

Supplement File 7: Gene counts of ML-365 genome shared across other species of plants

Botanical name	Common name	No. of genes shared
<i>Setaria italica</i>	Foxtail millet	1206
<i>Malus domestica</i>	Apple	1085
<i>Phyllostachys heterocycla</i>	Moso bamboo	716
<i>Aegilops tauschii</i>		697
<i>Fragaria vesca</i>	Wild strawberry	694
<i>Sorghum bicolor</i>	sorghum	579
<i>Zea mays</i>	Maize	529
<i>Phoenix dactylifera</i>	Date palm	489
<i>Oryza sativa</i> subsp. Japonica	Rice	483
<i>Oryza punctata</i>	Wild species of rice	381
<i>Oryza barthii</i>	Wild species of rice	362
<i>Jatropha curcas</i>	Jatropha	350
<i>Linum usitatissimum</i>	Flax	327
<i>Musa acuminata</i>	Banana	311
<i>Oryza sativa</i> subsp. indica	Rice	292
<i>Brassica rapa</i>	Rape mustard	270
<i>Cannabis sativa</i>		242
<i>Pyrus bretschneideri</i>	Chinese white pear	235
<i>Triticum urartu</i>		159
<i>Oryza brachyantha</i>	Wild rice species	139
<i>Brachypodium distachyon</i>	Brachypodium	137
<i>Utricularia gibba</i>		135
<i>Vitis vinifera</i>	Grape vine	127
<i>Theobroma cacao</i>	Cacao tree	124
<i>C. cajan</i>	Pigeon pea	76
<i>C. annum</i>	Chilly	65
<i>Gossypium raimondii</i>	Diploid cotton	64
<i>Nelumbo nucifera</i>	Indian lotus	62
<i>Triticum aestivum</i>	Bread wheat	58
<i>Azadirachta indica</i>	Neem	50
<i>Solanum tuberosum</i>	Potato	50
<i>Ricinus communis</i>	Castor	49
<i>Hordeum vulgare</i>	Barley	48
<i>Selaginella moellendorffii</i>	Spike moss	44
<i>Oryza glaberrima</i>	African rice	43
<i>Saccharum officinarum</i>	Sugar cane	42
<i>Arabidopsis lyrata</i>	Arabidopsis	40
<i>Carica papaya</i>	Papaya	33
<i>Artemisia annua</i>	sweet wormwood	29
<i>Glycine max</i>	Soybean	22
<i>Cicer arietinum</i>	Chickpea	21
<i>Picea abies</i>	Norway spruce	21

Thellungiella parvula		20
Medicago truncatula	Medicago	19
Nicotiana tabacum	Tobacco	19
Physcomitrella patens subsp. patens	Moss	17
Solanum lycopersicum	Tomato	14
Arabidopsis thaliana	Arabidopsis	11
Capsella rubella		11
Gossypium hirsutum	Cultivated cotton	10
Aquilegia coerulea		9
Citrullus lanatus	Water melon	9
Helianthus annuus	Sunflower	9
Micromonas sp. RCC299		9
Lactuca sativa	Lettuce	8
Manihot esculenta	Cassava	7
Picea glauca	White spruce	7
Amborella trichopoda		6
Brassica napus	Rapeseed	6
Mimulus guttatus		5
Populus trichocarpa	California poplar	5
Raphanus sativus	Radish	5
Chlorella sp. NC64A		4
Citrus clementina	Clementine	4
Citrus sinensis	Orange	3
Eucalyptus grandis	Eucalyptus	3
Lotus japonicus	Lotus	3
Ostreococcus sp. RCC809		3
Prunus persica	Peach	3
Vigna unguiculata	Cow pea	3
Arachis hypogaea	Pea nut	2
Cucumis sativus	Cucumber	2
Coccomyxa sp. C-169		1
Picea sitchensis	Sitka spruce	1
Volvox carteri	Green algae	1