

PLASTID SEQUENCES PROPOSED AS PART OF ANGIOSPERM ATOL PROJECT

The genera listed below in black have been selected for plastid genome sequencing. Sources of tissue have been identified for nearly all samples; leads are being followed for the remaining few. Genera listed in blue will be sequenced if funds become available, either because JGI's costs are reduced or additional funding is received from other sources. Pink indicates first 10 priority taxa. Between this list and the list that follows, plastid sequences available or in progress to date, all major lineages of angiosperms will be represented along with all possible gymnosperm outgroups.

Genus	Clade
<i>Myristica</i>	Magnoliales
<i>Canella</i>	Canellales
<i>Saruma</i>	Piperales
<i>Chloranthus</i>	Chloranthaceae
<i>Eschscholzia</i>	Ranunculales
<i>Sabia</i>	Sabiaceae
<i>Nelumbo</i>	Proteaceae/Proteales
<i>Platanus</i>	Proteaceae/Proteales
<i>Buxus</i>	Buxaceae
<i>Gunnera</i>	Gunneraceae/Gunnerales
<i>Aextoxicon</i>	"Berberidopsidales"
<i>Ximenia</i>	Santalales
<i>Plumbago</i>	Caryophyllales/Polygonales
<i>Liquidambar</i>	Saxifragales
<i>Heuchera</i>	Saxifragales
<i>Dillenia</i>	Dilleniaceae
<i>Staphylea</i>	Crossosomatales
<i>Vitis</i>	Vitaceae
<i>Hua</i>	Huaceae
<i>Spiraea</i>	Rosales
<i>Quercus</i>	Fagales
<i>Cucumis</i>	Cucurbitales
<i>Euonymus</i>	Celastrales
<i>Krameria</i>	Krameriaceae
<i>Oxalis</i>	Oxalidales
<i>Gossypium</i>	Malvales
<i>Citrus</i>	Sapindales
<i>Cornus</i>	Cornales
<i>Gilia</i>	Ericales
<i>Lonicera</i>	Dipsacales
<i>Ilex</i>	Aquifoliales

<i>Garrya</i>	Garryales
<i>Ehretia</i>	Boraginaceae
<i>Antirrhinum</i>	Lamiales
<i>Syringa</i>	Lamiales
<i>Nerium</i>	Gentianales
<i>Manihot</i>	Malpighiales
<i>Picramnia</i>	Picramniaceae

Plastid Genomes Sequenced by Others in Ongoing Projects or Available in GenBank

Genus	Clade	GenBank / Lab PI
<i>Cycas</i>	cycads	L. Raubeson
<i>Zamia</i>	cycads	L. Raubeson
<i>Stangeria</i>	cycads	L. Raubeson
<i>Ginkgo</i>	Ginkgo	L. Raubeson
<i>Pinus (2 species)</i>	conifers	GenBank
<i>Podocarpus</i>	conifers	L. Raubeson
<i>Sciadopitys</i>	conifers	L. Raubeson
<i>Sequoia</i>	conifers	L. Raubeson
<i>Taxus</i>	conifers	L. Raubeson
<i>Thuja</i>	conifers	L. Raubeson
<i>Torreya</i>	conifers	L. Raubeson
<i>Phyllocladus</i>	conifers	L. Raubeson
<i>Taiwania</i>	conifers	L. Raubeson
<i>Araucaria</i>	conifers	L. Raubeson
<i>Cedrus</i>	conifers	L. Raubeson
<i>Cephalotaxus</i>	conifers	L. Raubeson
<i>Cryptomeria</i>	conifers	L. Raubeson
<i>Ephedra</i>	gnetophytes	L. Raubeson
<i>Gnetum</i>	gnetophytes	L. Raubeson
<i>Welwitschia</i>	gnetophytes	L. Raubeson
<i>Amborella</i>	Amborellaceae	GenBank
<i>Nuphar</i>	Nymphaeaceae	R. Jansen
<i>Austrobaileya</i>	Austrobaileyales	R. Jansen
<i>Kadsura</i>	Austrobaileyales	V. Goremykin
<i>Ceratophyllum</i>	Ceratophyllaceae	V. Goremykin
<i>Magnolia</i>	Magnoliales	V. Goremykin
<i>Persea</i>	Lurales	R. Jansen
<i>Calycanthus</i>	Lurales	GenBank
<i>Piper</i>	Piperales	V. Goremykin
<i>Drimys</i>	Canellales	V. Goremykin
<i>Ranunculus</i>	Ranunculales	L. Raubeson

<i>Trochodendron</i>	Trochodendraceae	R. Jansen
<i>Acorus</i>	monocots	R. Jansen
<i>Yucca</i>	monocots	C. dePamphilis
<i>Dioscorea</i>	monocots	R. Jansen
<i>Typha</i>	monocots	R. Jansen
<i>Elaeis</i>	monocots	C. dePamphilis
<i>Musa</i>	monocots	C. dePamphilis
<i>Oryza</i>	monocots	GenBank
<i>Zea</i>	monocots	GenBank
<i>Triticum</i>	monocots	GenBank
<i>Pandanus</i>	monocots	V. Goremykin
<i>Tofieldia</i>	monocots	V. Goremykin
<i>Cocos</i>	monocots	V. Goremykin
<i>Pelargonium</i>	Geraniales	R. Jansen
<i>Erodium</i>	Geraniales	R. Jansen
<i>Arabidopsis</i>	Brassicales	GenBank
<i>Oenothera</i>	Myrtales	GenBank
<i>Lotus</i>	Fabales	GenBank
<i>Medicago</i>	Fabales	GenBank
<i>Trifolium</i>	Fabales	R. Jansen
<i>Salix</i>	Malpighiales	JGI
<i>Spinacia</i>	Caryophyllales	GenBank
<i>Foeniculum</i>	Apiales	L. Raubeson
<i>Daucus</i>	Apiales	L. Raubeson
<i>Coriandrum</i>	Apiales	L. Raubeson
<i>Campanula</i>	Asterales	R. Jansen
<i>Scaevola</i>	Asterales	R. Jansen
<i>Nicotiana</i>	Solanales	GenBank
<i>Atropa</i>	Solanales	GenBank