

Protein-Protein Interactions

Searching by gene using QuickSearch:

QuickSearch

Species: Dmel only All species [Find A Fly Person](#)
 Search: ID/Symbol/Name All text [QuickSearch help](#)

Data Class:

Enter text:

Note: Wild cards (*) can be added to your search term

Interaction group

Pros29, Prosβ3 Interaction report

General Information

Interaction Type	physical association	Interacting Genes	Pros29, Prosβ3
FlyBase ID	FBi000012643		

Interaction Network

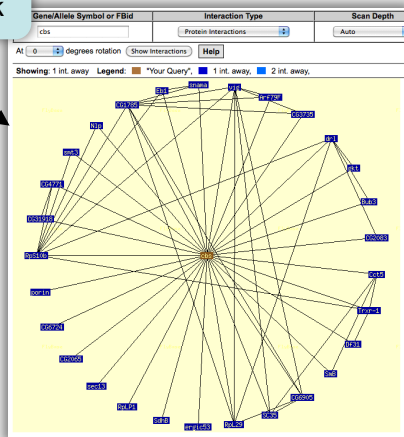
Reported Interactions

Reported Interactions	Reported as	Role	Note
Prosβ3 protein	Prosβ3 protein	bait	
Pros29 protein	Pros29 protein	prey	

Experiments observing this interaction

Experimental entities	Identifier	Reported	Role	Note
Prosβ3 protein	LD16402	DPM-1	bait tag fusion clone	
Prosβ3 protein	FGIQAGTIS	DPM-1	identified peptide	N=1
Prosβ3 protein	DAMSGWGT	DPM-1	identified peptide	N=2

Interactions browser link



Fast-Track Your Paper

Use this tool to:

- Determine if a publication has been curated
- Submit a citation for a publication not in FlyBase
- Provide info on types of data in a publication to help prioritize further FlyBase curation
- Associate genes with a publication to link Gene and Reference reports in FlyBase
- Note: user submissions are prioritized for full curation!

Find it here

Tools Overview

- Query Tools
- Genomic/Map Tools
- Retrieve/Convert
- Data Submission
- People
- Fast-Track Your Paper**
- FlyBase Forum

Attention authors: check your email!
 FlyBase will alert you when your newly published paper is ready to be fast-tracked!

How to do it:

- Identify your publication of interest
- If paper has not yet been curated, then proceed through to fast-track your paper
- If paper has already been curated, there's nothing you need to do

Step 1: Lookup a publication and its curation status in FlyBase

Search for Publication with Keywords

Try searching with an author, a year and part of a journal title. For example, enter "Adams 2000 Science" (without the quotes). Or, try searching with a PubMed ID (PMID). For example, enter "1073132" (without the quotes). Also note that wild cards (*) can be added to your search terms.

Step 2: Identify yourself so the submission can be attributed to you

Step 3: Provide information on types of data in a publication to prioritize further curation

Step 4: Identify genes that are experimental subjects of the publication

Step 5: Provide information on new antibodies

Step 6: Confirm your submission



A Database of *Drosophila* Genes and Genomes

New & Notable 2011

GBrowse:
New Tracks

RNA-Seq and
Junctions

Expression-Based
Searches

Protein-Protein
Interactions

Fast-Track
Your Paper

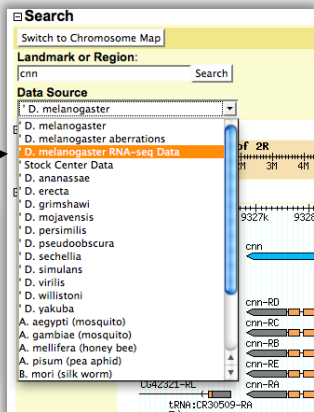
www.flybase.org

FlyBase is supported by a grant from the National Human Genome Research Institute (NHGRI) at NIH #P41 HG000739. Support is also provided by the British Medical Research Council and the Indiana Genomics Initiative.

GBrowse: New Tracks

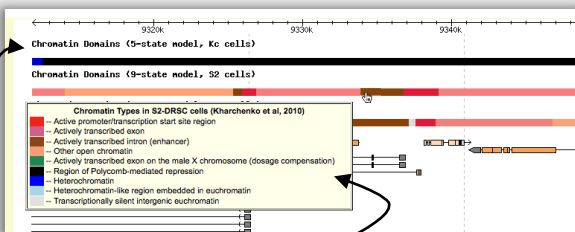
Data Sources Menu

New tracks located in alternate data source

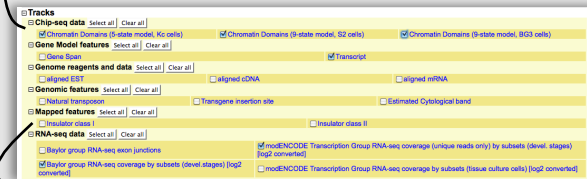


Please be aware that we are no longer able to show all the Dmel GBrowse data in one view.

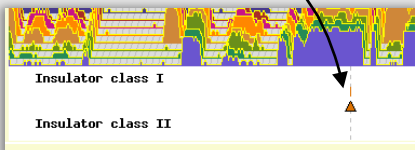
Chromatin Domains



Color key pops up upon mouse-over



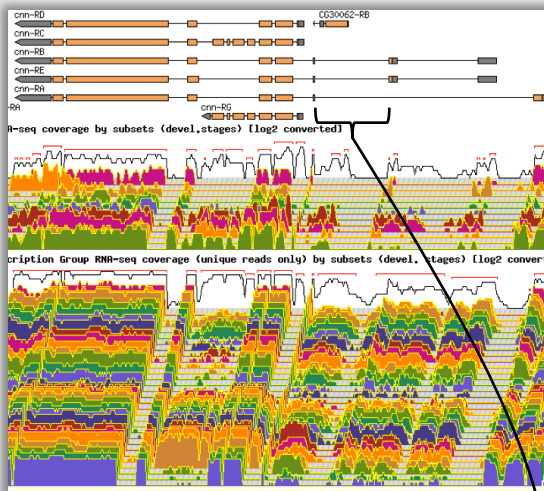
Insulators



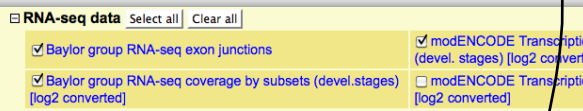
Click insulator to see associated Library/Collection Report for experimental details

RNA-Seq & Junctions

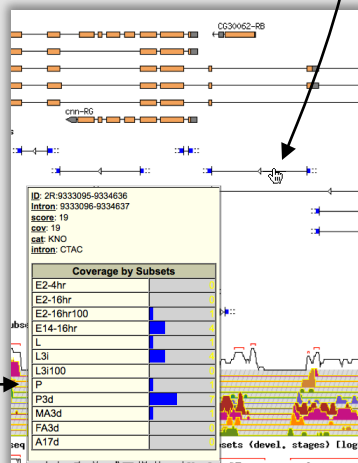
RNA-Seq data can now be viewed together with exon junctions



Select exon junction track:



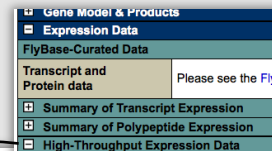
Mouse-over junctions to see evidence supporting the junction by developmental stage



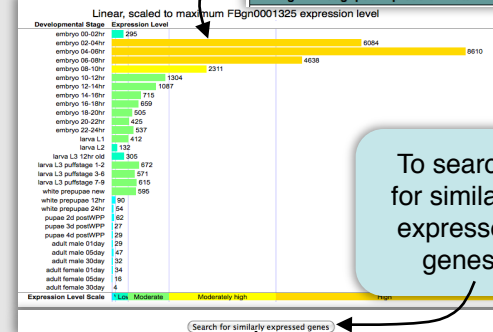
Expression-Based Searches

Gene-Based Searching

On Gene Report: Go to Expression Data → High Throughput Expression Data



To search for similarly expressed genes



Gene	Profile (selected subsets only)	Correlation (%)	Molecular function	Biological process
CG10000	[Profile]	100.00	DNA binding chromatin binding specific RNA polymerase II transcription factor activity transcription factor activity transcription repressor activity zinc ion binding	Malignant tumor morphogenesis axon guidance chromatin silencing compound eye development negative regulation of transcription from RNA polymerase II promoter neuroblast fate determination regulation of development, heterochromatin silencing trunk regeneration ventral cord development zygotic determination of anterior/posterior axis, embryonic
CG10001	[Profile]	90.00	DNA binding RNA polymerase II transcription factor activity nucleic acid binding specific RNA polymerase II transcription factor activity specific transcriptional repressor activity zinc ion binding	Malignant tumor morphogenesis anterior neural invasion compound eye development dorsal/ventral axis specification dorsal/ventral pattern formation, imaginal disc outgrowth and mesoderm interaction gastrulation gastrulation involving germ layer expansion mesoderm development mesodermal cell fate commitment mesodermal cell fate determination mesodermal cell fate specification muscle organ development negative regulation of transcription from RNA polymerase II promoter regulation of transcription ventral furrow formation
CG10002	[Profile]	87.98	RNA polymerase II transcription factor activity nucleic acid binding zinc ion binding	asymmetric neuroblast division brain development denticle morphogenesis regulation of transcription

- CV terms matching gene of interest highlighted
- List can be exported to standard hitlist and used for QueryBuilder, Batch Download, etc.

