

Anatomy of the Ensembl Fungi homepage

The screenshot shows the Ensembl Fungi homepage with several key features highlighted by numbered annotations:

- 1: Website header** points to the top navigation bar containing the Ensembl Fungi logo, links to HMMER, BLAST, BioMart, Tools, Downloads, Help & Docs, and Blog, a search bar, and a Login/Register button.
- 1a: Ensembl login** points to the Login/Register button in the header.
- 1b: Quick search** points to the search bar in the header.
- 2: Main search box** points to the large search area below the header, which includes a dropdown menu for species (currently set to 'All species'), a search input field, and a 'Go' button. Below the input field, it says 'e.g. NAT2 or alcohol*'. There is also a link to 'View full list of all species'.
- 3: Genome and species directory** points to the 'All genomes' section, which features a dropdown menu to select a species and a list of 'Favourite genomes' with icons and names:
 - Saccharomyces cerevisiae R64-1-1
 - Schizosaccharomyces pombe ASM294v2
 - Aspergillus nidulans ASM1142v1
 - Puccinia graminis ASM14992v1
 - Magnaporthe oryzae MG8
 - Zymoseptoria tritici MG2
- 4: Release highlights** points to the 'What's New in Release 58' section, which lists updates:
 - Genomes: EnsemblFungi has 1505 genomes in total
 - Updated data:
 - Update whole genome alignments
 - Updated annotation of molecular interactions involving fungal genes
 - Updated protein features for all species using InterProScan
 - Updated BioMarts for all gene and variation data
 - Updated pan-taxonomic gene trees and homologies
- 5: Archive sites** points to the 'Archive sites' section, which states: 'The following archive sites are available to access previous versions of data:'
 - Release 56, February 2023 eg56-fungi.ensembl.org
 - Release 52, December 2021 eg52-fungi.ensembl.org

Other visible features include the 'Ensembl Rapid Release' section, which mentions 'New assemblies with gene and protein annotation every two weeks' and provides a 'Go' button, and a link to 'Rapid Release news'.

1: Website header

This section is present on all pages as you navigate around Ensembl Fungi. It contains quick links to commonly used tools, help and documentation pages and download options.

1a: Log into your Ensembl account

This is part of the header. By logging into Ensembl you will be able to save your queries on the Ensembl tools, such as Ensembl's VEP to return to at a later date. You can also upload your own data or custom track hubs to your account. You can also edit which species appear in Section 3 below.

1b: Quick search

This is part of the header. This enables you to quickly search all of Ensembl Fungi from whatever page you are on. You can search for a species, a gene, a region or the help and documentation.

2: Main search box

This enables you to search the whole of Ensembl Fungi, you can specify the species or strain you are interested in from the drop-down menu, or simply search across all species.

3: Genome and species directory

Listed here are the most popular species in Ensembl Fungi. If you create an account with Ensembl Fungi (see Section 1a above), you can edit which species to appear here. You can also click the link 'View full list of all species' to view a table listing all of the genomes available in Ensembl Fungi.

4: Release details

A new version of Ensembl Fungi is released approximately every 3 months. This is where we add new data or update existing data, this section details the highlights of the current release. It is important to know which version you are working with as if you return to Ensembl at a later date the data may have changed.

5: Archive sites

This section lists available Ensembl Fungi web archives frozen in time in case you wanted to go back to previous releases.

Anatomy of the Ensembl Fungi gene page

1: Selected genome

2: Location and feature tabs

3: Tab-specific pages

4: Customisation and download options

5a: Feature overview

5b: Transcript table

6: Main display

The screenshot displays the Ensembl Fungi gene page for *Schizosaccharomyces pombe* (ASM294v2). The gene selected is **yfh7** (SPAC227.14). The page is annotated with numbered callouts:

- 1: Selected genome**: Points to the "Schizosaccharomyces pombe (ASM294v2)" dropdown in the top header.
- 2: Location and feature tabs**: Points to the "Location: 1:520,174-522,766" and "Gene: yfh7" tabs.
- 3: Tab-specific pages**: Points to the left sidebar containing various navigation tabs like Summary, Sequence, Fungal Compara, etc.
- 4: Customisation and download options**: Points to the bottom sidebar with options like "Configure this page", "Custom tracks", "Export data", "Share this page", and "Bookmark this page".
- 5a: Feature overview**: Points to the "Gene: yfh7 SPAC227.14" section, which includes a description, location, and "About this gene" information.
- 5b: Transcript table**: Points to the table showing transcript details for yfh7, including transcript ID, bp, protein, biotype, UniProt, RefSeq, and flags.
- 6: Main display**: Points to the genomic track visualization at the bottom, showing the gene structure and associated features across a 22.59 kb region.

1: Selected genome

This will show the species' binomial Latin name and the strain and/or isolate identifier. Many species have more than one genome assembly. Clicking on this will take you to the information page for the genome assembly.

2: Page tabs

Tabs allow you to see the gene information at different scales and to change between views easily. The 'Gene' tab is selected and highlighted in white and shows specific information about the gene. The 'Location' tab will show the gene information at a larger scale, showing surrounding features in the genome, such as regulatory features and neighbouring genes. The 'Transcript' tab will show you information at a finer scale, specific to gene transcript, such as the cDNA and proteins.

3: Gene-specific pages

This is the left-hand navigation panel for the gene-specific views. Listed here are pages that show gene-specific information grouped by data type. This will stay the same for all gene pages for all genomes, but the selection will be different on the location and transcript tabs.

4: Customisation options

These buttons are present in every tab. The 'Configure this page' button will open a range of options to add data displays to a page, and the options change depending on the tab and page you are on. The 'Custom tracks' button allows you to add tracks from the [Track Hub Registry](#) and your own data to the page you are on. 'Export data' allows you to download the data on the page in a range of different data formats. 'Share this page' will give you a stable URL which will link to the current page, but also include information about any extra data you have added using the Configure this Page or custom tracks options to share with a colleague. 'Bookmark this page' will save this page if you have an Ensembl account.

5: Feature overview including the transcript table

These will be present on all pages in the 'Gene' and 'Transcript' tabs. You can hide or show the transcript table by clicking on the brown button above the table

6: Main display

The main display presents data specific to the chosen page. Toggling between gene-specific pages will update this view.