

Additional file 1: Table S1. The basic information of 50 completely sequenced genomes and related publications

Species	Genome Size (Mb)	Annotated protein	Publication for genome sequencing or annotation
<i>Amaranthus hypochondriacus</i>	377	23,038	Plant Genome. 2016 doi: 10.3835/plantgenome2015.07.0062.
<i>Amborella trichopoda</i>	748	26,846	Science (New York, N.Y.). 2013 Dec 20; 342 6165 1241089
<i>Ananas comosus</i>	382	27,024	Nature genetics. 2015 Dec ; 47 12 1435-42
<i>Arabidopsis lyrata</i>	207	32,670	Nature genetics. 2011 May ; 43 5 476-81
<i>Arabidopsis thaliana</i>	135	27,416	Nucleic Acids Res.36: D1009-14
<i>Brachypodium distachyon</i>	272	26,552	Nature 463, 763-768
<i>Brassica oleracea</i>	630	35,400	Nature communications. 2014 May 23; 5 3930
<i>Brassica rapa</i>	284	26,374	Nat Genet. 2011 Aug 28; 43(10):1035-9
<i>Capsella grandiflora</i>	112.3	24,805	Nature genetics. 2013 Jul ; 45 7 831-5
<i>Capsella rubella</i>	134.8	26,521	Nature genetics. 2013 Jul ; 45 7 831-5
<i>Carica papaya</i>	135	27,332	Nature. 2008 Apr 24; 452 7190 991-6
<i>Chlamydomonas reinhardtii</i>	111.1	17,741	Science (New York, N.Y.). 2007 Oct 12; 318 5848 245-50
<i>Citrus clementina</i>	301.4	24,533	Nature biotechnology. 2014 Jul ; 32 7 656-62
<i>Citrus sinensis</i>	319	25,376	Nature biotechnology. 2014 Jul ; 32 7 656-62
<i>Coccomyxa subellipsoidea C-169</i>	49	9,629	Genome biology. 2012 May 25; 13 5 R39
<i>Cucumis sativus</i>	203	21,491	Nature Genetics 41, 1275 - 1281
<i>Daucus carota</i>	421	32,113	Nature genetics. 2016 Jun ; 48 6 657-66
<i>Eucalyptus grandis</i>	691	36,349	Nature. 2014 Jun 19; 510 7505 356-62
<i>Eutrema salsugineum</i>	243.1	26,351	Frontiers in plant science. 2013 ; 4 46
<i>Fragaria vesca</i>	240	32,831	Nature genetics. 2011 Feb ; 43 2 109-16
<i>Glycine max</i>	975	65,153	Nature 463, 178-183
<i>Gossypium raimondii</i>	761.4	37,505	Nature. 2012 Dec 20; 492 7429 423-7
<i>Linum usitatissimum</i>	318.3	43,471	The Plant journal : for cell and molecular biology. 2012 Nov ; 72 3 461-73
<i>Malus domestica</i>	881	26374	Nat. Genet. 42: 833-9
<i>Manihot esculenta</i>	582.25	33,033	Nature biotechnology. 2016 May ; 34 5 562-70
<i>Medicago truncatula</i>	390	50,894	Nature. 2011 Nov 16; 480 7378 520-4
<i>Micromonas pusilla CCMP1545</i>	22	10,660	Science (New York, N.Y.). 2009 Apr 10; 324 5924 268-72
<i>Micromonas sp. RCC299</i>	20.9	10,056	Science. 2009 Apr 10;324(5924):268-72. doi: 10.1126/science.1167222.
<i>Mimulus guttatus</i>	312.7	28,140	Proc Natl Acad Sci USA 110: 19478-19482.
<i>Musa acuminata</i>	472	36,528	Database : the journal of biological databases and curation. 2013 ; 2013 bat035
<i>Oropetium thomaeum</i>	250	28,446	Nature. 2015 Nov 26; 527 7579 508-11
<i>Oryza sativa</i>	373	55986*	Nucleic Acids Res. 35: D883-7
<i>Ostreococcus lucimarinus</i>	13.2	7,796	Proc Natl Acad Sci USA 2007 104: 7705-7710
<i>Physcomitrella patens</i>	480	32,272	Science 319: 64-9
<i>Populus trichocarpa</i>	403	40,668	Science 313: 1596-604

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Species	Genome Size (Mb)	Annotated protein	Publication for genome sequencing or annotation
<i>Prunus persica</i>	225.7	26,873	Nature genetics. 2013 May ; 45 5 487-94
<i>Ricinius communis</i>	400	31,221	Nat. Biotechnol. 28: 951-956
<i>Selaginella moellendorffii</i>	213	22,273	Science 332: 960-3
<i>Setaria italica</i>	405.7	34,584	Nature biotechnology. 2012 May 13; 30 6 555-61
<i>Solanum lycopersicum</i>	950	34,675	Nature 485:635-41
<i>Solanum tuberosum</i>	~800	35,119	Nature. 2011 Jul 10; 475 7355 189-95
<i>Sorghum bicolor</i>	698	34,496	Nature 457, 551-556
<i>Spirodela polyrhiza</i>	158	19,623	Nature communications. 2014 ; 5 3311
<i>Theobroma cacao</i>	346	29,452	Genome biology. 2013 Jun 03; 14 6 r53
<i>Trifolium pratense</i>	309	40,868	Scientific reports. 2015 Nov 30; 5 17394
<i>Triticum aestivum</i>	1700	99,386	Science (New York, N.Y.). 2014 Jul 18; 345 6194 1251788
<i>Vitis vinifera</i>	487	26,346	Nature 449: 463-7
<i>Volvox carteri</i>	131.2	14,247	Science (New York, N.Y.). 2010 Jul 09; 329 5988 223-6
<i>Zea mays</i>	2300	32540	Science 326: 1112-5
<i>Zostera marina</i>	202.3	20,450	Nature. 2016 Feb 18; 530 7590 331-5