

Supporting Information Table S2: Plant RNase T2 sequences employed in phylogenetic analysis shown in Figure 3.

Sequence ID	Species	Family	Accession number	Source Publication
Ant.hispanicumS3	<i>Antirrhinum hispanicum</i>	Plantaginaceae	AJ315593.1	Vieira et al. (2008)
Ant.mollissSI28	<i>Antirrhinum mollissimum</i>	Plantaginaceae	AJ315591.1	Vieira et al. (2008)
Ant.mollissSI29	<i>Antirrhinum mollissimum</i>	Plantaginaceae	AJ315592.1	Vieira et al. (2008)
MisopatesSC	<i>Misopates orontium</i>	Plantaginaceae	AY013906.1	Vieira et al. (2008)
Ant.hispanicumS5	<i>Antirrhinum hispanicum</i>	Plantaginaceae	X96464.1	Igic and Kohn (2001)
Ant.hispanicumS2	<i>Antirrhinum hispanicum</i>	Plantaginaceae	AJ300474	Igic and Kohn (2001)
Ant.hispanicumS4	<i>Antirrhinum hispanicum</i>	Plantaginaceae	X96466.1	Igic and Kohn (2001)
Pru.aviumS1	<i>Prunus avium</i>	Rosaceae	AB028153.1	Igic and Kohn (2001)
Pru.aviumS2	<i>Prunus avium</i>	Rosaceae	AB010304.1	Igic and Kohn (2001)
Pru.aviumS3	<i>Prunus avium</i>	Rosaceae	AB010306.1	Igic and Kohn (2001)
Pru.aviumS4	<i>Prunus avium</i>	Rosaceae	AB028154.1	Igic and Kohn (2001)
Pru.aviumS6	<i>Prunus avium</i>	Rosaceae	AB010305.1	Igic and Kohn (2001)
Pru.dulcisPD1	<i>Prunus dulcis</i>	Rosaceae	AF227522	Igic and Kohn (2001)
Pru.dulcisPD2	<i>Prunus dulcis</i>	Rosaceae	AF202030	Igic and Kohn (2001)
Pru.dulcisSb	<i>Prunus dulcis</i>	Rosaceae	AF148466.1	Igic and Kohn (2001)
Pru.dulcisSe	<i>Prunus dulcis</i>	Rosaceae	AF177923.1	Vieira et al. (2008)
Pru.salicinaSb	<i>Prunus saliciana</i>	Rosaceae	AB026982	Igic and Kohn (2001)
Pru.saliciSa	<i>Prunus saliciana</i>	Rosaceae	AB026981	Igic and Kohn (2001)
Pyr.pyrifoliaRNase	<i>Pyrus pyrifolia</i>	Rosaceae	D49529	Igic and Kohn (2001)
Pyr.pyrifoliaS1	<i>Pyrus pyrifolia</i>	Rosaceae	AB002139.1	Igic and Kohn (2001)
Pyr.pyrifoliaS3	<i>Pyrus pyrifolia</i>	Rosaceae	AB025421.1	Igic and Kohn (2001)
Pyr.pyrifoliaS4	<i>Pyrus pyrifolia</i>	Rosaceae	AB014072.1	Igic and Kohn (2001)
Pyr.pyrifoliaS5	<i>Pyrus pyrifolia</i>	Rosaceae	AB002141.1	Igic and Kohn (2001)
Pyr.pyrifoliaS6	<i>Pyrus pyrifolia</i>	Rosaceae	AB002142.1	Igic and Kohn (2001)
Sol.chacoenseS11	<i>Solanum chacoense</i>	Solanaceae	S69589	Igic and Kohn (2001)
Sol.chacoenseS12	<i>Solanum chacoense</i>	Solanaceae	AF176533.1	Igic and Kohn (2001)
Sol.chacoenseS14	<i>Solanum chacoense</i>	Solanaceae	AF232304.1	Igic and Kohn (2001)
Tri.aestivum	<i>Triticum aestivum</i>	Poaceae	BF474879	Igic and Kohn (2001)
Vol.carteri	<i>Volvox carteri</i>	Volvocaceae	BAA95359.1	Igic and Kohn (2001)

Zea.mays	<i>Zea mays</i>	Poaceae	AY107592.1	Vieira et al. (2008)
Zea.maysKIN	<i>Zea mays</i>	Poaceae	U66241	Igic and Kohn (2001)
Zin.elegans1	<i>Zinnia elegans</i>	Asteraceae	U19923	Igic and Kohn (2001)
Zin.elegans2	<i>Zinnia elegans</i>	Asteraceae	U19924	Igic and Kohn (2001)
Ara.thalianaRNS1	<i>Arabidopsis thaliana</i>	Brassicaceae	AC004138	Igic and Kohn (2001)
Ara.thalianaRNS2	<i>Arabidopsis thaliana</i>	Brassicaceae	AC003000	Igic and Kohn (2001)
Ara.thalianaRNS3	<i>Arabidopsis thaliana</i>	Brassicaceae	AC006535	Igic and Kohn (2001)
Ara.thalianaRNS4	<i>Arabidopsis thaliana</i>	Brassicaceae	AC007576	Igic and Kohn (2001)
Ara.thalianaRNS5	<i>Arabidopsis thaliana</i>	Brassicaceae	AC007576	Igic and Kohn (2001)
Cal.sepium	<i>Calystegia sepium</i>	Convolvulaceae	AF139660	Igic and Kohn (2001)
Cic.arietinum	<i>Cicer arietinum</i>	Fabaceae	AJ012689	Igic and Kohn (2001)
Gly.max	<i>Glycine max</i>	Fabaceae	BG155668	Igic and Kohn (2001)
Gos.hirsutum	<i>Gossypium hirsutum</i>	Malvaceae	AI729649	Igic and Kohn (2001)
HetermEST	<i>Hedyotis terminalis</i>	Rubiaceae	CB078110.1	Vieira et al. (2008)
Hor.vulgare2	<i>Hordeum vulgare</i>	Poaceae	AF000940	Igic and Kohn (2001)
Hor.vulgare4	<i>Hordeum vulgare</i>	Poaceae	AL506966	Igic and Kohn (2001)
Hor.vulgarersh1	<i>Hordeum vulgare</i>	Poaceae	AF182197	Igic and Kohn (2001)
Hor.vulgareX	<i>Hordeum vulgare</i>	Poaceae	BF623030	Igic and Kohn (2001)
Hor.vulgareZ	<i>Hordeum vulgare</i>	Poaceae	BE060118	Igic and Kohn (2001)
Luf.cylindricaLC1	<i>Luffa cylindrica</i>	Cucurbitaceae	D64012	Igic and Kohn (2001)
Luf.cylindricaLC2	<i>Luffa cylindrica</i>	Cucurbitaceae	D64011	Igic and Kohn (2001)
Lyc.esculentumLE	<i>Lycopersicon esculentum</i>	Solanaceae	X79337	Igic and Kohn (2001)
Lyc.esculentumLX	<i>Lycopersicon esculentum</i>	Solanaceae	AW039494	Igic and Kohn (2001)
Lyc.esculentumRNS2	<i>Lycopersicon esculentum</i>	Solanaceae	AK324819.1	Igic and Kohn (2001)
Lyc.peruvianumS11	<i>Lycium peruvianum</i>	Solanaceae	U28795.1	Igic and Kohn (2001)
Lyc.peruvianumS12	<i>Lycium peruvianum</i>	Solanaceae	U28796.1	Igic and Kohn (2001)
Lyc.peruvianumS3	<i>Lycium peruvianum</i>	Solanaceae	X76065.1	Igic and Kohn (2001)
Mal.domesticaSd	<i>Malus domestica</i>	Rosaceae	AB032246	Igic and Kohn (2001)
Mal.domesticaSe	<i>Malus domestica</i>	Rosaceae	AB035273.1	Igic and Kohn (2001)
Med.truncatula2	<i>Medicago truncatula</i>	Fabaceae	BF645898	Igic and Kohn (2001)
Med.truncatula4	<i>Medicago truncatula</i>	Fabaceae	BG455183	Igic and Kohn (2001)

Med.truncatula5	<i>Medicago truncatula</i>	Fabaceae	BG451455	Igic and Kohn (2001)
N.alataSA2	<i>Nicotiana alata</i>	Solanaceae	U08860.1	Igic and Kohn (2001)
Nel.nucifera	<i>Nelumbo nucifera</i>	Nelumbonaceae	M83668.1	Igic and Kohn (2001)
Nic.alataNE	<i>Nicotiana alata</i>	Solanaceae	U13256.1	Igic and Kohn (2001)
Nic.alataS2	<i>Nicotiana alata</i>	Solanaceae	U08860.1	Igic and Kohn (2001)
Nic.glutinosaNGR2	<i>Nicotiana glutinosa</i>	Solanaceae	AB032256	Igic and Kohn (2001)
Nic.glutinosaNGR3	<i>Nicotiana glutinosa</i>	Solanaceae	AB032257	Igic and Kohn (2001)
Nic.tabacumNK1	<i>Nicotiana tabacum</i>	Solanaceae	AB034638	Igic and Kohn (2001)
Ory.sativa1	<i>Oryza sativa</i>	Poaceae	AB052842	Igic and Kohn (2001)
Ory.sativa2	<i>Oryza sativa</i>	Poaceae	AU091979	Igic and Kohn (2001)
Pin.taeda	<i>Pinus taeda</i>	Pinaceae	BF186081	Igic and Kohn (2001)
Pis.sativumHGRP	<i>Pisum sativum</i>	Fabaceae	Y11824.1	Igic and Kohn (2001)
GmaRNS12	<i>Glycine max</i>	Fabaceae	Glyma03g35230	MacIntosh et al. (2010)
GmaRNS5	<i>Glycine max</i>	Fabaceae	Glyma02g07130	MacIntosh et al. (2010)
GmaRNS4	<i>Glycine max</i>	Fabaceae	Glyma02g07140	MacIntosh et al. (2010)
GmaRNS3	<i>Glycine max</i>	Fabaceae	Glyma02g07150	MacIntosh et al. (2010)
GmaRNS6	<i>Glycine max</i>	Fabaceae	Glyma07g06520	MacIntosh et al. (2010)
GmaRNS2	<i>Glycine max</i>	Fabaceae	Glyma16g03120	MacIntosh et al. (2010)
RnaseLER	<i>Solanum lycopersicum</i>	Solanaceae	CAL64053	MacIntosh et al. (2010)
CAC50874	<i>Antirrhinum hispanicum</i>	Plantaginaceae	CAC50874	MacIntosh et al. (2010)
PtrRNS2	<i>Populus trichocarpa</i>	Betulaceae	XP_002321228	MacIntosh et al. (2010)
Miguf021969m	<i>Mimulus guttatus</i>	Scrophulariaceae	mgf021969m	Phytozome v.5.0
PtrRNS5	<i>Populus trichocarpa</i>	Betulaceae	EEE95823	MacIntosh et al. (2010)