

**S1 Table. GenBank accession numbers of the cp genomes used in this study.**

Order	No.	Family	Taxon	GenBank Accession number	
	1	Berberidaceae	<i>Nandiana domestica</i>	DQ_923117	
	2	Berberidaceae	<i>Berberis bealei</i>	NC_022457	
	3	Menispermaceae	<i>Stephania japonica</i>	NC_029432.1	
	4	Lardizabalaceae	<i>Akebia trifoliata</i>	NC_029427.1	
	5	Lardizabalaceae	<i>Akebia quinata</i>	NC_033913.1	
	6	Eupteleaceae	<i>Euptelea pleiosperma</i>	NC_029429.1	
	7	Papaveraceae	<i>Coreanomecon hylomeconoides</i>	NC_031446.1	
	8	Papaveraceae	<i>Papaver somniferum</i>	NC_029434.1	
	9		<i>Megaleranthis saniculifolia</i>	NC_012615	
	10		<i>Thalictrum coreanum</i>	NC_026103	
	11		<i>Clematis fusca</i> var. <i>coreana</i>	KM_652489	
	12		<i>Anemone patens</i>	KR_297058	
	13		<i>puldatilla vernalis</i>	KR_297061	
	14		<i>Ranunculus macranthus</i>	NC_008796	
	15		<i>Clematis terniflora</i>	NC_028000	
	16		<i>Aconitum barbatum</i> var. <i>puberulum</i>	KC_844054	
Ranunculales	17		<i>Aconitum chiisanense</i>	NC_029829.1	
	18		<i>Aconitum japonicum</i> subsp. <i>napiforme</i>	KT_820670.1	
	19		<i>Aconitum jaluense</i> subsp. <i>jaluense</i>	KT_820669.1	
	20		<i>Aconitum barbatum</i> var. <i>puberulum</i>	KT_964698.1	
	21		<i>Aconitum barbatum</i> var. <i>hispidum</i>	KT_820664.1	
	22	Ranunculaceae	<i>Aconitum monanthum</i>	NC_031423.1	
	23		<i>Aconitum kusnezoffii</i>	NC_031422.1	
	24		<i>Aconitum kusnezoffii</i>	KT_964696.1	
	25		<i>Aconitum coreanum</i>	NC_031421.1	
	26		<i>Aconitum ciliare</i>	NC_031420.1	
	27		<i>Aconitum monanthum</i>	KT_820672.1	
	28		<i>Aconitum jaluense</i> subsp. <i>jaluense</i>	KT_820668.1	
	29		<i>Aconitum ciliare</i>	KT_820666.1	
	30		<i>Aconitum carmichaelii</i>	NC_030761.1	
	31		<i>Aconitum volubile</i>	KU_556690	
	32		<i>Aconitum austrokoreense</i>	KY_407559	
	33		<i>Aconitum pseudolaeve</i>	KY_407562	
	34		<i>Aconitum longecassidatum</i>	KY_407561	
outgroup	asterids	35	Solanaceae	<i>Nicotiana tabacum</i>	NC_001879.2
outgroup	rosids	36	Brassicaceae	<i>Arabidopsis thaliana</i>	AP000423.1