

Supplementary Table 2: Genome sizes used for the 31-ortholog tree.

Species	Genome Size (Base Pairs)	Source
<i>Thalassiosira pseudonana</i>	3.4E+07	JGI
<i>Cryptosporidium hominis</i>	9.2E+06	NCBI
<i>Plasmodium falciparum</i>	2.3E+07	http://gib.genes.nig.ac.jp/single/main.php?spid=Pfal_3D7
<i>Oryza sativa</i>	3.9E+08	http://www.nature.com/nature/journal/v436/n7052/full/nature03895.html
<i>Arabidopsis thaliana</i>	1.3E+08	Royal Botanic Gardens Kew
<i>Cyanidioschyzon merolae</i>	1.7E+07	Nature. 2004 Apr 8;428(6983):653-7.
<i>Dictyostelium discoideum</i>	3.4E+07	Nature. 2005 May 5; 435(7038): 43–57.
<i>Eremothecium gossypii</i>	9.2E+06	Science. 2004 Apr 9;304(5668):304-7. Epub 2004 Mar 4.
<i>Saccharomyces cerevisiae</i>	1.2E+07	http://www.ensembl.org/Saccharomyces_cerevisiae/index.html
<i>Schizosaccharomyces pombe</i>	1.2E+07	Nature 415, 871-880 (21 February 2002) doi: 10.1038/nature724
<i>Anopheles gambiae</i>	2.2E+08	NCBI
<i>Drosophila melanogaster</i>	1.8E+08	NCBI
<i>Takifugu rubripes</i>	3.9E+08	http://www.ensembl.org/Fugu_rubripes/index.html
<i>Danio rerio</i>	1.7E+09	http://www.ensembl.org/Danio_rerio/index.html
<i>Rattus norvegicus</i>	2.7E+09	http://www.ensembl.org/Rattus_norvegicus/index.html
<i>Mus musculus</i>	2.7E+09	http://www.ensembl.org/Mus_musculus/index.html
<i>Homo sapiens</i>	3.4E+09	http://www.ensembl.org/Homo_sapiens/index.html
<i>Pan troglodytes</i>	2.7E+09	http://www.ensembl.org/Pan_troglodytes/index.html
<i>Gallus gallus</i>	1.1E+09	http://www.ensembl.org/Gallus_gallus/index.html
<i>Caenorhabditis elegans</i>	1.0E+08	http://www.ensembl.org/Caenorhabditis_elegans/index.html
<i>Caenorhabditis briggsae</i>	1.0E+08	NCBI
<i>Leishmania major</i>	3.3E+08	http://www.sanger.ac.uk/Projects/L_major/
<i>Giardia lamblia</i>	1.2E+07	NCBI