

**Additional file 2a. List of mitochondrial sequences used for figure 1**

**GenBank Accession Numbers**

<b>Genus</b>	<b><i>atp1</i></b>	<b><i>cob</i></b>	<b><i>cox2</i></b>	<b><i>cox3</i></b>	<b>mt LSU</b>	<b><i>nad1</i></b>
<i>Mahonia</i>	–	AY832081	–	AY832113	–	–
<i>Ranunculus</i>	AF197714	–	–	–	–	AY674761
<i>Platanus</i>	AY009423	AY832084	–	AY832117	–	AY832123
<i>Beta</i>	BA000009	BA000009	BA000009	BA000009	BA000009	BA000009
<i>Daucus</i>	–	–	X63625	–	–	–
<i>Sambucus</i>	AY741813	DQ317064	–	DQ317066	–	–
<i>Nicotiana</i>	BA000042	BA000042	BA000042	BA000042	BA000042	BA000042
<i>Chaerophyllum</i>	–	–	–	–	–	AY283607
<i>Pl. media</i>	AY818938	–	–	–	–	–
<i>Pl. rugelii</i>	AY818939	AY818946	AY818947	–	AY818948	–
<i>Oenothera</i>	X04023	X07126	X00212	X04764	X02559	M63033
<i>Glycine</i>	Z14031	–	X04825	X15131	–	AJ428875
<i>Lupinus</i>	–	–	–	–	–	–
<i>Pisum</i>	D14698	AJ132231	AJ414385	–	–	–
<i>Vicia</i>	–	X07237	–	X51690	–	–
<i>Arabidopsis</i>	Y08502	Y08501	Y08501	Y08502	Y08501	Y08502
<i>Brassica</i>	AP006444	AP006444	AP006444	AP006444	AP006444	AP006444
<i>Hypseocharis</i>	DQ317060	–	–	–	–	–
<i>Geranium</i>	–	–	–	–	–	AF167132
<i>Sarcocaulon</i>	DQ317062	–	–	–	–	AF167133
<i>E. pelargoniflorum</i>	DQ317061	–	–	–	–	–
<i>Pe. hortorum</i>	DQ317063	DQ317065	DQ317069	DQ317067	DQ317059	–
<i>Pe. tongaense</i>	–	–	–	–	–	AF167104
<i>Pe. cotyledonis</i>	–	–	–	–	–	AF256578
<i>Pe. reniforme</i>	–	–	–	DQ317068	–	–

GenBank accession numbers for *cox1* and mt SSU are listed in additional file 2d.

**Additional file 2b. List of chloroplast sequences used for figure 1**

**GenBank Accession Numbers**

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<b>Genus</b>	<b><i>matK</i></b>	<b><i>ndhF</i></b>	<b><i>petD</i></b>	<b><i>rps11</i></b>
<i>Clematis</i>	–	AY145147	–	–
<i>Ranunculus</i>	DQ069586	–	DQ069568	DQ069538
<i>Platanus</i>	AF543747	AY394743	–	–
<i>Spinacia</i>	AJ400848	AJ400848	AJ400848	AJ400848
<i>Panax</i>	AY582139	AY582139	AY582139	AY582139
<i>Nicotiana</i>	Z00044	Z00044	Z00044	Z00044
<i>Pl. rugelii</i>	DQ317070	AY818915	–	–
<i>Oenothera</i>	AJ271079	AJ271079	AJ271079	AJ271079
<i>Lotus</i>	AP002983	AP002983	AP002983	AP002983
<i>Pisum</i>	AY386961	–	AF153442	–
<i>Vicia</i>	–	X14804	–	–
<i>Vigna</i>	–	–	–	AF536226
<i>Arabidopsis</i>	AP000423	AP000423	AP000423	AP000423
<i>Brassica</i>	AY541618	AF064647	–	–
<i>Pe. hortorum</i>	DQ317071	DQ317072	DQ317073	DQ317074

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GenBank accession numbers for *rbcL* are listed in additional file 2d.

**Additional file 2c. List of nuclear sequences used for figure 1**

**GenBank Accession Numbers**

<b>Genus</b>	<b><i>aco</i></b>	<b><i>acs</i></b>	<b><i>etr</i></b>
<i>Delphinium</i>	–	–	AB201245
<i>Dianthus</i>	L35152	–	AB035806
<i>Rumex</i>	Y10034	AF038945	–
<i>Helianthus1</i>	U62553	–	–
<i>Helianthus2</i>	U62554	–	–
<i>Lactuca1</i>	–	AF380836	AF350321
<i>Lactuca2</i>	–	AF380837	–
<i>Nicotiana1</i>	AB012857	AJ005002	AF022727
<i>Nicotiana2</i>	X83229	X65982	–
<i>Antirrhinum</i>	–	AF083814	AY159362
<i>Pl. major</i>	AJ843131	–	–
<i>Striga</i>	–	AB072042	–
<i>Glycine</i>	–	X67100	–
<i>Lupinus</i>	–	AF119411	–
<i>Pisum</i>	–	AB049725	–
<i>Trifolium1</i>	AF115262	–	–
<i>Trifolium2</i>	AF115261	–	–
<i>Vigna1</i>	AB002667	Z11613	–
<i>Vigna2</i>	AF315316	–	–
<i>Fagus</i>	–	–	AJ420193
<i>Prunus</i>	–	–	AF124527
<i>Mangifera1</i>	AJ297435	AF170705	AF227742
<i>Mangifera2</i>	AJ505610	U22523	–
<i>Arabidopsis1</i>	NM_100380	NM_116016	NM_105305
<i>Arabidopsis2</i>	NM_101073	–	–
<i>Brassica1</i>	AF252853	X82273	AF047476
<i>Brassica2</i>	X81629	–	–
<i>Carica1</i>	–	U68216	–
<i>Carica2</i>	–	AF178077	–
<i>Pe. hortorum1</i>	U07953	U88971	AF141928
<i>Pe. hortorum2</i>	U19856	U17229	–

Additional file 2d. List of sequences used for figures 2-4

GenBank Accession Numbers

Genus	<i>cox1</i>	mt SSU	<i>atpB</i>	<i>matK</i>	<i>rbcL</i>	nc SSU
<i>Euptelea</i>	AF193963	AF193997	–	–	AY048174	L75831
<i>Ranunculus</i>	DQ317030	AF161093	–	–	L08766	L24092
<i>Grevillea</i>	AF193961	AF193995	–	–	AF197589	AF197577
<i>Platanus</i>	DQ317031	AF161090	–	–	unpublished	U42794
<i>Tetracentron</i>	AF193964	AF193998	–	–	L12668	U42814
<i>Trochodendron</i>	AF020581	AF161092	–	–	L01958	U42816
<i>Buxus</i>	AF193962	AF193996	–	–	AF093717	L54065
<i>Beta</i>	BA000009	AF161094	DQ067451	AY514832	AY270065	AF161096
<i>Plumbago</i>	DQ317032	–	–	–	M77701	U42795
<i>Spinacia</i>	DQ317033	–	–	–	V00168	L24420
<i>Diospyros</i>	AJ223417	–	AF213768	AY145446	L12613	L49279
<i>Symplocos</i>	AJ223435	–	–	–	L12624	U43297
<i>Ilex</i>	AJ223429	–	–	–	AY725859	AF206938
<i>Sambucus</i>	AF193965	AF194000	–	–	AJ420867	AF193941
<i>Nerium</i>	AJ223421	–	–	–	AJ002886	AF107572
<i>Nicotiana</i>	unpublished	AF161095	X61319	Z00044	unpublished	AJ236016
<i>Solanum</i>	X83206	AJ252732	–	–	M76402	X67238
<i>Jasminum</i>	AJ247607	–	–	–	L01929	AJ236035
<i>Lamium</i>	AJ223428	–	–	–	Z37399	L49287
<i>Sesamum</i>	AJ247598	–	AJ236176	AJ429340	L14408	AJ236041
<i>Epifagus</i>	–	U82642	–	–	–	–
<i>Digitalis</i>	AJ223415	AF193999	–	–	X83720	AF193940
<i>Veronica</i>	AJ223427	AY818950	–	–	AJ247611	AF207052
<i>Pl. atrata</i>	AJ389610	AJ389618	–	–	AJ389601	–
<i>Pl. lanceolata</i>	AJ389611	AJ389619	–	–	L36454	AJ236046
<i>Pl. sempervirens</i>	AJ389612	AJ389620	–	–	AJ389602	–
<i>Pl. sericea</i>	AJ389613	AJ389621	–	–	AJ389603	–
<i>Pl. coronopus</i>	AJ389609	AJ389617	–	–	AJ389600	–
<i>Pl. media</i>	AJ389605	AJ389614	–	–	AJ389596	–
<i>Pl. australis</i>	AJ389608	AY818949	–	–	AJ389599	–
<i>Pl. rigida</i>	AJ389607	AJ389616	–	–	AJ389598	–
<i>Pl. rugelii</i>	AJ389606	AJ389615	–	–	AJ389597	AY818951
<i>Oenothera</i>	X05465	X61277	AJ271079	AJ271079	Werman et al.	U67930
<i>Malpighia</i>	AJ223433	–	AJ235527	AF344561	AJ247619	L24046
<i>Populus</i>	U77623	–	AF209658	AJ506088	AF206812	AF206999
<i>Maytenus</i>	–	AY855839	–	–	–	–
<i>Cucumis</i>	AJ223416	AY258278	AJ970307	AJ970307	AF206755	AF206894
<i>Glycine</i>	M16884	M16859	–	AF142700	Z95552	X02623
<i>Pisum</i>	X14409	–	X03852	AY386961	X03853	U43011
<i>Lupinus</i>	–	Z11512	–	–	–	–
<i>Betula</i>	U77620	–	AJ235411	AY372022	X56617	L00971
<i>Rhamnus</i>	AJ223422	–	AJ235579	AY257533	L13189	AJ235979
<i>Arabidopsis</i>	Y08501	Y08501	AP000423	AP000423	unpublished	X16077
<i>Brassica</i>	AP006444	AP006444	AF267641	AY54161	M88342	–
<i>Raphanus</i>	–	–	–	–	–	unpublished
<i>Bursera</i>	AJ223412	–	AF035899	–	L01890	AF206877
<i>Cytinus</i>	–	U82639	–	–	–	–

<i>Crossosoma</i>	DQ317034	AF194001	AF209571	–	L11179	AF193942
<i>Hypseocharis</i>	AF193967	AF194002	–	–	DQ317048	DQ317014
<i>G. grandiflorum</i>	AF193968	AF194003	–	–	L01920	AF193943
<i>G. macrorrhizum</i>	DQ317035	DQ317028	–	–	DQ317049	DQ317015
<i>Monsonia</i>	DQ317036	DQ317029	AF209632	–	L14701	DQ317016
<i>Sarcocaulon</i>	DQ317037	DQ317004	–	–	L14705	DQ317017
<i>E. chrysanthum</i>	DQ317038	DQ317005	–	–	DQ317050	DQ317018
<i>E. pelargoniflorum</i>	DQ317039	DQ317006	–	–	DQ317051	DQ317019
<i>E. trifolium</i>	DQ317040	DQ317007	–	–	DQ317052	DQ317020
<i>Pe. cotyledonis</i>	DQ317041	DQ317008	AF035911	–	DQ317053	DQ317021
<i>Pe. reniforme</i>	DQ317042	DQ317009	–	–	DQ317054	DQ317022
<i>Pe. capitatum</i>	DQ317043	DQ317010	–	–	L14702	DQ317023
<i>Pe. candicans</i>	DQ317044	DQ317011	–	–	DQ317055	DQ317024
<i>Pe. quercetorum</i>	DQ317045	–	–	–	DQ317056	DQ317025
<i>Pe. alchemilloides</i>	DQ317046	DQ317012	–	–	DQ317057	DQ317026
<i>Pe. hortorum</i>	DQ317047	DQ317013	–	DQ317071	DQ317058	DQ317027

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