.4037	3	0.095	-2.9993	1.916
08105	Menispermaceae	Stephania epigaea	57.1	1.939	0.6062	62.7	3.126	1.1036	2.9	0.057	-3.9218	18.4	0.718	-0.4912	1.478
08121	Ranunculaceae	Clematis terniflora var. terniflora	55.4	1.082	-0.0068	11.2	0.407	-1.027	53.2	2.888	1.0029	2.2	0.037	-4.2038	2.433
08177	Berberidaceae	Mahonia brevicastrata	51.8	3.057	1.0719	25.9	0.403	-1.0822	1.3	0.026	-4.6372	48.2	1.546	0.3605	2.309
08256	Ranunculaceae	Anemone vitifolia	1.2	0.05	-4.0693	29.2	0.789	-0.3538	57.9	1.736	0.4707	54.8	3.201	1.1287	1.927
08260	Berberidaceae	Berberis kunmingensis	0.4	0.004	-5.773	21.3	0.393	-1.1011	47.2	1.56	0.3594	53	3.272	1.1531	1.780
08514A	Berberidaceae	Epimedium davidii	59.4	1.636	0.4039	53.4	3.202	1.1264	7.7	0.097	-3.3999	19.5	0.725	-0.4268	2.293
08580A	Ranunculaceae	Asteropyrum cavaleriei	0.3	0	-9.2103	11.1	0.155	-2.4641	68.8	1.662	0.3465	57.5	3.114	1.0906	1.824
08734A	Berberidaceae	Epimedium leptorhizum	67.7	1.797	0.4641	53.3	3.363	1.1826	79.3	2.757	0.9263	12	0.362	-1.4605	1.909
08771A	Ranunculaceae	Anemone tomentosa	4.9	0.025	-4.5367	12	0.239	-1.879	50.2	1.454	0.2504	70.7	2.869	0.9911	2.001
08784	Lardizabaleaceae	Holboellia grandiflora	13.5	0.181	-2.1402	3.5	0.011	-5.31	50.7	2.988	1.0358	52.4	0.973	-0.166	2.209
08889A	Ranunculaceae	Clematis lasiantha	5.6	0.037	-3.9657	15.9	0.338	-1.6299	59.4	1.75	0.4576	56	3.209	1.1308	2.009
08891A	Ranunculaceae	Ranunculus ficarifolius	49.3	2.235	0.7594	34.1	0.899	-0.2155	56.1	3.246	1.1458	6.4	0.166	-2.4635	2.255
08894A	Berberidaceae	Berberis silvicola	7.4	0.044	-3.6324	25.8	0.322	-1.5323	53.4	1.675	0.4174	47.7	3.202	1.1272	2.055
08895A	Berberidaceae	Berberis zianlanshanensis	6.8	0.04	-3.8235	28.3	0.431	-1.2944	51.8	1.569	0.3586	51.6	3.099	1.0882	2.404
08914A	Berberidaceae	Berberis hiophylla	20.5	0.277	-1.6527	50.3	1.548	0.3443	6.7	0.042	-3.7426	58.6	2.946	1.027	2.037
08925A	Ranunculaceae	Clematis uncinata	59.6	1.687	0.441	56.6	3.134	1.1016	2.6	0.082	-3.281	21.4	0.667	-0.5238	2.034
08928A	Lardizabaleaceae	Sinofranchetia chinensis	2.7	0.09	-3.0727	0.1	0	-9.2103	45.4	2.996	1.0388	60.8	0.739	-0.4455	2.628
08951A	Berberidaceae	Mahonia decipiens	51.5	3.056	1.0716	26.1	0.368	-1.1638	1.8	0.04	-3.8308	50.2	1.613	0.3966	2.228
09032A	Ranunculaceae	Clematis kwachowensis	13.9	0.15	-0.6554	5.2	0.275	-1.1566	65.7	1.945	0.5674	12	0.109	-3.439	2.209
09154A	Berberidaceae	Mahonia napaulensis	52.2	3.098	1.085	26.1	0.36	-1.1777	1.7	0.039	-0.4038	48.3	1.518	0.3196	2.132
09155A	Berberidaceae	Mahonia polyodonta	1.6	0.027	-4.4141	25.6	0.399	-1.0952	50.8	1.533	0.3398	51.2	3.084	1.08	2.182
09161A	Berberidaceae	Mahonia sheni	50.7	3.103	1.0926	2.3	0.042	-3.983	48.2	1.629	0.4184	27.7	0.458	-0.9893	2.134
09265A	Berberidaceae	Mahonia gracilipes	9.7	0.074	-3.1797	20.2	0.365	-1.3429	49.4	1.566	0.3484	58.9	3.047	1.0693	2.713
09334A	Ranunculaceae	Anemone flaccida	44.8	1.688	0.4486	1.6	0.113	-2.979	48.9	0.67	-0.4834	41.5	3.034	1.0678	2.628
09383	Berberidaceae	Epimedium brachyrhizum	5.5	0.134	-2.5803	18.2	0.698	-0.4946	58.6	1.697	0.4504	58	3.172	1.1158	1.807
09404	Ranunculaceae	Anemone begoniifolia	13	0.079	-3.2247	21.7	0.28	-1.8357	55	1.536	0.3169	58.7	2.877	1.0007	2.508
09679	Ranunculaceae	Thalictrum prizwalskii	60.9	1.744	0.4117	29.8	0.233	-2.3292	45.5	3.12	1.0972	5.3	0.006	-5.8755	2.007
09688	Berberidaceae	Mahonia bracteolata	53.4	3.098	1.089	23.8	0.367	-1.3677	5.3	0.036	-4.043	48.5	1.643	0.4263	2.121
09701	Berberidaceae	Berberis thunbergii	6.9	0.036	-4.105	22.6	0.319	-1.5064	52.1	1.582	0.3602	51.3	3.114	1.0933	2.062
09705	Ranunculaceae	Clematis peterae	12.5	0.439	-1.162	58.6	1.75	0.4754	7.8	0.122	-2.822	59.2	3.171	1.1175	2.048
09714	Berberidaceae	Berberis subulvis	6.3	0.024	-4.4375	25.1	0.261	-1.8267	47.4	1.602	0.3841	54.2	3.044	1.0673	2.154
09724	Berberidaceae	Mahonia subimbricata	33.4	0.339	-1.6549	7.2	0.024	-4.3112	47.2	3.124	1.0975	52.1	1.659	0.3987	2.038
09747	Berberidaceae	Epimedium epsteinii	10.3	0.399	-1.1955	1.2	0.021	-4.7316	51.6	3.326	1.1713	69.1	1.747	0.4428	2.020
09748	Berberidaceae	Epimedium dolichostemon	0.1	0	-9.2103	10	0.407	-1.2374	61.1	1.719	0.4458	60.4	3.218	1.1332	1.839
09751	Berberidaceae	Epimedium stellulatum	60.1	3.267	1.1501	11.6	0.56	-0.7539	3.7	0.087	-3.1303	52.1	1.623	0.4086	2.136
09757	Berberidaceae	Berberis integripetala	2.4	0.016	-5.0152	22.8	0.378	-1.4055	53.1	1.554	0.3471	53.3	3.096	1.0903	1.938
09766	Berberidaceae	Epimedium sagittatum var. glabratum	5	0.066	-3.5345	10.8	0.393	-1.2135	64.1	1.738	0.4418	55.1	3.275	1.1529	2.010
09767	Berberidaceae	Epimedium chlorandrum	0	0	-9.2103	9.3	0.376	-1.3334	66.4	1.715	0.4205	55.4	3.293	1.1601	2.085
09772	Berberidaceae	Epimedium fargesii	52.4	3.231	1.1408	13.8	0.276	-1.8957	0.7	0.003	-6.5887	66.1	1.739	0.4301	1.580
09773	Berberidaceae	Epimedium ecalcaratum	2.7	0.023	-4.2586	11.6	0.368	-1.3408	66.5	1.787	0.4637	54.9	3.26	1.1486	1.766
09823	Papaveraceae	Stylophorum lasiocarpum	39.6	1.044	-0.0193	41.6	2.169	0.7331	8	0.254	-1.9191	45.1	3.481	1.2257	1.527
09826	Ranunculaceae	Paeonia anomala subsp. veitchii	10.5	0.109	-2.907	25.9	0.512	-0.853	55.4	1.278	0.1177	55.3	2.859	0.9931	2.905
10378A	Berberidaceae	Mahonia breviracemata	51.7	3.04	1.0659	24.8	0.416	-1.0593	1.1	0.02	-4.8045	54.6	1.578	0.3669	1.803
10465A	Papaveraceae	Eomecon chionantha	49.7	0.948	-0.1466	49.8	1.739	0.4768	4.9	0.166	-2.5373	46.3	3.23	1.136	2.058
10478A	Berberidaceae	Epimedium ishikienii	53.8	3.231	1.1381	55.1	1.584	0.3835	23.3	0.715	-0.4492	1.4	0.045	-4.4797	1.782
10499A	Berberidaceae	Dysosma versipellis	58.2	1.444	0.2569	59.1	1.298	1.0294	4.2	0.032	-4.1777	13	0.364	-1.2715	2.647
10583A	Ranunculaceae	Thalictrum fortunei	21.2	0.602	-0.6745	62.4	1.666	0.4118	7.9	0.089	-3.2776	51.6	3.109	1.0946	2.001
10661A	Lardizabaleaceae	Stauntonia brunoniana	56.5	1.066	-0.0794	52.8	2.956	1.0271	58.9	2.781	0.9448	9.7	0.135	-2.8797	2.528
10669A	Ranunculaceae	Thalictrum fabri	19.4	0.404	-0.6875	8.9	0.104	-3.1583	48.6	3.319	1.1708	66.2	1.864	0.517	2.028
10681A	Ranunculaceae	Aconitum finetianum	9.2	0.236	-1.7653	58.7	1.263	0.1058	4.3	0.026	-4.1994	60.1	2.797	0.9611	2.602
10742A	Lardizabaleaceae	Stauntonia chinensis	3.6	0.119	-3.2067	47.2	0.767	-0.3455	41.7	1.798	0.5262	44.2	3.09	1.0904	2.953
11097A	Ranunculaceae	Aquilegia ecalcarata	57.3	1.545											

12754A	Papaveraceae	Styloporum sutchuense	54.8	2.936	1.0215	60	1.334	0.1634	65.6	2.663	0.8927	12.2	0.163	-2.8489	2.323
12779A	Berberidaceae	Berberis feddeana	7	0.04	-3.925	23.7	0.42	-1.3017	56.3	1.692	0.428	53.5	3.125	1.0993	2.273
12787A	Papaveraceae	Meconopsis oliveriana	13.1	0.071	-3.4025	17.9	0.188	-2.4514	59	1.502	0.282	61.1	2.785	0.9594	2.152
12794A	Ranunculaceae	Ranunculus petrogeiton	64.3	0.291	1.0202	62	1.774	0.4876	18.2	0.729	-0.4203	9	0.103	-3.2279	2.376
12803A	Papaveraceae	Corydalis lanioides	13.1	0.269	-1.9581	62.1	1.463	0.2664	0.2	0	-9.2103	51.8	3.108	1.0899	1.848
12807A	Circaeasteraceae	Kingdonia uniflora	61	2.959	1.0332	60.4	1.628	0.3807	13.9	0.355	-1.4071	8.2	0.067	-3.6211	1.970
12823A	Papaveraceae	Dicranostigma leptopodium	55.9	3.011	1.0496	59.7	1.446	0.2405	67.6	2.717	0.9152	14.5	0.189	-2.5947	2.289
12876A	Ranunculaceae	Trollius japonicus	58.4	3.114	1.0954	53.8	1.566	0.3703	19.1	0.701	-0.4646	4.9	0.081	-3.3718	1.778
12909A	Berberidaceae	Berberis wilsoniae	54.1	1.662	0.4155	21.9	0.439	-1.0989	55.5	3.102	1.0888	9.3	0.091	-2.9954	2.289
12919A	Ranunculaceae	Thalictrum delavayi	14	0.151	-2.7166	12.7	0.454	-0.9684	55	1.632	0.3983	59.5	3.016	1.0568	1.843
12926A	Ranunculaceae	Thalictrum bouffordii	12.7	0.356	-1.322	56.8	1.491	0.2819	6.7	0.048	-3.9822	66.3	2.839	0.9823	2.061
12960A	Ranunculaceae	Thalictrum nepalense	59.5	1.601	0.3718	58.9	2.966	1.0341	8.4	0.071	-3.5702	14.8	0.464	-0.9365	1.821
12974A	Ranunculaceae	Caltha scaposa	19.2	0.693	-0.4683	57.2	1.632	0.4037	10.1	0.088	-3.4275	54	3.08	1.0846	2.094
12985A	Ranunculaceae	Thalictrum finetii	15	0.54	-0.7894	60	1.668	0.4208	7.9	0.093	-3.3181	60.9	2.987	1.0459	1.843
12998A	Ranunculaceae	Batrachium bungei	64.3	3.123	1.0977	56.1	1.792	0.4997	10.7	0.547	-0.7526	9.6	0.138	-2.9392	3.555
12999A	Ranunculaceae	Ranunculus tanguticus	59.8	3.111	1.095	63.2	1.865	0.5406	17.3	0.711	-0.4799	7.1	0.088	-3.3916	2.169
13004A	Papaveraceae	Corydalis curviflora	56.7	2.947	1.0268	54.5	1.344	0.1925	13.3	0.366	-1.2177	5.9	0.042	-4.0332	1.973
13008A	Ranunculaceae	Aconitum scaposum	61.3	1.617	0.3749	50.6	3.099	1.0882	7.8	0.124	-2.9672	40.4	0.903	-0.2038	2.345
13009A	Ranunculaceae	Thalictrum uncatum	6.9	0.077	-3.3539	16.5	0.484	-0.9614	60.6	1.691	0.4386	56.3	3.058	1.0739	1.674
13016A	Berberidaceae	Sinopodophyllum hexandrum	15.6	0.485	-0.932	58.9	1.585	0.3757	4.1	0.049	-3.7154	59.5	2.951	1.0339	2.136
13031A	Ranunculaceae	Clematis rehderiana	61.7	3.134	1.1036	54.7	1.687	0.4416	13.1	0.532	-0.8243	5.1	0.058	-3.7429	1.859
13062A	Ranunculaceae	Aconitum gymnanthum	63.6	1.449	0.2465	49.8	3.131	1.1004	6.9	0.11	-3.1187	49.3	1	-0.1397	2.189
13063A	Ranunculaceae	Clematis tangutica	59.8	3.034	1.0701	60	1.733	0.4714	15.4	0.644	-0.5753	5.7	0.077	-3.4459	2.117
13066A	Ranunculaceae	Thalictrum atriplex	58	1.629	0.4005	57.9	3.01	1.0543	9.7	0.081	-3.3208	13.3	0.533	-0.7736	1.983
13088A	Ranunculaceae	Aquilegia rockii	61.1	3.047	1.0629	60.5	1.595	0.3604	14.6	0.457	-1.0332	4.5	0.048	-3.9231	1.669
13089A	Ranunculaceae	Delphinium tatsienense	37.6	0.936	-0.1336	60.6	1.556	0.3583	6.5	0.143	-2.8653	49.2	3.107	1.0949	2.292
13097A	Ranunculaceae	Cimicifuga foetida var. foliolosa	4	0.065	-3.8482	18.8	0.602	-0.6209	58.1	1.475	0.2859	54.6	3.165	1.1109	1.901
13116A	Ranunculaceae	Ranunculus tematus	14.5	0.683	-0.498	6.6	0.108	-3.1786	55.4	3.252	1.1451	66.1	1.933	0.5763	2.148
13134A	Ranunculaceae	Thalictrum cultratum	62.2	1.69	0.4217	14.2	0.407	-1.174	63.2	2.978	1.0367	4.3	0.029	-4.5963	1.868
13137A	Ranunculaceae	Caltha palustris var. barthelii	58.3	2.981	1.0416	55.8	1.569	0.3422	13.7	0.331	-1.4865	14.6	0.112	-3.1135	2.148
13139A	Ranunculaceae	Aconitum crassiflorum	56	1.51	0.321	50.1	3.088	1.0851	10.4	0.116	-3.2105	34.2	0.876	-0.1978	2.285
13140A	Ranunculaceae	Aconitum piloptatum	55.6	1.654	0.4151	5.5	0.125	-2.9405	34.6	0.831	-0.2824	51.8	3.195	1.1252	2.413
13143A	Ranunculaceae	Aconitum brunneum	43.1	0.882	-0.2461	63.2	1.509	0.2967	7.8	0.126	-2.8601	49.7	3.046	1.0693	2.366
13163A	Papaveraceae	Corydalis pseudosibirica	62.8	2.863	0.9917	8.6	0.338	-1.3245	4.6	0.046	-4.0432	58	1.397	0.2336	1.911
13165A	Ranunculaceae	Aconitum pendulum	40.7	0.918	-0.2005	62.1	1.688	0.4217	6.5	0.107	-3.2255	47.4	3.242	1.1408	2.293
13182A	Papaveraceae	Meconopsis racemosa	55.4	1.647	0.4171	20.3	0.609	-0.657	57.7	3.058	1.0733	8.2	0.108	-3.1207	1.855
13196A	Papaveraceae	Corydalis pseudotungolensis	11.5	0.372	-1.2455	54.9	1.394	0.2309	4.8	0.048	-3.9592	59.9	2.973	1.0377	1.855
13202A	Ranunculaceae	Thalictrum foetidum	8.5	0.086	-3.3449	17.5	0.523	-0.9267	60.6	2.008	0.592	54	3.503	1.2283	1.855
13214A	Papaveraceae	Corydalis adunca	58.2	3.061	1.0689	61.1	1.459	0.2513	72	2.726	0.9152	11.1	0.253	-1.9561	2.118
13216A	Ranunculaceae	Thalictrum smithii	8.1	0.052	-3.7727	14.2	0.26	-1.8545	60.5	1.558	0.3214	62.2	2.92	1.01	1.822
13271A	Berberidaceae	Berberis gyalica	17.8	0.431	-1.1096	55	1.648	0.4031	6.7	0.066	-3.4143	58.3	3.09	1.0862	2.306
59	Menispermaceae	Stephania kwangsiensis	14	0.526	-0.7834	1.7	0.047	-3.7267	65.2	2.877	1.0038	58.4	1.509	0.3193	1.769
BN01259	Menispermaceae	Stephania japonica	62.8	3.098	1.0524	51.9	1.742	0.4552	21.2	0.221	-2.3247	18.3	0.129	-2.9442	1.611
BN01422	Menispermaceae	Cocculus laurifolius	59.3	2.98	1.0416	19.6	0.262	-2.0945	4.8	0.012	-5.0324	52.1	1.56	0.3507	1.983
BN01692	Menispermaceae	Fibraura recisa	52.9	3.073	1.0762	18.7	0.164	-2.6381	9.5	0.023	-4.3733	51.6	1.459	0.2741	2.074
BN01829	Ranunculaceae	Clematis parviflora	4.5	0.024	-4.4215	17.3	0.357	-1.6278	64.9	1.845	0.5098	52.7	3.23	1.1391	2.090
BN01830	Menispermaceae	Arcangelisia gusanling	4.4	0.008	-5.5397	18.8	0.197	-2.4791	48.9	1.434	0.2732	53.3	3.084	1.082	2.229
BN01845	Ranunculaceae	Clematis subumbellata	0.4	0	-9.1113	14.3	0.327	-1.7027	69.3	1.823	0.4823	57.9	3.091	1.0882	1.869
BN01846	Menispermaceae	Cyclea polypetala	56	1.573	0.3593	56.8	3.019	1.0595	1.5	0.002	-7.1872	16.3	0.23	-2.311	2.048
BN01858	Ranunculaceae	Clematis henriensis	65.6	2.899	1.0045	58.5	1.649	0.3889	16.8	0.286	-1.8172	3.2	0.011	-5.3067	2.143
BN01859	Ranunculaceae	Clematis chinii	3.4	0.023	-4.3864	14.3	0.273	-1.8096	56.5	1.632	0.384	63.9	3.012	1.0519	2.027
BN01922	Menispermaceae	Eleutharhena macrocarpa	57.4	2.668	0.4006	25.1	0.232	-2.3399	48.3	3.129	1.0993	1	0	-8.7874	2.165
CC00444A	Ranunculaceae	Pulsatilla chinensis	2.8	0.093	-3.2354	27.9	0.821	-0.3041	56.2	1.83	0.5364	55.2	3.223	1.1362	1.639
CC00446A	Ranunculaceae	Ranunculus repens	58.7	3.183	1.1238	23.1	0.746	-0.432	1.9	0.096	-2.8983	59.3	1.918	0.5834	1.931
CC00479A	Papaveraceae	Dicentra spectabilis	51.3	3.061	1.0724	61.2	1.281	0.1416	19.5	0.554	-0.6982	2.1	0.068	-3.3327	2.158
CC00494A	Ranunculaceae	Aconitum coreanum	44.2	1.313	1.0988	46.2	1.54	0.368	40.8	0.784	-0.304	5.9	0.23	-1.8267	2.211
CC00505A	Ranunculaceae	Pulsatilla cernua	1.6	0.058	-3.8317	24.8	0.772	-0.358	57.6	1.794	0.5144	57.3	3.181	1.1195	1.789
CD00559	Berberidaceae	Mahonia retinervis	13.5	0.077	-2.9996	27.9	0.322	-1.574	52.5	1.655	0.4015	44.6	3.267	1.1507	2.352
CQ00662	Papaveraceae	Macleaya cordata	47.6	3.219	1.1302	14.8	0.16	-2.5435	0.5	0	-9.0033	58	1.31	0.1201	2.215
CQ00773	Berberidaceae	Berberis virgetorum	7.1	0.04	-3.801	26.2	0.295	-1.6362	46.1	1.584	0.3746	51.5	3.16	1.108	1.843
CQ00776	Berberidaceae	Berberis julianae	51.4	3.053	1.0703	0.4	0	-8.2952	45.9	1.556	0.3751	30.5	0.372	-1.5853	1.920
CQ00784	Ranunculaceae	Aconitum sinomontanum	49.9	3.185	1.1222	52.2	1.749	0.4865	35.6	0.858	-0.2377	7.9	0.162	-2.5272	1.961
CQ00787	Papaveraceae	Chelidonium majus	54.6	1.335	0.1735	15.5	0.198	-2.5489	65.2	2.781	0.9365	51.1	3.175	1.1132	1.969
CQ00790	Ranunculaceae	Coptis chinensis	49.2	3.251	1.1433	20.9	0.277	-2.0433	0.6	0	-8.8009	61.1	1.739	0.4403	1.751
CQ00791	Papaveraceae	Corydalis tomentella	25.4	0.196	-2.4187	55.5	1.439	0.2452	7	0.012	-5.0482	44.4	3.084	1.0781	2.447
CQ00838	Papaveraceae	Corydalis shearii	54.4	3.162	1.1092	9.9	0.279	-1.7722	71.8	2.727	0.9144	65	1.513	0.2844	1.436
CQ00918	Berberidaceae	Berberis gagnepainii	49.3	1.623	0.3985	25.8	0.292	-1.6866	51.4	3.099	1.0876	4.7	0.019	-4.7314	1.936
CQ00921	Papaveraceae	Papaver rhoeas	58.1	1.716	0.4496	50.4	3.188	1.1226	10	0.125	-2.6872	24	0.612	-0.6584	2.043
CQ00940	Menispermaceae	Cocculus orbiculatus	10.4	0.473	-0.9705	61.1	3.173	1.1184	57.3	1.685	0.4308	4.3	0.061	-3.8052	1.717
CQ00952	Ranunculaceae	Epimedium sagittatum	16.2	0.648	-0.5554	57.9	1.641	0.4122	6.8	0.099	-3.342	59.4	3.061	1.0749	2.688
CQ00966	Ranunculaceae	Semiaquilegia adoxoides	6.8	0.01	-5.2871	29.6	0.241	-2.9778	52.3	1.633	0.3764	53.8	2.973	1.0344	2.030
CQ01025	Berberidaceae	Mahonia fordii	47.6	1.618	0.3903	7.8	0.042	-3.573	27.3	0.282	-1.6916	50.4	3.111	1.0936	2.085
CQ01036	Berberidaceae	Mahonia sherridiana	48.4	3.187	1.1222	26	0.336	-1.5271	6.8	0.037	-3.8264	49	1.638	0.4162	1.816
CQ01174	Menispermaceae	Stephania cephalantha	63.3	3.115	1.0962	61.3	1.906	0.5741	15.7	0.676	-0.5497	5.1	0.067	-3.8112	1.358
CS00127	Berberidaceae	Mahonia eurybracteata subsp. ganpinensis	52.1	3.09	1.0867	1.8	0.042	-3.7132	45.2	1.526	0.3466	25.8	0.399	-1.0834	2.990
CS00128	Berberidaceae	Berberis soeuliana	1.3	0.034	-4.0797	26.5	0								

YZ0002	Ranunculaceae	Aconitella aconiti	30.8	2.532	0.8243	33.1	1.003	-0.2133	53.8	0.048	-3.6588	13.3	0.062	-4.6632	6.004
YZ0005	Ranunculaceae	Actaea mairei	2	0	-8.5295	38.9	0.021	-4.3014	39.4	0.161	-2.5657	49.4	0.266	0.4946	3.207
YZ0007	Ranunculaceae	Actaea vaginata	55.1	2.142	0.5489	33.9	0.033	-3.9318	2.3	0	-8.7063	38.7	0.227	-2.1196	3.471
YZ0008	Ranunculaceae	Adonis amurensis	37.6	0.203	-2.387	37.8	0.02	-4.3629	49.2	2.141	0.5631	3.1	0	-8.8361	4.975
YZ0009	Ranunculaceae	Adonis sibirica	2.4	0	-8.703	36	0.024	-4.2251	42	0.242	-2.1891	49	2.197	0.6107	3.280
YZ0010	Ranunculaceae	Anemone glaucifolium	54.6	2.128	0.5682	33.3	0.037	-3.8574	2.5	0	-8.8755	43	0.277	-1.9735	4.159
YZ0011	Ranunculaceae	Anemone patens	16.9	0.236	-1.8337	58	1.164	-0.0085	4.4	0.017	-4.9279	65.2	2.475	0.8174	3.150
YZ0012	Ranunculaceae	Aquilegia coerulea	36.8	0.202	-2.302	34.7	0.02	-4.3999	50.9	2.172	0.5802	2	0	-9.025	4.076
YZ0013	Ranunculaceae	Asteropyrum peltatum	2.5	0	-8.7408	39.4	0.032	-3.9746	45.8	0.238	-2.2031	48.6	2.12	0.5524	3.935
YZ0014	Berberidaceae	Berberis aquifolium	43	0.037	-3.6325	1.8	0	-8.8249	38.6	2.249	0.6225	55	0.136	-2.5411	6.434
YZ0016	Berberidaceae	Berberis shensiensis	41.4	2.221	0.6178	42.4	0.044	-3.5785	2.3	0	-9.0659	55.5	0.217	-2.2257	8.696
YZ0017	Ranunculaceae	Callianthemum alatavicum	1.9	0	-8.7261	37.8	0.02	-4.3511	38.1	0.194	-2.4093	49.9	2.148	0.5621	4.595
YZ0018	Ranunculaceae	Callianthemum taipaicum	38.8	2.101	0.5314	2.8	0	-8.8254	45.1	0.12	-2.8314	50.1	0.025	-4.0764	4.773
YZ0019	Papaveraceae	Capnoides sempervirens	41.2	3.116	1.0925	33.1	0.178	-2.6264	1.1	0	-8.903	46.6	1.321	0.1523	1.918
YZ0020	Circaeasteraceae	Circaeaster agrestis	50.2	0.055	-3.2813	2.3	0	-8.8379	31.4	2.286	0.6567	67.3	0.202	-2.2716	6.305
YZ0021	Menispermaceae	Cissampelos mucronata	2.2	0	-8.8947	37.6	0.031	-4.0044	42.9	0.238	-2.3515	50.9	2.401	0.736	3.812
YZ0022	Ranunculaceae	Clematis lanuginosa	4.9	0.118	-2.8169	19.9	0.667	-0.534	55.7	1.694	0.4534	60.1	3.059	1.0781	1.359
YZ0023	Ranunculaceae	Clematis patens	3.2	0	-8.9356	42.4	0.228	-2.2685	48.5	2.108	0.5564	39.6	0.029	-4.0686	6.380
YZ0025	Menispermaceae	Cocculus trilobus	56.8	1.73	0.2403	2.8	0	-9.1222	33	2.531	0.84	50.6	0.098	-3.3882	6.276
YZ0026	Ranunculaceae	Coptis deltoidea	63.6	0.139	-3.2943	2.7	0	-9.2103	31.6	2.655	0.8909	42.6	2.159	0.5675	5.383
YZ0027	Ranunculaceae	Coptis teeta	43.9	2.153	0.5799	3.1	0	-9.0697	33.4	2.598	0.8693	65.1	0.192	-3.0448	4.449
YZ0030	Papaveraceae	Corydalis cheilanthifolia	62.9	2.171	0.6224	33	0.109	-2.9671	1.6	0	-8.6838	51.7	1.048	-0.2068	3.547
YZ0035	Papaveraceae	Corydalis yanhushuo	2.7	0	-8.8867	41	0.027	-4.0718	36.5	0.2	-2.2109	48.6	1.926	0.4129	5.823
YZ0038	Papaveraceae	Dactylicapnos scandens	31.7	0.046	-3.6415	39	0.255	-1.9706	2.1	0	-8.886	60.1	2.047	0.9491	4.069
YZ0039	Papaveraceae	Dactylicapnos turulosa	51.5	2.918	1.016	3.9	0.035	-4.077	60.8	1.332	0.1745	17.5	0.364	-1.2778	2.513
YZ0041	Ranunculaceae	Delphinium cardinale	3.7	0.038	-3.9859	8.9	0.268	-1.5828	59.9	1.236	0.1048	59.2	2.706	0.9265	3.454
YZ0042	Ranunculaceae	Delphinium elatum	43.1	0.106	-2.7822	44.5	1.801	0.3035	2.4	0	-8.8471	48	0.031	-3.8258	6.815
YZ0043	Ranunculaceae	Delphinium grandiflorum var. chinense	50.4	2.954	1.0317	63.4	1.266	0.1246	28.2	0.636	-0.5487	4	0.09	-3.218	3.035
YZ0044	Ranunculaceae	Delphinium hybrid cultivar	40.9	3.273	1.1536	42.3	0.911	-0.1424	5.9	0.271	-1.663	47.9	1.816	0.5432	2.409
YZ0045	Ranunculaceae	Delphinium nudicaule	46.6	2.983	1.046	67.8	1.409	0.2264	46.4	0.879	-0.2446	7.3	0.134	-2.7442	3.297
YZ0046	Papaveraceae	Dendromecon rigidum	16.7	0.053	-3.4946	49.6	0.328	-1.4775	45.6	1.389	0.1749	31.7	3.052	1.0726	3.997
YZ0047	Berberidaceae	Diphylleia cymosa	57	2.202	0.6021	2.7	0	-8.9077	43.1	2.666	0.8971	55.5	0.267	-2.5019	3.809
YZ0048	Berberidaceae	Diphylleia grayi	44.6	0.272	-2.3881	1.6	0	-9.1073	53.6	2.495	0.8358	65.6	2.183	0.6331	4.502
YZ0049	Berberidaceae	Diphylleia sinensis	1.4	0	-8.9545	29.9	0.07	-3.2958	39.2	0.481	-1.2082	66	2.066	0.5387	3.678
YZ0050	Berberidaceae	Dysosma aurantiacaulis	2	0	-8.7424	36.2	0.048	-3.5925	43.6	0.321	-1.7755	55.4	2.101	0.5417	3.173
YZ0051	Berberidaceae	Dysosma pleiantha	32.3	0.018	-4.4577	2.1	0	-9.062	54.7	2.184	0.5936	34.2	0.188	-2.4346	3.293
YZ0052	Berberidaceae	Dysosma tsayuensis	16.4	0.008	-5.4584	43.3	0.141	-3.0789	45.4	1.472	0.2284	35.8	3.065	1.0729	3.510
YZ0054	Berberidaceae	Epimedium koreanum	31.3	0.023	-4.293	1.8	0	-8.9877	57.9	2.16	0.582	33.6	0.227	-2.1858	4.987
YZ0055	Berberidaceae	Epimedium pseudowushanense	2.2	0	-8.868	30.1	0.021	-4.3303	32.8	0.206	-2.2332	56.4	2.215	0.6091	2.132
YZ0056	Berberidaceae	Epimedium pubescens	41.9	0.063	-3.8904	41.2	1.547	0.3065	39	2.96	1.0302	44.4	0.112	-3.438	2.922
YZ0057	Ranunculaceae	Eranthis hyemalis	2.4	0	-8.8278	32.7	0.029	-4.1113	37.9	0.263	-2.003	55.6	2.119	0.5522	4.869
YZ0058	Papaveraceae	Eranthis californica	46.7	0.891	-0.1758	53	1.654	0.4336	5.7	0.186	-2.3815	38	3.266	1.1486	3.629
YZ0059	Papaveraceae	Fumaria bracteosa	1.8	0	-8.8765	39.1	0.021	-4.3088	38.3	0.178	-2.4584	49	2.094	0.5219	3.207
YZ0060	Ranunculaceae	Garidella nigellastrum	5.2	0.058	-3.7305	20.4	0.467	-0.9478	59.5	1.357	0.2038	52.9	2.88	1.0031	2.477
YZ0061	Ranunculaceae	Garidella unguicularis	44.2	0.434	-1.3879	34.6	0.07	-3.2028	54.6	2.276	0.6805	3.1	0.001	-7.9699	3.908
YZ0062	Papaveraceae	Glaucium flavum	41.1	0.388	-1.4736	29.2	0.06	-3.3086	60.2	2.215	0.6316	2	0	-8.494	3.936
YZ0063	Berberidaceae	Gymnospermium kiangnanense	39.2	0.219	-2.1727	33.1	0.036	-3.8148	56.7	2.079	0.5265	2.6	0	-8.6517	4.143
YZ0064	Ranunculaceae	Halesterpes cymbalaria	2.2	0	-8.6433	32.4	0.042	-3.7205	38.2	0.298	-1.9128	58.4	2.271	0.6571	3.294
YZ0065	Ranunculaceae	Helleborus argutifolius	1.9	0	-8.6372	38.6	0.045	-3.4673	58.7	0.203	-2.1404	36.9	2.299	0.6663	4.833
YZ0066	Ranunculaceae	Helleborus atrorubens	1.8	0	-8.7848	48.4	0.036	-3.6909	57.1	0.149	-2.4613	31.6	2.236	0.6188	5.770
YZ0067	Ranunculaceae	Helleborus foetidus	35.6	0.034	-3.7809	1.9	0	-8.6629	36	2.182	0.5952	59.4	0.195	-2.2001	5.058
YZ0068	Ranunculaceae	Helleborus luteus	2	0	-8.7779	5.9	0.188	-2.2614	35	2.199	0.6125	40	0.037	-3.7075	5.578
YZ0069	Ranunculaceae	Helleborus torquatus	2	0	-8.7366	49	0.045	-3.4994	57.3	0.188	-2.2392	32.1	2.268	0.6501	6.178
YZ0070	Ranunculaceae	Hepatica henryi	50.9	0.032	-3.8275	39.4	2.202	0.6106	43.3	0.184	-2.429	2.3	0	-8.8819	4.810
YZ0071	Ranunculaceae	Hepatica nobilis var. japonica	2.1	0	-8.9717	33.1	0.028	-4.144	34.4	0.337	-1.7366	55.4	2.297	0.6639	3.248
YZ0073	Papaveraceae	Hypecoum procumbens	6.7	0.006	-5.6404	33.7	0.193	-2.6053	45.3	1.599	0.3823	48.3	2.964	1.0347	2.054
YZ0074	Berberidaceae	Jeffersonia diphylla	41.3	0.401	-1.5459	33.4	0.067	-3.3937	60.9	2.223	0.626	2	0	-9.0424	3.181
YZ0075	Ranunculaceae	Komaroffia diversifolia	3.9	0.002	-6.8099	33.8	0.061	-3.31	39.4	0.435	-1.3086	56.6	2.203	0.6355	4.539
YZ0076	Menispermaceae	Leptopyrum fumarioides	2.3	0	-8.807	39.6	0.065	-3.3028	52.3	0.376	-1.6575	48.3	2.234	0.6564	3.622
YZ0079	Menispermaceae	Menispermum canadense	52.6	2.965	1.0381	19.3	0.307	-1.4335	5.8	0.044	-3.7764	49.9	1.385	0.2362	2.721
YZ0080	Ranunculaceae	Nigella arvensis	41.8	0.03	-3.8593	1.7	0	-8.7215	42.8	2.161	0.5795	48	0.141	-2.5715	4.330
YZ0081	Ranunculaceae	Nigella carpatha	46.3	0.237	-2.1293	41.7	0.038	-3.7757	47.2	2.059	0.5177	2.4	0	-8.9303	5.030
YZ0082	Ranunculaceae	Nigella ciliaris	1.9	0	-8.7214	35.1	0.083	-3.1647	46.6	0.654	-0.8791	56.7	2.277	0.6723	4.281
YZ0083	Ranunculaceae	Nigella damascena	53.8	2.985	1.0504	60.7	1.642	0.4085	26.9	0.658	-0.555	4.2	0.08	-3.312	2.212
YZ0084	Ranunculaceae	Nigella degenii	40.6	0.503	-1.1254	37.7	0.057	-3.4112	51.6	2.201	0.6229	5.4	0.003	-6.5524	4.883
YZ0085	Ranunculaceae	Nigella doerfleri	30.9	0.052	-3.4688	2.1	0	-8.8465	56.4	2.195	0.6109	44.6	0.36	-1.5981	2.625
YZ0086	Ranunculaceae	Nigella elata	52.8	2.073	0.533	35.6	0.038	-3.7947	1.9	0	-8.8638	43.7	0.29	-1.8854	5.184
YZ0087	Ranunculaceae	Nigella fumarifolia	42.8	0.426	-1.3568	33.7	0.061	-3.3395	55.7	2.192	0.6111	2.7	0.001	-8.1436	3.903
YZ0088	Ranunculaceae	Nigella icaica	2	0	-8.7145	38.4	0.048	-3.5786	47.9	0.313	-1.8202	51	2.072	0.5384	4.971
YZ0089	Ranunculaceae	Nigella integrifolia	59.8	2.207	0.6429	38.1	0.49	-1.2193	32.5	0.059	-3.4448	1.2	0	-8.9731	4.114
YZ0090	Ranunculaceae	Nigella orientalis	46	0.52	-1.2174	34.4	0.073	-3.2545	56.9	2.308	0.6883	1.8	0	-8.6365	4.114
YZ0091	Ranunculaceae	Nigella papillosa	53.3	2.128	0.5811	43.4	0.396	-1.4645	35.4	0.052	-3.5083	2.1	0	-8.7441	4.575
YZ0092	Ranunculaceae	Nigella sativa	2.1	0	-8.9931	43.2	0.462	-1.3964	60.3	2.297	0.6724	31.7	0.064	-3.4073	3.575
YZ0093	Ranunculaceae	Nigella stricta	1.9	0	-8.8024	37.8	0.079	-3.1847	47.5	0.515	-1.2169	54.9	2.194	0.6264	3.755
YZ0094	Ranunculaceae	Oxygraphis glacialis	50.7	2.236	0.6346	2.7	0	-8.9349	38.5	0.197	-2.4212	35.3	0.022	-4.2728	3.818
YZ0097	Ranunculaceae	Paraquilegia microphylla	46.3	2.099	0.5444	44.9	0.204	-2.3312	41	0.031	-4.0193	2.8	0	-9.0003	4.410
YZ0098	Menispermaceae	Paratinspora sagittata	3.7	0	-8.9366	41.3	0.024	-4.2198	39	0.213	-2.3237	44.8	2.168	0.6016	4.859
YZ0099	Ranunculaceae	Pulsatilla vulgaris	65.1	0.109	-3.6519	53.7									