

Supplementary data 1

List of codes used to refer to the RIPs included in the phylogenetic analyses

Code consists of:

1. Five-letter abbreviation identifying the species (composed of the first 3 characters of the genus name followed by the first two characters of the species name). A full list of species (in alphabetical order) is given below.
2. Identifier of the specific type of RIP:
 - A: type 1 RIP
 - AB type 2 RIP
 - aB: type 2 RIP with heavily truncated A chain
 - AC: type 3 RIP (JIP60 homologs)
 - AD: novel type of chimeric RIP found in some grasses
 - B: lectin consisting of B-chain
3. Additional indication(s) to distinguish multiple forms within a single species

List of species for which RIP sequences are included in Figures 1-9

Abrpr: *Abrus precatorius*
Actde: *Actinidia deliciosa*
Adevo: *Adenia volkensis*
Anaco: *Ananas comosus*
Aspof: *Asparagus officinalis*
Aveba: *Avena barbata*
Betvu: *Beta vulgaris*
Bousp: *Bougainvillea spectabilis*
Bradi: *Brachypodium distachyon*
Camsi: *Camellia sinensis*
Cinca: *Cinnamomum camphora*
Cleac: *Clerodendrum aculeatum*
Cucsa: *Cucumis sativus*
Elagu: *Elaeis guineensis*
Escco: *Escherichia coli*
Eupes: *Euphorbia esula*
Eupse: *Euphorbia serrulata*
Gelmo: *Gelonium multiflorum*
Gnege: *Gnetum gnemon*
Goshi: *Gossypium hirsutum*
Gynpe: *Gynostemma pentaphyllum*
Heltu: *Helianthus tuberosus*
Horvu: *Hordeum vulgare*
Iriho: *Iris hollandica*
Jatcu: *Jatropha curcas*
Leyci: *Leymus cinereus* x *Leymus triticoides*
Maldo: *Malus domestica*
Marpo: *Marchantia polymorpha*
Mescr: *Mesembryanthemum crystallinum*
Micmo: *Micromonospora* sp
Mirja: *Mirabilis jalapa*
Momch: *Momordica charantia*
Musam: *Muscari armeniacum*
Ophja: *Ophiogon japonicus*
Orysa: *Oryza sativa*
Pangi: *Panax ginseng*
Panvi: *Panicum virgatum*
Phyam: *Phytolacca americana*
Polmu: *Polygonatum multiflorum*
Poptr: *Populus trichocarpa*
Pruam: *Prunus armeniaca*
Psesp: *Pseudoroegneria spicata*
Ricco: *Ricinus communis*
Ricgr: *Rickettsiella grylli*
Sacof: *Saccharum officinarum*
Samni: *Sambucus nigra*
Sapof: *Saponaria officinalis*
Sorbi: *Sorghum bicolor*

Strco: *Streptomyces coelicolo*

Theca: *Theobroma cacao*

Triae: *Triticum aestivum*

Visal: *Viscum album*

Visco: *Viscum coloratum*

Ximam: *Ximenia americana*

Zeama: *Zea mays*