

Resource Summary Report

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GeneDB Spombe

RRID:SCR_010639

Type: Tool

Proper Citation

GeneDB Spombe (RRID:SCR_010639)

Resource Information

URL: <http://old.genedb.org/genedb/pombe/index.jsp>

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Description: THIS RESOURCE IS NO LONGER IN SERVICE documented June 6, 2013 Database of all *S. pombe* (fission yeast) known and predicted protein coding genes, pseudogenes, transposons, tRNAs, rRNAs, snRNAs, snoRNAs and other known and predicted non-coding RNAs. Curation of new and existing literature is ongoing and changes are incorporated weekly. User feedback is welcome. The genome of fission yeast (*Schizosaccharomyces pombe*), which contains the smallest number of protein-coding genes yet recorded for a eukaryote: 4,824, has been sequenced and annotated. The centromeres are between 35 and 110 kilobases (kb) and contain related repeats including a highly conserved 1.8-kb element. Regions upstream of genes are longer than in budding yeast (*Saccharomyces cerevisiae*), possibly reflecting more-extended control regions. Some 43% of the genes contain introns, of which there are 4,730. Fifty genes have significant similarity with human disease genes; half of these are cancer related. We identify highly conserved genes important for eukaryotic cell organization including those required for the cytoskeleton, compartmentation, cell-cycle control, proteolysis, protein phosphorylation and RNA splicing. These genes may have originated with the appearance of eukaryotic life. Few similarly conserved genes that are important for multicellular organization were identified, suggesting that the transition from prokaryotes to eukaryotes required more new genes than did the transition from unicellular to multicellular organization.

Abbreviations: GeneDB_Spombe, GeneDB Spombe, GeneDB *S. pombe*

Synonyms: *Schizosaccharomyces pombe* GeneDB, GDB *S. pombe*

Resource Type: data or information resource, database

Defining Citation: [PMID:11859360](#)

Keywords: fission yeast

Funding: Wellcome Trust

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: GeneDB Spombe

Resource ID: SCR_010639

Alternate IDs: nlx_62442

Record Creation Time: 20220129T080259+0000

Record Last Update: 20260801T191001+0000

Ratings and Alerts

No rating or validation information has been found for GeneDB Spombe.

No alerts have been found for GeneDB Spombe.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.