*Aethionema arabicum* https://genomevolution.org/coge/GenomeInfo.pl?gid=36061 (Haudry et al. 2013; Nguyen et al. 2019)

*Arabidopsis thaliana* (AraPort11) <https://www.araport.org> (Cheng et al. 2017)

*Arabis alpina* (v5) <https://www.ncbi.nlm.nih.gov/genome/17813> (Willing et al. 2015)

*Azolla filiculoides* (v1.1) <https://www.fernbase.org> (Li et al. 2018)

*Camelina sativa* (v2) <http://www.camelinadb.ca/downloads.html> (Kagale et al. 2014)

*Cardamine hirsuta* (v1) <http://chi.mpipz.mpg.de/index.html> (Gan et al. 2016)

*Klebsormidium nitens* (formerly K. flaccidum) (v1.0) <http://www.plantmorphogenesis.bio.titech.ac.jp/~algae_genome_project/klebsormidium/index.html> (Hori et al. 2014)

*Leavenworthia alabamica* <https://www.ncbi.nlm.nih.gov/assembly/GCA_000411055.1/> (Haudry et al. 2013)

*Phoenix dactylifera* (PDK20) <http://qatar-weill.cornell.edu/research/research-highlights/date-palm-research-program/date-palm-draft-sequence> (Al-Mssallem et al. 2013)

*Pinus taeda* (pita2.01) <https://treegenesdb.org/FTP/Genomes/Pita/> (Zimin et al. 2014)

*Pohlia nutans* (GenBank TSA) (Liu et al. 2013)

*Salvinia cucullata* (v1.2) <https://www.fernbase.org> (Li et al. 2018)

*Tarenaya hassleriana* (v1) <https://www.ncbi.nlm.nih.gov/assembly/GCF_000463585.1/> (Cheng et al. 2013)

*Thlaspi arvense* (v1.0) <http://pennycress.umn.edu> (Dorn et al. 2015)

https://phytozome.jgi.doe.gov/pz/portal.html (Goodstein et al. 2012)

*Amborella trichopoda* (v1.0) (Amborella Genome 2013)

*Ananas comosus* (v3) (Ming et al. 2015)

*Aquilegia coerulea* (v3.1) (Filiault et al. 2018)

*Arabidopsis lyrata* (v2.1) (Hu et al. 2011)

*Arabidopsis halleri* (v1.1)

*Boechera stricta* (v1.2) (Lee et al. 2017)

*Brassica rapa* (v1.3)

*Capsella rubella* (v1) (Slotte et al. 2013)

*Carica papaya* (v0.4) (Ming et al. 2008)

*Ceratodon purpureus* (R40 transcriptome)

*Citrus sinensis* (v1.1) (Wu et al. 2014)

*Cucumis sativus* (v1.0)

*Daucus carota* (v2.0) (Iorizzo et al. 2016)

*Eucalyptus grandis* (v2.0) (Myburg et al. 2014)

*Eutrema salsugineum* (v1.0) (Yang et al. 2013)

*Fragaria vesca* (v1.1) (Shulaev et al. 2011)

*Gossypium raimondii* (v2.1) (Paterson et al. 2012)

*Marchantia polymorpha* (v3.1) (Bowman et al. 2017)

*Medicago truncatula* (4.0v1) (Young et al. 2011)

*Mimulus guttatus* (v2.0) (Hellsten et al. 2013)

*Oryza sativa* (v7.0) (Ouyang et al. 2007)

*Physcomitrella patens* (v3.3) (Lang et al. 2018)

*Populus trichocarpa* (v3.1) (Tuskan et al. 2006)

*Prunus persica* (v2.1) (Verde et al. 2017)

*Ricinus communis* (v0.1) (Chan et al. 2010)

*Selaginella moellendorffii* (v1.0) (Banks et al. 2011)

*Solanum lycopersicum* (iTAG2.4) (Tomato Genome 2012)

*Sphagnum fallax* (v0.5)

*Theobroma cacao* (v1.1) (Motamayor et al. 2013)

*Vitis vinifera* (Genoscope.12X) (Jaillon et al. 2007)

*Zea mays* (Ensembl-18) (Schnable et al. 2009)

http://www.onekp.com/public\_data.html (<https://db.cngb.org/blast4onekp>) (Johnson et al. 2012; Matasci et al. 2014; Wickett et al. 2014; Xie et al. 2014; One Thousand Plant Transcriptomes 2019)

*Adiantum tenerum* (BMJR)

*Angiopteris evecta* (NHCM)

*Aristolochia elegans* (PAWA)

*Cochlearia officinalis* (CSUV)

*Coleochaete irregularis* (QPDY)

*Coleochaete scutata* (VQBJ)

*Cycas micholitzii* (XZUY)

*Cylindrocystis brebissonii* (YOXI)

*Cylindrocystis cushleckae* (JOJQ)

*Cylindrocystis* sp (VAZE)

*Diphasiastrum digitatum* (WAFT)

*Equisetum hymale* (JVSZ)

*Gyrostemon ramulosus* (UAXP)

*Huperzia squarrosa* (GAON)

*Illicium floridanum* (VZCI)

*Kadsura heteroclite* (NWMY)

*Ludovia* sp (VVVV)

*Lygodium japonicum* (PBUU)

*Megaceros vincentianus* (TCBC)

*Moringa oleifera* (CZPV)

*Nothoceros aenigmaticus* (DXOU)

*Nymphaea* sp (PZRT)

*Persea borbonia* (WIGA)

*Podocarpus rubens* (XLGK)

*Polanisia trachysperma* (QSKP)

*Polypodium glycyrrhiza* (CJNT)

*Polypodium hesperium* (ZRAV)

*Polytrichum commune* (SZYG)

*Porella navicularis* (KRUQ)

*Psilotum nudum* (QVMR)

*Roya obtusa* (XRTZ)

*Salvadora* sp. (RTTY)

*Sceptridium dissectum* (EEAQ)

*Selaginella acanthonota* (ZYCD)

*Takakia lepidozioides* (SKQD)

*Tetrastigma voinierianum* (SZPD)

*Tropaeolum peregrinum* (MYZV)

*Woodsia scopulina* (YJJY)

Floral Genome Project (Jiao et al. 2011)

*Liriodendron tulipifera* (FGP-build3)

*Nuphar advena* (FGP-build3)

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