

Supplementary Table S1. List of plant species used for horizontal transfer investigation.

Species	Family	Citation
<i>Abrus precatorius</i>	Fabaceae	[1]
<i>Aegilops tauschii</i>	Poaceae	[2]
<i>Amborella trichopoda</i>	Amborellaceae	[3]
<i>Ananas comosus</i>	Bromeliaceae	[4]
<i>Arabidopsis lyrata</i>	Brassicaceae	[5]
<i>Arabidopsis thaliana</i>	Brassicaceae	[6]
<i>Arachis duranensis</i>	Fabaceae	[7]
<i>Arachis hypogaea</i>	Fabaceae	[8]
<i>Arachis ipaensis</i>	Fabaceae	[7]
<i>Asparagus officinalis</i>	Asparagaceae	[9]
<i>Beta vulgaris</i>	Chenopodiaceae	[10]
<i>Brachypodium distachyon</i>	Poaceae	[11]
<i>Brassica napus</i>	Brassicaceae	[12]
<i>Brassica oleracea</i>	Brassicaceae	[13]
<i>Brassica rapa</i>	Brassicaceae	[14]
<i>Cajanus cajan</i>	Fabaceae	[15]
<i>Camelina sativa</i>	Brassicaceae	[16]
<i>Camellia sinensis</i>	Theaceae	[17]
<i>Cannabis sativa</i>	Cannabaceae	[18]
<i>Capsella rubella</i>	Brassicaceae	[19]
<i>Capsicum annuum</i>	Solanaceae	[20]
<i>Carica papaya</i>	Caricaceae	[21]
<i>Cerasus x yedoensis</i>	Rosaceae	[22]
<i>Chenopodium quinoa</i>	Amaranthaceae	[23]
<i>Cicer arietinum</i>	Fabaceae	[24]
<i>Citrus clementina</i>	Rutaceae	[25]
<i>Citrus ichangensis</i>	Rutaceae	[26]
<i>Citrus maxima</i>	Rutaceae	[26]
<i>Citrus medica</i>	Rutaceae	[26]
<i>Citrus sinensis</i>	Rutaceae	[27]
<i>Coffea arabica</i>	Rubiaceae	[28]
<i>Coffea eugenoides</i>	Rubiaceae	[28]
<i>Cucumis melo</i>	Cucurbitaceae	[29]
<i>Cucumis sativus</i>	Cucurbitaceae	[30]
<i>Cucurbita maxima</i>	Cucurbitaceae	[31]
<i>Cucurbita moschata</i>	Cucurbitaceae	[31]
<i>Cucurbita pepo</i>	Cucurbitaceae	[32]
<i>Cynara cardunculus</i>	Asteraceae	[33]
<i>Daucus carota</i>	Apiaceae	[34]
<i>Dendrobium catenatum</i>	Orchidaceae	[35]

<i>Dendrobium officinale</i>	Orchidaceae	[36]
<i>Durio zibethinus</i>	Malvaceae	[37]
<i>Elaeis guineensis</i>	Arecaceae	[38]
<i>Erythranthe guttata</i>	Phrymaceae	N/A
<i>Eucalyptus grandis</i>	Myrtaceae	[39]
<i>Eutrema salsugineum</i>	Brassicaceae	[40]
<i>Fragaria iinumae</i>	Rosaceae	[41]
<i>Fragaria nilgerrensis</i>	Rosaceae	[42]
<i>Fragaria nipponica</i>	Rosaceae	[41]
<i>Fragaria nubicola</i>	Rosaceae	[41]
<i>Fragaria orientalis</i>	Rosaceae	[41]
<i>Fragaria vesca</i>	Rosaceae	[43]
<i>Fragaria x ananassa</i>	Rosaceae	[41]
<i>Glycine max</i>	Fabaceae	[44]
<i>Glycine soja</i>	Fabaceae	[45]
<i>Gossypium arboreum</i>	Malvaceae	[46]
<i>Gossypium hirsutum</i>	Malvaceae	[47]
<i>Gossypium raimondi</i>	Malvaceae	[48]
<i>Helianthus annuus</i>	Asteraceae	[49]
<i>Herrania umbratica</i>	Malvaceae	N/A
<i>Hevea brasiliensis</i>	Euphorbiaceae	[50]
<i>Ipomoea nil</i>	Convolvulaceae	[51]
<i>Ipomoea triloba</i>	Convolvulaceae	[52]
<i>Jatropha curcas</i>	Euphorbiaceae	[53]
<i>Juglans regia</i>	Juglandaceae	[54]
<i>Lactuca sativa</i>	Asteraceae	[55]
<i>Lupinus angustifolius</i>	Fabaceae	[56]
<i>Malus baccata</i>	Rosaceae	[57]
<i>Malus domestica</i>	Rosaceae	[58]
<i>Manihot esculenta</i>	Euphorbiaceae	[59]
<i>Medicago truncatula</i>	Fabaceae	[60]
<i>Momordica charantia</i>	Cucurbitaceae	[61]
<i>Morus notabilis</i>	Moraceae	[62]
<i>Musa acuminata</i>	Musaceae	[63]
<i>Muscadinia rotundifolia</i>	Vitaceae	[64]
<i>Nelumbo nucifera</i>	Nelumbonaceae	[63]
<i>Nicotiana attenuata</i>	Solanaceae	[65]
<i>Nicotiana sylvestris</i>	Solanaceae	[66]
<i>Nicotiana tabacum</i>	Solanaceae	[67]
<i>Nicotiana tomentosiformis</i>	Solanaceae	[66]
<i>Nymphaea colorata</i>	Nymphaeaceae	[68]
<i>Olea europaea</i>	Oleaceae	[69]
<i>Oryza brachyantha</i>	Poaceae	[70]

<i>Oryza sativa</i>	Poaceae	[71]
<i>Panicum hallii</i>	Poaceae	[72]
<i>Papaver somniferum</i>	Papaveraceae	[73]
<i>Phalaenopsis equestris</i>	Orchidaceae	[74]
<i>Phaseolus vulgaris</i>	Fabaceae	[75]
<i>Phoenix dactylifera</i>	Arecaceae	[76]
<i>Pistacia vera</i>	Anacardiaceae	[77]
<i>Populus alba</i>	Salicaceae	[78]
<i>Populus euphratica</i>	Salicaceae	[79]
<i>Populus tremula</i>	Salicaceae	[80]
<i>Populus trichocarpa</i>	Salicaceae	[81]
<i>Potentilla micrantha</i>	Rosaceae	[82]
<i>Prosopis alba</i>	Fabaceae	[83]
<i>Prunus armeniaca</i>	Rosaceae	[84]
<i>Prunus avium</i>	Rosaceae	[85]
<i>Prunus domestica</i>	Rosaceae	[86]
<i>Prunus dulcis</i>	Rosaceae	[87]
<i>Prunus ferganensis</i>	Rosaceae	N/A
<i>Prunus mira</i>	Rosaceae	N/A
<i>Prunus mume</i>	Rosaceae	[88]
<i>Prunus persica</i>	Rosaceae	[89]
<i>Prunus salicina</i>	Rosaceae	[90]
<i>Prunus yedoensis</i>	Rosaceae	[91]
<i>Punica granatum</i>	Lythraceae	[92]
<i>Pyrus betulifolia</i>	Rosaceae	[93]
<i>Pyrus bretschneideri</i>	Rosaceae	[94]
<i>Pyrus Communis</i>	Rosaceae	[95]
<i>Pyrus ussuriensis</i>	Rosaceae	[96]
<i>Quercus lobata</i>	Fagaceae	[97]
<i>Quercus suber</i>	Fagaceae	[98]
<i>Raphanus sativus</i>	Brassicaceae	[99]
<i>Rhodamnia argentea</i>	Myrtaceae	N/A
<i>Ricinus communis</i>	Euphorbiaceae	[100]
<i>Rosa chinensis</i>	Rosaceae	[101]
<i>Rosa multiflora</i>	Rosaceae	[102]
<i>Rubus occidentalis</i>	Rosaceae	[103]
<i>Salix viminalis</i>	Salicaceae	[104]
<i>Salix suchowensis</i>	Salicaceae	[105]
<i>Sesamum indicum</i>	Pedaliaceae	[106]
<i>Setaria italica</i>	Poaceae	[107]
<i>Setaria viridis</i>	Poaceae	[108]
<i>Solanum lycopersicum</i>	Solanaceae	[109]
<i>Solanum pennellii</i>	Solanaceae	[110]

<i>Solanum tuberosum</i>	Solanaceae	[111]
<i>Sorghum bicolor</i>	Poaceae	[112]
<i>Spinacia oleracea</i>	Amaranthaceae	[113]
<i>Syzygium oleosum</i>	Myrtaceae	N/A
<i>Tarenaya hassleriana</i>	Cleomaceae	[114]
<i>Theobroma cacao</i>	Malvaceae	[115]
<i>Triticum urartu</i>	Poaceae	[116]
<i>Vigna angularis</i>	Fabaceae	[117]
<i>Vigna radiata</i>	Fabaceae	[118]
<i>Vigna unguiculata</i>	Fabaceae	[119]
<i>Vitis arizonica</i>	Vitaceae	[120]
<i>Vitis riparia</i>	Vitaceae	[121]
<i>Vitis vinifera</i>	Vitaceae	[122]
<i>Zea mays</i>	Poaceae	[123]
<i>Ziziphus jujuba</i>	Rhamnaceae	[124]

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