

Supplemental Table S4. Completeness evaluation of transcriptome assembly of Ranunculales using BUSCO.

Sample ID	Family	Species	Complete BUSCOs (C)	C (%)	Single-copy BUSCOs (S)	S (%)	Duplicated BUSCOs (D)	D (%)	Fragmented BUSCOs (F)	F (%)	Missing BUSCOs (M)	M (%)
00132	Menispermaceae	Diplocisia affinis	1,431	88.6	1,416	87.7	15	0.9	84	5.2	99	6.2
00210	Menispermaceae	Stephania longa	1,397	86.5	1,382	85.6	15	0.9	99	6.1	118	7.4
00303	Lardizabalaceae	Akebia trifoliata subsp. aus	1,305	80.8	1,282	79.4	23	1.4	129	8	180	11.2
00392	Ranunculaceae	Anemone hupehensis	1,356	84	1,331	82.5	25	1.5	106	6.6	152	9.4
00626	Menispermaceae	Tinospora sagittata	1,278	79.2	1,267	78.5	11	0.7	129	8	207	12.8
00888	Menispermaceae	Tinospora sinensis	1,338	82.9	1,321	81.8	17	1.1	124	7.7	152	9.4
00910	Berberidaceae	Berberis atrocarpa	1,062	65.8	1,029	63.8	33	2	220	13.6	332	20.6
01159	Menispermaceae	Diplocisia glaucescens	1,314	81.5	1,297	80.4	17	1.1	146	9	154	9.5
01205	Berberidaceae	Mahonia bodinieri	1,296	80.3	1,254	77.7	42	2.6	125	7.7	193	12
01207	Ranunculaceae	Clematis apiifolia	1,164	72.2	1,134	70.3	30	1.9	202	12.5	248	15.3
07839	Ranunculaceae	Cimicifuga japonica	1,262	78.2	1,241	76.9	21	1.3	144	8.9	208	12.9
07886	Berberidaceae	Dysosma delavayi	1,314	81.4	1,295	80.2	19	1.2	114	7.1	186	11.5
07887	Ranunculaceae	Beesia calthifolia	1,323	82	1,301	80.6	22	1.4	102	6.3	189	11.7
07897	Berberidaceae	Berberis ziyunensis	1,204	74.6	1,174	72.7	30	1.9	157	9.7	253	15.7
07963	Berberidaceae	Epimedium myrianthum	1,160	71.9	1,144	70.9	16	1	188	11.6	266	16.5
07968	Berberidaceae	Epimedium boreali-guizhou	1,225	75.9	1,205	74.7	20	1.2	155	9.6	234	14.5
07969	Berberidaceae	Epimedium simplicifolium	1,109	68.7	1,090	67.5	19	1.2	197	12.2	308	19.1
07970	Berberidaceae	Epimedium baojingense	1,090	67.6	1,073	66.5	17	1.1	209	12.9	315	19.5
07985	Berberidaceae	Mahonia oiwakensis	1,323	82	1,277	79.1	46	2.9	104	6.4	187	11.6
08000	Berberidaceae	Dysosma difformis	1,376	85.3	1,360	84.3	16	1	97	6	141	8.7
08013	Lardizabalaceae	Stauntonia obovatifoliola s	1,380	85.5	1,350	83.6	30	1.9	91	5.6	143	8.9
08047	Berberidaceae	Berberis cavaleriei	1,307	81	1,275	79	32	2	108	6.7	199	12.3
08059	Ranunculaceae	Clematis puberula var. gan	1,299	80.5	1,276	79.1	23	1.4	104	6.4	211	13.1
08105	Menispermaceae	Stephania epigaea	1,352	83.8	1,330	82.4	22	1.4	95	5.9	167	10.3
08121	Ranunculaceae	Clematis terniflora var. tern	1,386	85.8	1,361	84.3	25	1.5	88	5.5	140	8.7
08177	Berberidaceae	Mahonia eurybracteata	1,409	87.3	1,367	84.7	42	2.6	93	5.8	112	6.9
08256	Ranunculaceae	Anemone vitifolia	1,307	81	1,286	79.7	21	1.3	112	6.9	195	12.1
08260	Berberidaceae	Berberis kunmingensis	1,163	72	1,127	69.8	36	2.2	165	10.2	286	17.8
08514A	Berberidaceae	Epimedium davidii	1,328	82.3	1,249	77.4	79	4.9	132	8.2	154	9.5
08580A	Ranunculaceae	Asteropyrum cavaleriei	1,271	78.8	1,183	73.3	88	5.5	169	10.5	174	10.7
08734A	Berberidaceae	Epimedium leptorrhizum	1,346	83.4	1,312	81.3	34	2.1	110	6.8	158	9.8
08771A	Ranunculaceae	Anemone tomentosa	1,299	80.5	1,247	77.3	52	3.2	121	7.5	194	12
08784	Lardizabalaceae	Holboellia grandiflora	1,205	74.7	1,152	71.4	53	3.3	197	12.2	212	13.1
08889A	Ranunculaceae	Clematis lasiantha	1,304	80.8	1,238	76.7	66	4.1	131	8.1	179	11.1
08891A	Ranunculaceae	Ranunculus ficariifolius	1,355	84	1,341	83.1	14	0.9	127	7.9	132	8.1
08894A	Berberidaceae	Berberis silvicola	1,342	83.1	1,285	79.6	57	3.5	122	7.6	150	9.3
08895A	Berberidaceae	Berberis zanzlanscianensis	1,453	90	1,401	86.8	52	3.2	87	5.4	74	4.6
08914A	Berberidaceae	Berberis liophylla	1,317	81.6	1,262	78.2	55	3.4	141	8.7	156	9.7
08925A	Ranunculaceae	Clematis uncinata	1,349	83.6	1,330	82.4	19	1.2	88	5.5	177	10.9
08928A	Lardizabalaceae	Sinofranchetia chinensis	1,377	85.4	1,355	84.4	22	1.4	80	5	157	9.6
08951A	Berberidaceae	Mahonia decipiens	1,377	85.3	1,338	82.9	39	2.4	87	5.4	150	9.3
09032A	Ranunculaceae	Clematis kweichowensis	1,337	82.8	1,266	77.8	81	5	119	7.4	158	9.8
09154A	Berberidaceae	Mahonia napaulensis	1,339	83	1,302	80.7	37	2.3	114	7.1	161	9.9
09155A	Berberidaceae	Mahonia polyodonta	1,362	84.4	1,326	82.2	36	2.2	106	6.6	146	9
09161A	Berberidaceae	Mahonia shenii	1,359	84.2	1,321	81.8	38	2.4	103	6.4	152	9.4
09265A	Berberidaceae	Mahonia gracilipes	1,409	87.3	1,335	82.7	74	4.6	106	6.6	99	6.1
09334A	Ranunculaceae	Anemone flaccida	1,321	81.9	1,244	77.1	77	4.8	92	5.7	201	12.4
09383	Berberidaceae	Epimedium brachyrrhizum	1,354	83.9	1,330	82.4	24	1.5	95	5.9	165	10.2
09404	Ranunculaceae	Anemone begoniifolia	1,356	84	1,245	77.1	111	6.9	113	7	145	9
09679	Ranunculaceae	Thalictrum przewalskii	1,390	86.1	1,248	77.3	142	8.8	91	5.6	133	8.3
09688	Berberidaceae	Mahonia bracteolata	1,338	82.9	1,289	79.9	49	3	124	7.7	152	9.4
09701	Berberidaceae	Berberis thunbergii	1,324	82	1,267	78.5	57	3.5	127	7.9	163	10.1
09705	Ranunculaceae	Clematis peterae	1,349	83.6	1,318	81.7	31	1.9	114	7.1	151	9.3
09714	Berberidaceae	Berberis sublevis	1,234	76.5	1,173	72.7	61	3.8	178	11	202	12.5
09724	Berberidaceae	Mahonia subimbricata	1,333	82.6	1,261	78.1	72	4.5	129	8	152	9.4
09747	Berberidaceae	Epimedium epsteinii	1,311	81.2	1,293	80.1	18	1.1	127	7.9	176	10.9
09748	Berberidaceae	Epimedium dolichostemon	1,321	81.9	1,302	80.7	19	1.2	109	6.8	184	11.3
09751	Berberidaceae	Epimedium stellulatum	1,360	84.3	1,328	82.3	32	2	104	6.4	150	9.3
09757	Berberidaceae	Berberis integrifolia	1,312	81.2	1,271	78.7	41	2.5	128	7.9	174	10.9
09766	Berberidaceae	Epimedium sagittatum var.	1,378	85.3	1,350	83.6	28	1.7	87	5.4	149	9.3
09767	Berberidaceae	Epimedium chlorandrum	1,367	84.7	1,341	83.1	26	1.6	93	5.8	154	9.5
09772	Berberidaceae	Epimedium fargesii	1,175	72.8	1,145	70.9	30	1.9	192	11.9	247	15.3
09773	Berberidaceae	Epimedium ecalcaratum	1,303	80.7	1,270	78.7	33	2	126	7.8	185	11.5
09823	Papaveraceae	Stylophorum lasiocarpum	1,278	79.2	1,265	78.4	13	0.8	182	11.3	154	9.5
09826	Ranunculaceae	Paonia anomala subsp. v	1,278	79.2	1,214	75.2	64	4	145	9	191	11.8
10378A	Berberidaceae	Mahonia breviracema	1,142	70.8	1,112	68.9	30	1.9	172	10.7	300	18.5
10465A	Papaveraceae	Eomecon chionantha	1,359	84.2	1,333	82.6	26	1.6	96	5.9	159	9.9
10478A	Berberidaceae	Epimedium lishichenii	1,088	67.4	1,076	66.7	12	0.7	238	14.7	288	17.9
10499A	Berberidaceae	Dysosma versipellis	1,470	91.1	1,424	88.2	46	2.9	64	4	80	4.9
10583A	Ranunculaceae	Thalictrum fortunei	1,400	86.7	1,346	83.4	54	3.3	95	5.9	119	7.4
10661A	Lardizabalaceae	Stauntonia brunoniana	1,406	87.1	1,346	83.4	60	3.7	109	6.8	99	6.1
10669A	Ranunculaceae	Thalictrum faberi	1,380	85.5	1,325	82.1	55	3.4	102	6.3	132	8.2
10681A	Ranunculaceae	Aconitum finetianum	1,442	89.3	1,353	83.8	89	5.5	83	5.1	89	5.6
10742A	Lardizabalaceae	Stauntonia chinensis	1,346	83.4	1,259	78	87	5.4	99	6.1	169	10.5
11097A	Ranunculaceae	Aquilegia ecalcarata	1,439	89.1	1,390	86.1	49	3	89	5.5	86	5.4
11110A	Ranunculaceae	Aquilegia yabeana	1,437	89	1,372	85	65	4	89	5.5	88	5.5
11113A	Ranunculaceae	Helleborus thibetanus	1,451	89.9	1,388	86	63	3.9	72	4.5	91	5.6
11140A	Papaveraceae	Meconopsis quintuplinervia	1,242	76.9	1,188	73.6	54	3.3	210	13	162	10.1
11264A	Berberidaceae	Berberis pruinosa	1,342	83.2	1,234	76.5	108	6.7	124	7.7	148	9.1
11296A	Berberidaceae	Berberis lempurgiana	1,198	74.2	1,165	72.2	33	2	176	10.9	240	14.9
11326A	Ranunculaceae	Thalictrum fargesii	1,139	70.6	1,122	69.5	17	1.1	282	17.5	193	11.9
11354B	Lardizabalaceae	Stauntonia yaoshanensis	1,328	82.3	1,299	80.5	29	1.8	100	6.2	186	11.5
11374B	Ranunculaceae	Clematis henryi	1,254	77.7	1,227	76	27	1.7	143	8.9	217	13.4
11522A	Ranunculaceae	Clematis puberula var. ten	1,377	85.3	1,299	80.5	78	4.8	104	6.4	133	8.3
11539A	Ranunculaceae	Thalictrum minus var. hypo	1,369	84.8	1,299	80.5	70	4.3	123	7.6	122	7.6
11578B	Ranunculaceae	Dichocarpum dalzielii	1,320	81.7	1,295	80.2	25	1.5	109	6.8	185	11.5
11648B	Menispermaceae	Pericampylus glaucus	1,387	86	1,352	83.8	35	2.2	93	5.8	134	8.2
12140A	Menispermaceae	Stephania dielsiana	1,368	84.8	1,349	83.6	19	1.2	95	5.9	151	9.3
12225A	Menispermaceae	Cyclea hypoglauc	1,301	80.6	1,282	79.4	19	1.2	128	7.9	185	11.5
12267A	Ranunculaceae	Clematis tinghuensis	1,328	82.3	1,299	80.5	29	1.8	105	6.5	181	11.2
12310A	Ranunculaceae	Coptis chinensis var. brevis	1,442	89.3	1,400	86.7	42	2.6	82	5.1	90	5.6
12517B	Menispermaceae	Stephania hainanensis	1,312	81.3	1,297	80.4	15	0.9	128	7.9	174	10.8
12596A	Ranunculaceae	Clematis aethusifolia	1,407	87.1	1,366	84.6	41	2.5	91	5.6	116	7.3
12597A	Ranunculaceae	Thalictrum petaloideum	1,405	87	1,132	70.1	273	16.9	104	6.4	105	6.6
12603A	Ranunculaceae	Aconitum kusnezoffii	1,484	91.9	1,442	89.3	42	2.6	73	4.5	57	3.6

12619A	Berberidaceae	Berberis amurensis	1,368	84.7	1,329	82.3	39	2.4	131	8.1	115	7.2
12621A	Ranunculaceae	Aconitum barbatum var. pu	1,266	78.5	1,226	76	40	2.5	172	10.7	176	10.8
12623A	Ranunculaceae	Clematis hexapetala	1,385	85.8	1,329	82.3	56	3.5	102	6.3	127	7.9
12652A	Berberidaceae	Berberis poiretii	1,304	80.8	1,264	78.3	40	2.5	170	10.5	140	8.7
12674A	Ranunculaceae	Clematis sibirica var. ochot	1,316	81.5	1,262	78.2	54	3.3	131	8.1	167	10.4
12685A	Ranunculaceae	Anemone cathayensis	992	61.4	932	57.7	60	3.7	276	17.1	346	21.5
12694A	Ranunculaceae	Trollius chinensis	1,498	92.8	1,459	90.4	39	2.4	61	3.8	55	3.4
12695A	Ranunculaceae	Aconitum leucostomum var	1,371	84.9	1,301	80.6	70	4.3	122	7.6	121	7.5
12699A	Papaveraceae	Corydalis speciosa	1,349	83.6	1,270	78.7	79	4.9	138	8.6	127	7.8
12730A	Ranunculaceae	Thalictrum shensiense	1,404	86.9	1,371	84.9	33	2	92	5.7	118	7.4
12731A	Ranunculaceae	Aconitum cannabifolium	1,338	82.9	1,304	80.8	34	2.1	128	7.9	148	9.2
12739A	Papaveraceae	Corydalis ophiocarpa	1,408	87.2	1,358	84.1	50	3.1	98	6.1	108	6.7
12745A	Papaveraceae	Hylomecon japonica	1,434	88.9	1,394	86.4	40	2.5	100	6.2	80	4.9
12746A	Ranunculaceae	Ranunculus chinensis	1,394	86.4	1,356	84	38	2.4	111	6.9	109	6.7
12748A	Ranunculaceae	Clematis shensiensis	1,439	89.2	1,407	87.2	32	2	80	5	95	5.8
12753A	Ranunculaceae	Adonis sutchuenensis	1,283	79.5	1,255	77.8	28	1.7	168	10.4	163	10.1
12754A	Papaveraceae	Stylophorum sutchuenense	1,408	87.3	1,365	84.6	43	2.7	113	7	93	5.7
12779A	Berberidaceae	Berberis feddeana	1,461	90.5	1,414	87.6	47	2.9	81	5	72	4.5
12787A	Papaveraceae	Meconopsis oliveriana	1,334	82.6	1,274	78.9	60	3.7	138	8.6	142	8.8
12794A	Ranunculaceae	Ranunculus petrogeiton	1,433	88.7	1,384	85.7	49	3	94	5.8	87	5.5
12803A	Papaveraceae	Corydalis linarioides	1,399	86.7	1,352	83.8	47	2.9	121	7.5	94	5.8
12807A	Circaeasteraceae	Kingdonia uniflora	1,179	73.1	1,126	69.8	53	3.3	204	12.6	231	14.3
12823A	Papaveraceae	Dicranostigma leptopodium	1,361	84.3	1,293	80.1	68	4.2	128	7.9	125	7.8
12876A	Ranunculaceae	Trollius japonicus	1,336	82.8	1,299	80.5	37	2.3	123	7.6	155	9.6
12909A	Berberidaceae	Berberis wilsoniae	1,427	88.4	1,383	85.7	44	2.7	93	5.8	94	5.8
12919A	Ranunculaceae	Thalictrum delavayi	1,474	91.3	1,424	88.2	50	3.1	81	5	59	3.7
12926A	Ranunculaceae	Thalictrum bouffordii	1,416	87.7	1,382	85.6	34	2.1	94	5.8	104	6.5
12960A	Ranunculaceae	Thalictrum nepalense	1,336	82.8	1,305	80.9	31	1.9	135	8.4	143	8.8
12974A	Ranunculaceae	Caltha scaposa	1,365	84.5	1,316	81.5	49	3	124	7.7	125	7.8
12985A	Ranunculaceae	Thalictrum finetii	1,301	80.6	1,265	78.4	36	2.2	141	8.7	172	10.7
12988A	Ranunculaceae	Batrachium bungei	1,500	93	1,444	89.5	56	3.5	64	4	50	3
12999A	Ranunculaceae	Ranunculus tanguticus	1,304	80.8	1,269	78.6	35	2.2	163	10.1	147	9.1
13004A	Papaveraceae	Corydalis curviflora	1,369	84.8	1,324	82	45	2.8	121	7.5	124	7.7
13008A	Ranunculaceae	Aconitum scaposum	1,392	86.2	1,337	82.8	55	3.4	86	5.3	136	8.5
13009A	Ranunculaceae	Thalictrum uncatum	1,358	84.1	1,319	81.7	39	2.4	108	6.7	148	9.2
13016A	Berberidaceae	Sinopodophyllum hexandri	1,457	90.3	1,419	87.9	38	2.4	71	4.4	86	5.3
13031A	Ranunculaceae	Clematis rehderiana	1,393	86.3	1,352	83.8	41	2.5	91	5.6	130	8.1
13062A	Ranunculaceae	Aconitum gymnantrum	1,285	79.6	1,236	76.6	49	3	159	9.9	170	10.5
13063A	Ranunculaceae	Clematis tangutica	1,358	84.2	1,323	82	35	2.2	120	7.4	136	8.4
13066A	Ranunculaceae	Thalictrum atriplex	1,345	83.4	1,302	80.7	43	2.7	133	8.2	136	8.4
13088A	Ranunculaceae	Aquilegia rockii	1,437	89	1,396	86.5	41	2.5	89	5.5	88	5.5
13089A	Ranunculaceae	Delphinium tatsienense	1,408	87.2	1,356	84	52	3.2	92	5.7	114	7.1
13097A	Ranunculaceae	Cimicifuga foetida var. folio	1,399	86.7	1,364	85.5	35	2.2	94	5.8	121	7.5
13116A	Ranunculaceae	Ranunculus tematus	1,429	88.6	1,389	86.1	40	2.5	76	4.7	109	6.7
13134A	Ranunculaceae	Thalictrum culturatum	1,414	87.6	1,365	84.6	49	3	95	5.9	105	6.5
13137A	Ranunculaceae	Caltha palustris var. barthe	1,334	82.6	1,264	78.3	70	4.3	155	9.6	125	7.8
13139A	Ranunculaceae	Aconitum crassiflorum	1,387	85.9	1,332	82.5	55	3.4	112	6.9	115	7.2
13140A	Ranunculaceae	Aconitum pilopetalum	1,403	86.9	1,353	83.8	50	3.1	91	5.6	120	7.5
13143A	Ranunculaceae	Aconitum brunneum	1,433	88.8	1,381	85.6	52	3.2	90	5.6	91	5.6
13163A	Papaveraceae	Corydalis pseudosibirica	1,430	88.6	1,383	85.7	47	2.9	81	5	103	6.4
13165A	Ranunculaceae	Aconitum pendulum	1,404	87	1,359	84.2	45	2.8	77	4.8	133	8.2
13182A	Papaveraceae	Meconopsis racemosa	1,185	73.4	1,157	71.7	28	1.7	218	13.5	211	13.1
13196A	Papaveraceae	Corydalis pseudotogolens	1,315	81.4	1,266	78.4	49	3	135	8.4	164	10.2
13202A	Ranunculaceae	Thalictrum foetidum	892	55.2	869	53.8	23	1.4	305	18.9	417	25.9
13214A	Papaveraceae	Corydalis adunca	1,445	89.5	1,398	86.6	47	2.9	95	5.9	74	4.6
13216A	Ranunculaceae	Thalictrum smithii	891	55.2	852	52.8	39	2.4	363	22.5	360	22.3
13271A	Berberidaceae	Berberis gyalaca	1,310	81.2	1,270	78.7	40	2.5	142	8.8	162	10
59	Menispermaceae	Stephania kwangsiensis	1,149	71.2	1,132	70.1	17	1.1	164	10.2	301	18.6
BN01259	Menispermaceae	Stephania japonica	1,330	82.4	1,265	78.4	65	4	129	8	155	9.6
BN01422	Menispermaceae	Cocculus laurifolius	1,387	85.9	1,332	82.5	55	3.4	92	5.7	135	8.4
BN01692	Menispermaceae	Fibraurea recisa	1,416	87.7	1,338	82.9	78	4.8	101	6.3	97	6
BN01829	Ranunculaceae	Clematis parviflora	1,441	89.3	1,372	85	69	4.3	80	5	93	5.7
BN01830	Menispermaceae	Arcangelisia gusanlung	1,489	92.3	1,397	86.6	92	5.7	78	4.8	47	2.9
BN01845	Ranunculaceae	Clematis subumbellata	1,329	82.3	1,277	79.1	52	3.2	110	6.8	175	10.9
BN01846	Menispermaceae	Cyclea polypetala	1,389	86.1	1,328	82.3	61	3.8	103	6.4	122	7.5
BN01858	Ranunculaceae	Clematis menglaensis	1,371	85	1,312	81.3	59	3.7	84	5.2	159	9.8
BN01859	Ranunculaceae	Clematis chingii	1,331	82.5	1,268	78.6	63	3.9	105	6.5	178	11
BN01922	Menispermaceae	Eleuthera harhena macrocarpa	1,324	82	1,228	76.1	96	5.9	139	8.6	151	9.4
CC00440A	Ranunculaceae	Pulsatilla chinensis	1,339	83	1,322	81.9	17	1.1	100	6.2	175	10.8
CC00446A	Ranunculaceae	Ranunculus repens	1,314	81.4	1,300	80.5	14	0.9	113	7	187	11.6
CC00479A	Papaveraceae	Dicentra spectabilis	1,307	81	1,281	79.4	26	1.6	134	8.3	173	10.7
CC00494A	Ranunculaceae	Aconitum coreanum	1,290	79.9	1,261	78.1	29	1.8	118	7.3	206	12.8
CC00505A	Ranunculaceae	Pulsatilla cernua	1,304	80.8	1,287	79.7	17	1.1	126	7.8	184	11.4
CD00559	Berberidaceae	Mahonia retinervis	1,369	84.8	1,280	79.3	89	5.5	118	7.3	127	7.9
CQ00662	Papaveraceae	Macleaya cordata	1,451	89.9	1,366	84.6	85	5.3	81	5	82	5.1
CQ00773	Berberidaceae	Berberis virgetorum	1,355	83.9	1,279	79.2	76	4.7	115	7.1	144	9
CQ00776	Berberidaceae	Berberis julianae	1,254	77.7	1,201	74.4	53	3.3	166	10.3	194	12
CQ00784	Ranunculaceae	Aconitum sinomontanum	1,279	79.3	1,247	77.3	32	2	156	9.7	179	11
CQ00787	Papaveraceae	Chelidonium majus	1,350	83.6	1,296	80.3	54	3.3	124	7.7	140	8.7
CQ00790	Ranunculaceae	Coptis chinensis	1,339	82.9	1,290	79.9	49	3	112	6.9	163	10.2
CQ00791	Papaveraceae	Corydalis tomentella	1,441	89.3	1,256	77.8	185	11.5	68	4.2	105	6.5
CQ00838	Papaveraceae	Corydalis sheareri	1,307	80.9	1,282	79.4	25	1.5	151	9.4	156	9.7
CQ00918	Berberidaceae	Berberis gagnepainii	1,250	77.5	1,197	74.2	53	3.3	176	10.9	188	11.6
CQ00921	Papaveraceae	Papaver rhoeas	1,243	77	1,212	75.1	31	1.9	146	9	225	14
CQ00940	Menispermaceae	Cocculus orbiculatus	1,394	86.4	1,375	85.2	19	1.2	93	5.8	127	7.8
CQ00952	Berberidaceae	Epimedium sagittatum	1,263	78.3	1,221	75.7	42	2.6	150	9.3	201	12.4
CQ00966	Ranunculaceae	Semiaquilegia adoxoides	1,314	81.4	1,168	72.4	146	9	145	9	155	9.6
CQ01025	Berberidaceae	Mahonia fordii	1,354	83.9	1,259	78	95	5.9	105	6.5	155	9.6
CQ01036	Berberidaceae	Mahonia sheridaniana	1,353	83.8	1,285	79.6	68	4.2	117	7.2	144	9
CQ01174	Menispermaceae	Stephania cephalantha	1,359	84.2	1,343	83.2	16	1	107	6.6	148	9.2
CS00127	Berberidaceae	Mahonia eurybracteata sut	1,372	85	1,372	82.8	35	2.2	107	6.6	135	8.4
CS00128	Berberidaceae	Berberis soulieana	1,388	86	1,342	83.1	46	2.9	73	4.5	153	9.5
CS00131	Berberidaceae	Mahonia fortunei	1,380	85.5	1,340	83	40	2.5	93	5.8	141	8.7
CS00230	Lardizabalaceae	Akebia quinata	1,360	84.3	1,333	82.6	27	1.7	110	6.8	144	8.9
CS00280	Berberidaceae	Berberis thunbergii 'Atropu	1,376	85.2	1,332	82.5	44	2.7	78	4.8	160	10
EM00020	Lardizabalaceae	Holboellia coriacea	1,375	85.2	1,327	82.2	48	3	100	6.2	139	8.6
EM00036	Papaveraceae	Corydalis edulis	1,266	78.4	1,235	76.5	31	1.9	159	9.9	189	11.7
EM00060	Lardizabalaceae	Akebia trifoliata	1,403	87	1,355	84	48	3	85	5.3	126	7.7
EM00104	Menispermaceae	Sinomenium acutum	1,377	85.3	1,336	82.8	41	2.5	92	5.7	145	9

EM00105	Ranunculaceae	Clematis urophylla	1,453	90	1,392	86.2	61	3.8	52	3.2	109	6.8
EM00109	Berberidaceae	Epimedium acuminatum	1,416	87.8	1,355	84	61	3.8	86	5.3	112	6.9
EM00127	Lardizabalaceae	Decaisnea insignis	1,220	75.5	1,145	70.9	75	4.6	167	10.3	227	14.2
EM00142	Ranunculaceae	Clematis apiifolia var. argei	1,360	84.2	1,321	81.8	39	2.4	99	6.1	155	9.7
EM00156	Menispermaceae	Stephania tetrandra	1,292	80.1	1,202	74.5	90	5.6	155	9.6	167	10.3
EM00195	Menispermaceae	Tinospora sagittata var. cre	1,418	87.9	1,397	86.6	21	1.3	87	5.4	109	6.7
EM00204	Ranunculaceae	Clematis finetiana	1,238	76.7	1,195	74	43	2.7	150	9.3	226	14
EM00218	Ranunculaceae	Thalictrum ramosum	1,255	77.8	1,157	71.7	98	6.1	145	9	214	13.2
EM00244	Ranunculaceae	Ranunculus sieboldii	1,134	70.3	1,105	68.5	29	1.8	191	11.8	289	17.9
EM00268	Menispermaceae	Cyclea racemosa	1,367	84.7	1,340	83	27	1.7	120	7.4	127	7.9
HH00984A	Ranunculaceae	Aconitum monanthum	1,232	76.4	1,176	72.9	56	3.5	196	12.1	186	11.5
HH00994A	Ranunculaceae	Clematis fruticosa	1,299	80.4	1,237	76.6	62	3.8	136	8.4	179	11.2
HH01018A	Ranunculaceae	Caltha palustris	1,330	82.4	1,253	77.6	77	4.8	141	8.7	143	8.9
HRB0047B	Ranunculaceae	Clematis brevicaudata	1,491	92.4	1,422	88.1	69	4.3	53	3.3	70	4.3
HRB0063B	Ranunculaceae	Clematis manshurica	973	60.3	925	57.3	48	3	291	18	350	21.7
HRB0111B	Berberidaceae	Berberis ferdinandi-coburgi	1,185	73.4	1,132	70.1	53	3.3	219	13.6	210	13
HRB0204B	Ranunculaceae	Ranunculus japonicus	1,121	69.5	1,012	62.7	109	6.8	204	12.6	289	17.9
HRB0324B	Berberidaceae	Berberis koreana	1,265	78.4	1,207	74.8	58	3.6	177	11	172	10.6
SY00867A	Papaveraceae	Argemone mexicana	1,395	86.4	1,332	82.5	63	3.9	103	6.4	116	7.2
SY00890A	Ranunculaceae	Thalictrum minus	1,356	84	1,308	81	48	3	153	9.5	105	6.5
SY00927A	Lardizabalaceae	Stauntonia leucantha	1,447	89.6	1,372	85	75	4.6	79	4.9	88	5.5
TLF00928	Ranunculaceae	Clematis orientalis	1,302	80.7	1,222	75.7	80	5	117	7.2	195	12.1
TLF01005	Ranunculaceae	Clematis songorica	1,403	86.9	1,324	82	79	4.9	86	5.3	125	7.8
TLF01018	Berberidaceae	Berberis nummularia	1,370	84.8	1,279	79.2	91	5.6	115	7.1	129	8.1
XA00077	Berberidaceae	Nandina domestica var.leu	1,375	85.2	1,291	80	84	5.2	121	7.5	118	7.3
XA00103	Berberidaceae	Mahonia bealei	1,347	83.4	1,266	78.4	81	5	119	7.4	148	9.2
XA00201	Berberidaceae	Epimedium brevicornu	1,418	87.8	1,327	82.2	91	5.6	97	6	99	6.2
XA00224	Berberidaceae	Nandina domestica	1,369	84.8	1,280	79.3	89	5.5	127	7.9	118	7.3
XA00244	Ranunculaceae	Aconitum carmichaelii	1,394	86.4	1,339	83	55	3.4	119	7.4	101	6.2
XA00278	Papaveraceae	Macleaya microcarpa	1,466	90.9	1,415	87.7	51	3.2	64	4	84	5.1
XA00290	Ranunculaceae	Clematis heracleifolia	1,411	87.4	1,362	84.4	49	3	92	5.7	111	6.9
XA00577	Eupteleaceae	Euptelea pleiosperma	1,400	86.7	1,361	84.3	39	2.4	105	6.5	109	6.8
XY00762	Menispermaceae	Menispermum dauricum	1,368	84.7	1,303	80.7	65	4	114	7.1	132	8.2
YZ0002	Ranunculaceae	Aconitella aconitii	1,191	73.8	651	40.3	540	33.5	179	11.1	244	15.1
YZ0005	Ranunculaceae	Actaea mairei	929	57.6	658	40.8	271	16.8	264	16.4	421	26
YZ0007	Ranunculaceae	Actaea vaginata	1,182	73.2	799	49.5	383	23.7	189	11.7	243	15.1
YZ0008	Ranunculaceae	Adonis amurensis	1,308	81.1	800	49.6	508	31.5	141	8.7	165	10.2
YZ0009	Ranunculaceae	Adonis sibirica	1,019	63.1	644	39.9	375	23.2	218	13.5	377	23.4
YZ0010	Ranunculaceae	Anemoclema glaucifolium	1,339	82.9	827	51.2	512	31.7	160	9.9	115	7.2
YZ0011	Ranunculaceae	Anemone patens	1,329	82.3	1,308	81	21	1.3	133	8.2	152	9.5
YZ0012	Ranunculaceae	Aquilegia coerulea	1,509	93.5	939	58.2	570	35.3	55	3.4	50	3.1
YZ0013	Ranunculaceae	Asteropyrum peltatum	1,305	80.9	834	51.7	471	29.2	147	9.1	162	10
YZ0014	Berberidaceae	Berberis aquifolium	1,269	78.6	699	43.3	570	35.3	168	10.4	177	11
YZ0016	Berberidaceae	Berberis shensiana	1,349	83.5	530	32.8	819	50.7	146	9	119	7.5
YZ0017	Ranunculaceae	Callianthemum alatavicum	1,296	80.3	821	50.9	475	29.4	124	7.7	194	12
YZ0018	Ranunculaceae	Callianthemum taipaicum	1,107	68.6	662	41	445	27.6	204	12.6	303	18.8
YZ0019	Papaveraceae	Capnoides sempervirens	928	57.5	753	46.7	175	10.8	360	22.3	326	20.2
YZ0020	Circaeasteraceae	Circaeaster agrestis	1,300	80.5	649	40.2	651	40.3	144	8.9	170	10.6
YZ0021	Menispermaceae	Cissampelos mucronata	1,410	87.4	824	51.1	586	36.3	102	6.3	102	6.3
YZ0022	Ranunculaceae	Clematis lanuginosa	1,003	62.2	981	60.8	22	1.4	262	16.2	349	21.6
YZ0023	Ranunculaceae	Clematis patens	1,501	93	811	50.2	690	42.8	44	2.7	69	4.3
YZ0025	Menispermaceae	Cocculus trilobus	1,474	91.3	734	45.5	740	45.8	86	5.3	54	3.4
YZ0026	Ranunculaceae	Coptis deltoidea	1,444	89.5	779	48.3	665	41.2	99	6.1	71	4.4
YZ0027	Ranunculaceae	Coptis teeta	1,315	81.5	775	48	540	33.5	152	9.4	147	9.1
YZ0030	Papaveraceae	Corydalis cheilanthisfolia	1,292	80.1	857	53.1	435	27	153	9.5	169	10.4
YZ0035	Papaveraceae	Corydalis yanhusuo	1,280	79.3	634	39.3	646	40	136	8.4	198	12.3
YZ0038	Papaveraceae	Dactylicapnos scandens	1,392	86.3	813	50.4	579	35.9	107	6.6	115	7.1
YZ0039	Papaveraceae	Dactylicapnos torulosa	1,282	79.4	1,253	77.6	29	1.8	173	10.7	159	9.9
YZ0041	Ranunculaceae	Delphinium cardinale	1,360	84.3	1,323	82	37	2.3	110	6.8	144	8.9
YZ0042	Ranunculaceae	Delphinium elatum	1,230	76.2	616	38.2	614	38	167	10.3	217	13.5
YZ0043	Ranunculaceae	Delphinium grandiflorum va	1,256	77.8	1,215	75.3	41	2.5	153	9.5	205	12.7
YZ0044	Ranunculaceae	Delphinium hybrid cultivar	1,021	63.3	994	61.6	27	1.7	223	13.8	370	22.9
YZ0045	Ranunculaceae	Delphinium nudicaule	1,349	83.6	1,307	81	42	2.6	98	6.1	167	10.3
YZ0046	Papaveraceae	Dendromecon rigida	1,402	86.9	1,233	76.4	169	10.5	135	8.4	77	4.7
YZ0047	Berberidaceae	Diphylleia cymosa	1,266	78.5	855	53	411	25.5	169	10.5	179	11
YZ0048	Berberidaceae	Diphylleia grayi	1,110	68.7	646	40	464	28.7	234	14.5	270	16.8
YZ0049	Berberidaceae	Diphylleia sinensis	1,317	81.6	969	60	348	21.6	140	8.7	157	9.7
YZ0050	Berberidaceae	Dyosma aurantiocaulis	1,053	65.2	772	47.8	281	17.4	247	15.3	314	19.5
YZ0051	Berberidaceae	Dyosma pleiantha	1,247	77.2	890	55.1	357	22.1	180	11.2	187	11.6
YZ0052	Berberidaceae	Dyosma tsayuensis	1,289	79.9	944	58.5	345	21.4	115	7.1	210	13
YZ0054	Berberidaceae	Epimedium koreanum	1,385	85.8	964	59.7	421	26.1	104	6.4	125	7.8
YZ0055	Berberidaceae	Epimedium pseudowushan	814	50.5	655	40.6	159	9.9	327	20.3	473	29.2
YZ0056	Berberidaceae	Epimedium pubescens	997	61.7	761	47.1	236	14.6	327	20.3	290	18
YZ0057	Ranunculaceae	Eranthis hyemalis	1,458	90.4	874	54.2	584	36.2	62	3.8	94	5.8
YZ0058	Papaveraceae	Eschscholzia californica	1,400	86.7	1,372	85	28	1.7	103	6.4	111	6.9
YZ0059	Papaveraceae	Fumaria bracteosa	928	57.5	656	40.6	272	16.9	264	16.4	422	26.1
YZ0060	Ranunculaceae	Garidella nigellastrum	1,346	83.4	1,319	81.7	27	1.7	150	9.3	118	7.3
YZ0061	Ranunculaceae	Garidella unguicularis	1,326	82.1	835	51.7	491	30.4	145	9	143	8.9
YZ0062	Papaveraceae	Glaucium flavum	1,408	87.2	938	58.1	470	29.1	110	6.8	96	6
YZ0063	Berberidaceae	Gymnospermium kiangnan	1,377	85.3	859	53.2	518	32.1	127	7.9	110	6.8
YZ0064	Ranunculaceae	Halerpestes cymbalaria	1,236	76.6	894	55.4	342	21.2	163	10.1	215	13.3
YZ0065	Ranunculaceae	Helleborus argutifolius	1,330	82.4	777	48.1	553	34.3	133	8.2	151	9.4
YZ0066	Ranunculaceae	Helleborus atrorubens	1,378	85.3	698	43.2	680	42.1	101	6.3	135	8.4
YZ0067	Ranunculaceae	Helleborus foetidus	1,322	81.9	781	48.4	541	33.5	124	7.7	168	10.4
YZ0068	Ranunculaceae	Helleborus lividus	1,423	88.2	792	49.1	631	39.1	86	5.3	105	6.5
YZ0069	Ranunculaceae	Helleborus torquatus	1,394	86.4	766	47.5	628	38.9	99	6.1	121	7.5
YZ0070	Ranunculaceae	Hepatica henryi	1,097	67.9	667	41.3	430	26.6	219	13.6	298	18.5
YZ0071	Ranunculaceae	Hepatica nobilis var. japoni	1,047	64.9	779	48.3	268	16.6	194	12	373	23.1
YZ0073	Papaveraceae	Hypecoium procumbens	862	53.4	709	43.9	153	9.5	341	21.1	411	25.5
YZ0074	Berberidaceae	Jeffersonia diphylla	1,284	79.5	883	54.7	401	24.8	133	8.2	197	12.3
YZ0075	Ranunculaceae	Komaroffia diversifolia	1,392	86.2	835	51.7	557	34.5	124	7.7	98	6.1
YZ0076	Ranunculaceae	Leptopyrum fumarioides	1,319	81.7	783	48.5	536	33.2	140	8.7	155	9.6
YZ0079	Menispermaceae	Menispermum canadense	1,485	92	1,443	89.4	42	2.6	75	4.6	54	3.4
YZ0080	Ranunculaceae	Nigella arvensis	1,212	75.1	780	48.3	432	26.8	190	11.8	212	13.1
YZ0081	Ranunculaceae	Nigella carpatha	1,354	83.9	804	49.8	550	34.1	127	7.9	133	8.2
YZ0082	Ranunculaceae	Nigella ciliaris	1,342	83.1	854	52.9	488	30.2	146	9	126	7.9
YZ0083	Ranunculaceae	Nigella damascena	1,429	88.5	1,403	86.9	26	1.6	87	5.4	98	6.1
YZ0084	Ranunculaceae	Nigella degenii	1,361	84.3	852	52.8	509	31.5	133	8.2	120	7.5
YZ0085	Ranunculaceae	Nigella doerfleri	1,128	69.9	803	49.8	325	20.1	225	13.9	261	16.2

YZ0086	Ranunculaceae	<i>Nigella elata</i>	1,416	87.7	859	53.2	557	34.5	103	6.4	95	5.9
YZ0087	Ranunculaceae	<i>Nigella fumariifolia</i>	1,350	83.7	874	54.2	476	29.5	118	7.3	146	9
YZ0088	Ranunculaceae	<i>Nigella icarica</i>	1,371	85	895	55.5	476	29.5	122	7.6	121	7.4
YZ0089	Ranunculaceae	<i>Nigella integrifolia</i>	1,516	93.9	1,162	72	354	21.9	60	3.7	38	2.4
YZ0090	Ranunculaceae	<i>Nigella orientalis</i>	1,264	78.3	825	51.1	439	27.2	197	12.2	153	9.5
YZ0091	Ranunculaceae	<i>Nigella papillosa</i>	1,369	84.8	855	53	514	31.8	135	8.4	110	6.8
YZ0092	Ranunculaceae	<i>Nigella sativa</i>	1,017	63	730	45.2	287	17.8	275	17	322	20
YZ0093	Ranunculaceae	<i>Nigella stricta</i>	1,319	81.7	911	56.4	408	25.3	157	9.7	138	8.6
YZ0094	Ranunculaceae	<i>Oxygraphis glacialis</i>	1,209	74.9	781	48.4	428	26.5	184	11.4	221	13.7
YZ0097	Ranunculaceae	<i>Paraquilegia microphylla</i>	1,250	77.4	754	46.7	496	30.7	189	11.7	175	10.9
YZ0098	Menispermaceae	<i>Paratinospora sagittata</i>	1,379	85.5	760	47.1	619	38.4	128	7.9	107	6.6
YZ0099	Ranunculaceae	<i>Pulsatilla vulgaris</i>	831	51.4	551	34.1	280	17.3	320	19.8	463	28.8
YZ0102	Ranunculaceae	<i>Ranunculus brotherusii</i>	1,191	73.8	630	39	561	34.8	244	15.1	179	11.1
YZ0104	Ranunculaceae	<i>Ranunculus cantoniensis</i>	1,175	72.8	846	52.4	329	20.4	276	17.1	163	10.1
YZ0105	Ranunculaceae	<i>Ranunculus carpaticola</i>	823	51	580	35.9	243	15.1	383	23.7	408	25.3
YZ0106	Ranunculaceae	<i>Ranunculus caucasicus</i>	1,140	70.6	1,116	69.1	24	1.5	208	12.9	266	16.5
YZ0107	Ranunculaceae	<i>Ranunculus notabilis</i>	1,230	76.3	1,100	68.2	130	8.1	189	11.7	195	12
YZ0108	Ranunculaceae	<i>Ranunculus sceleratus</i>	1,226	75.9	693	42.9	533	33	241	14.9	147	9.2
YZ0109	Ranunculaceae	<i>Ranunculus trichophyllus</i>	1,432	88.8	582	36.1	850	52.7	102	6.3	80	4.9
YZ0110	Papaveraceae	<i>Roemeria refracta</i>	1,339	82.9	1,321	81.8	18	1.1	132	8.2	143	8.9
YZ0112	Menispermaceae	<i>Stephania yunnanensis</i>	1,394	86.4	958	59.4	436	27	103	6.4	117	7.2
YZ0113	Papaveraceae	<i>Stylophorum diphyllum</i>	864	53.5	538	33.3	326	20.2	339	21	411	25.5
YZ0116	Ranunculaceae	<i>Trollius ranunculoides</i>	1,122	69.5	730	45.2	392	24.3	171	10.6	321	19.9
YZ0117	Ranunculaceae	<i>Urophysa henryi</i>	1,334	82.7	802	49.7	532	33	160	9.9	120	7.4
YZ0118	Ranunculaceae	<i>Urophysa rockii</i>	1,335	82.7	847	52.5	488	30.2	163	10.1	116	7.2
YZ0119	Berberidaceae	<i>Vancouveria hexandra</i>	1,466	90.9	1,289	79.9	177	11	69	4.3	79	4.8
Average			1,312.73	81.33	1163.49	72.08	149.24	9.25	135.62	8.40	165.65	10.27