

# Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](http://FDI Lab - SciCrunch.org) on Apr 11, 2025

## Fugu Genome Project

RRID:SCR\_013014

Type: Tool

### Proper Citation

Fugu Genome Project (RRID:SCR\_013014)

### Resource Information

**URL:** <http://www.fugu-sg.org/>

**Proper Citation:** Fugu Genome Project (RRID:SCR\_013014)

**Description:** THIS RESOURCE IS NO LONGER IN SERVICE, documented on August 16, 2019. Fugu genome is among the smallest vertebrate genomes and has proved to be a valuable reference genome for identifying genes and other functional elements such as regulatory elements in the human and other vertebrate genomes, and for understanding the structure and evolution of vertebrate genomes. This site presents version 4 of the Fugu genome, released in October 2004 by the International Fugu Genome Consortium. Fugu rubripes has a very compact genome, with less than 15 consisting of dispersed repetitive sequence, which makes it ideal for gene discovery. A draft sequence of the fugu genome was determined by the International Fugu Genome Consortium in 2002 using the "whole-genome shotgun" sequencing strategy. Fugu is the second vertebrate genome to be sequenced, the first being the human genome. This webpage presents the annotation made on the fourth assembly by the IMCB team using the Ensembl annotation pipeline. We are continuing with the gap filling work and linking of the scaffolds to obtain super-contigs.

**Synonyms:** FGP

**Resource Type:** data or information resource, database

**Keywords:** element, evolution, fish, fugu, functional, gene, genome, human, pufferfish, regulatory, rubripes, structure, vertebrate, bio.tools

**Funding:**

**Availability:** THIS RESOURCE IS NO LONGER IN SERVICE

**Resource Name:** Fugu Genome Project

**Resource ID:** SCR\_013014

**Alternate IDs:** biotools:fugu-sg, nif-0000-20988

**Alternate URLs:** <https://bio.tools/fugu-sg>

**Record Creation Time:** 20220129T080313+0000

**Record Last Update:** 20250410T070324+0000

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## Ratings and Alerts

No rating or validation information has been found for Fugu Genome Project.

No alerts have been found for Fugu Genome Project.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 22 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

Amini-Farsani Z, et al. (2020) The impact of miR-183/182/96 gene regulation on the maturation, survival, and function of photoreceptor cells in the retina. *The Journal of comparative neurology*, 528(9), 1616.

Shakur Ahammad AK, et al. (2019) Multiple transcription factors mediating the expressional regulation of myosin heavy chain gene involved in the indeterminate muscle growth of fish. *Gene*, 687, 308.

Fu X, et al. (2017) Immunoglobulin light chain (IGL) genes in torafugu: Genomic organization and identification of a third teleost IGL isotype. *Scientific reports*, 7, 40416.

Shahjahan M, et al. (2015) Differential expression patterns of PQRamide peptide and its two receptor genes in the brain and pituitary of grass puffer during the reproductive cycle. *General and comparative endocrinology*, 210, 152.

Orosz F, et al. (2015) On the tubulin polymerization promoting proteins of zebrafish. *Biochemical and biophysical research communications*, 457(3), 267.

- Luo J, et al. (2014) Teaching the ABCs of bioinformatics: a brief introduction to the Applied Bioinformatics Course. *Briefings in bioinformatics*, 15(6), 1004.
- Hiller M, et al. (2013) Computational methods to detect conserved non-genic elements in phylogenetically isolated genomes: application to zebrafish. *Nucleic acids research*, 41(15), e151.
- Rakshambikai R, et al. (2012) Repertoire of Protein Kinases Encoded in the Genome of *Takifugu rubripes*. *Comparative and functional genomics*, 2012, 258284.
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- Oba Y, et al. (2011) Purification and characterization of tributyltin-binding protein of tiger puffer, *Takifugu rubripes*. *Comparative biochemistry and physiology. Toxicology & pharmacology : CBP*, 153(1), 17.
- Tognoli C, et al. (2010) Acute stress alters transcript expression pattern and reduces processing of proBDNF to mature BDNF in *Dicentrarchus labrax*. *BMC neuroscience*, 11, 4.
- Zenke K, et al. (2008) Novel *fugu* U6 promoter driven shRNA expression vector for efficient vector based RNAi in fish cell lines. *Biochemical and biophysical research communications*, 371(3), 480.
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- Aihara Y, et al. (2007) Transgenic labeling of taste receptor cells in model fish under the control of the 5'-upstream region of medaka phospholipase C-beta 2 gene. *Gene expression patterns : GEP*, 7(1-2), 149.
- Venkatesh B, et al. (2006) *Fugu* genome does not contain mitochondrial pseudogenes. *Genomics*, 87(2), 307.
- Cockram GP, et al. (2006) Identification and characterization of the DNA-binding properties of a Zhangfei homologue in Japanese pufferfish, *Takifugu rubripes*. *Biochemical and biophysical research communications*, 339(4), 1238.
- Eckert D, et al. (2005) The AP-2 family of transcription factors. *Genome biology*, 6(13), 246.
- Fuchs C, et al. (2005) Duplicated cytoglobin genes in teleost fishes. *Biochemical and biophysical research communications*, 337(1), 216.
- Bekpen C, et al. (2005) The interferon-inducible p47 (IRG) GTPases in vertebrates: loss of the cell autonomous resistance mechanism in the human lineage. *Genome biology*, 6(11),

R92.

Katsu Y, et al. (2004) Molecular cloning of the estrogen and progesterone receptors of the American alligator. *General and comparative endocrinology*, 136(1), 122.