

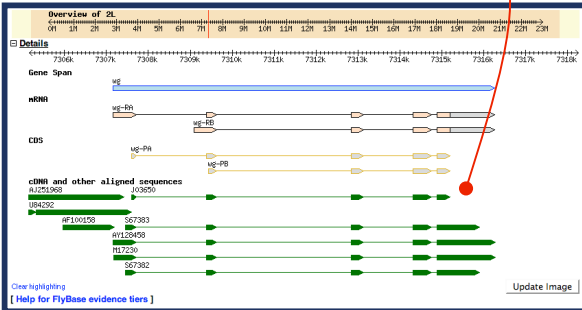
Genomic Data: GBrowse

Customize GBrowse

1. Select tracks of interest: cDNAs, point mutations, RNAi amplicons, etc.
 2. (optional) Configure: label, expand, re-order

e.g. for aligned cDNAs

Update



12 Drosophila genomes

Select species to search against

For all 12 species....Run Blast...Click on "BLAST HIT on Genome Map"....arrive in GBrowse at that exact spot!

Data Downloads

Precomputed files

- NEW "Files Overview"
- Genetic interactions
- FBgn ↔ CG
- 12 Genomes sequence
- Transgenic insertions
- and much much more...

Files Overview

Downloads:

- Precomputed files
- Archived data
- Releases (FTP)
- Genomes (FTP)

Batch Download by ID

Generate custom data files or web page displays:

General Tools:

- Aberration Maps
- Batch Download
- BLAST
- Chromosome Maps
- Coordinate Converter
- CytoSearch
- GBrowse

1. Choose output data type: FASTA, XML, or field data
 2. Choose output options: browser or file
 3. Input FB identifiers: from personal file or query output
 4. Choose fields for display (if applicable)

Batch Download by ID

Output Format: **FASTA Genome Sequence** (Gene region)

Output Options: Reporting XML, As HTML table

Send results to: Browser

Enter List of IDs:

or Upload File of IDs: Choose File

Get FASTA

Thank you to SGD (yeastgenome.org) for inspiring this design

FlyBase is supported by a grant from the National Human Genome Research Institute at the U.S. National Institutes of Health #P41 HG000739. Support is also provided by the British Medical Research Council and the Indiana Genomics Initiative.



A Database of *Drosophila* Genes and Genomes

General Information

Basic searches

Report Pages

Obtaining Fly Reagents

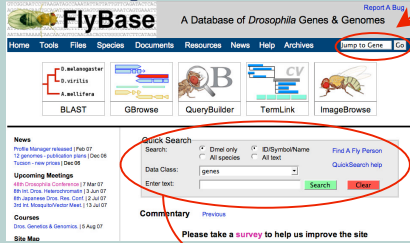
GBrowse

Data Downloads

www.flybase.org

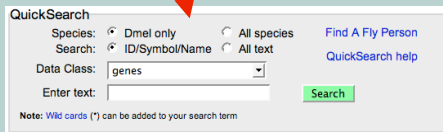
Basic Searches

Jump to Gene



Find genes by symbol, synonym, or ID. Optimized to return the best hit(s).

Quick Search



- genes
- aberrations
- alleles
- balancers
- clones
- controlled vocabularies
- genes
- insertions
- natural transposons
- polypeptides
- recombinant constructs
- references
- stocks
- transcripts

- Access to ALL report pages.
- Search main data classes
- Option to search all species and all text
- Optimized to return all hit(s).
- For field-specific queries across multiple data sets, use QueryBuilder!

CytoSearch

Generates regional maps of the Dmel genome, incorporating both sequence-based & cytology-based map data.

1. Category

2. Enter value

3. results

Option to download results to a file.

Cytology	Observed or estimated sequence coordinates	Symbol	Stocks
Genes (mapped to the sequence)			
64B9-64B11	3L:4566987..4592300	CG32245	3 stocks
Genes (mapped, but not to the sequence)			
61A-64E	3L:299459..581003	Rhns62	
62A-65F	3L:1303741..7424404	E(L)bx3L	
63E-64F	3L:3427672..5919622	Cg63-64	
64	3L:3935599..5919622	I(3)S003405	FBst100033
64	3L:3935599..5919622	AT21	

Report Pages

Example report page

- Report pages are available for every object in FlyBase, e.g. Genes, Alleles, Controlled Vocabulary terms, etc.
- Use 'Open all' to see all the information available and 'Close all' to minimize the page.
- Click Help to read about different fields

General information

Genomic information

Clicking on each heading opens further sections

Click "Help" for field-by-field help for each report

Use profile manager to save customized report views

Obtaining Fly Reagents

Find Reagent:

Gene Report and/or Direct Search

QuickSearch, QueryBuilder, CytoSearch

- STOCKS & REAGENTS
- STOCKS AVAILABLE (AS LISTED IN FLYBASE)
- GENOMIC CLONES
- cDNAs
- RNAi & ARRAY INFORMATION
- ANTIBODY INFORMATION
- OTHER INFORMATION
- EXTERNAL CROSSREFERENCES & LINKOUTS
- SYNONYMS & SECONDARY IDs (26)
- REFERENCES (222)

e.g: Fly Stocks

Stock Name	Stock Number	Stock Location
Harvard	17038	P{[P]cmf}
Szeged	5039	PBac(RB)
Bloomington	16372	PBac(WH)
Kyoto	15101	P{EP}CG1
	108003	w[118]; F
		cn[1] cnn[1]
		y[1] w[6] c
		y[1]; P{y[1]
		cn[1] cnn[1]

1. Identify stock number
2. Determine location of stock
3. Order stock from stock center

<http://flystocks.bio.indiana.edu>

<http://drosophila.med.harvard.edu/>

<http://sagafly.dgrc.kit.ac.jp/en/>

<http://expbio.bio.u-szeged.hu/fly/>

e.g: cDNA clones

Stock Name	Stock Number	Stock Location
BDGP DGC cDNAs	AT27480	LD0
	bs30g05	AT0
	LP02441	LD1
	AT29219	EK0
	LD43584	AT1

1. Learn about clone on clone report (click)
2. Order clone using clone ID

<https://dgrc.cgb.indiana.edu/>