ZFIN and the Genome Reference Consortium

ZFIN is a member of the Genome Reference Consortium (GRC), an international collaboration consisting of NCBI, the Wellcome Trust Sanger Institute, the McDonnell Genome Institute at Washington University, the European Bioinformatics Institute (EBI) and ZFIN. This consortium is tasked with ensuring that the reference assemblies for human, mouse, zebrafish and chicken are updated and improved through new data and analysis from genome centers and the research community.

The zebrafish specific GRC webpage (see Fig. 1) provides an overview of the zebrafish genome including an ideogram of the latest zebrafish assembly (GRCz11) and alternate loci scaffolds, downloadable build and tiling path files as well as links to genome assembly data and genome regions under review. Zebrafish genome issues (see Fig. 2) can be browsed at the chromosome level, filtered by problem type or status or searched by gene, location, clone name or accession.

If you come across what you suspect is a problem in the build, search the list of genome issues and if it has yet to be reported, select the “Report and Issue” tab in the header (see Fig. 3) to report information about the potential problem in the build. Be as complete as possible and provide location, flanking sequences and a description of the issue. Genome annotators will evaluate the region, determine if an update to the genome is needed and submit data to create a new tiling path to improve the build with an update or “patch”.

Figure 1

![Figure 1](image1.png)

Figure 2

![Figure 2](image2.png)
Figure 3
Report a Genome Problem

If you have found a region of the genome for which there seems to be an error, or a region of variation that needs to be better represented, please provide as much detail as possible in the form below and someone in our group will get back to you as soon as possible. For examples of regions under review, see human, mouse or zebrafish. For issues concerning annotation, please contact your favorite browser or annotation group.

 Genome Information

Please provide us with some information about the organism and genome assembly in which you are interested.

Organism* Zebrfish
Assembly* GRCz11

 Location Information

Please provide more information concerning the location of the issue. You can either provide information using the chromosome coordinates or by specifying the flanking accessions. If the location is unknown or you are reporting sequences not found on the assembly, then select 'None' from the list.

Chromosome

Specify by Chromosome Coordinates

Chromosome start
Chromosome end

Specify by Flanking Accessions

First accession
Last accession

Submitter Information

Please provide some information about yourself.

Email*
Affiliation*
Position*

Issue Detail

Please provide detailed information about the genome issue you are reporting. List any sequence accessions used to define the issue.

Description*