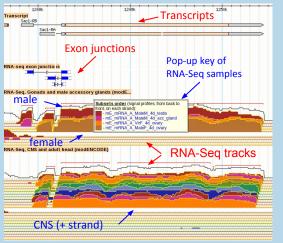
### **Genomic Data:** GBrowse/JBrowse



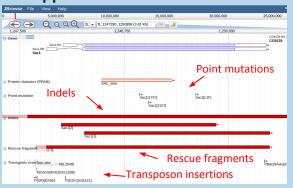
~100 tracks of diverse genomic data displayed in GBrowse genome viewer including gene models, TSS data, protein domains, regulatory features, and much more...

### RNA-Seq expression and exon junctions/ GBrowse



FlyBase's unique "topoview" display allows many RNA-Seq samples to be viewed at once. Click on wrench icon to change from log2 to linear scale.

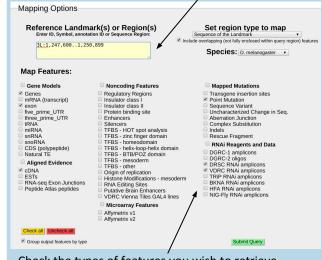
#### **Mapped Mutations/ JBrowse view**



Point mutations, indels, rescue fragments, insertions shown and linked to FlyBase reports.

# Featured Tool: Feature Mapper

Access Feature Mapper via the Tools menu, under the "Genomic/Map Tools" sub-menu. Enter a symbol, ID, or genome coordinates.



Check the types of features you wish to retrieve.

Combined GFF file				
3L:1,247,6001,250,899				
All features GFF 500				
Genes				to HKList
	3L:12469861247677	<	gene	Psf1
	3L:12478171250451	>	gene	Sac1
	3L:12506961251778	>	gene	CG9129
Exons				
	3L:12469861247677		exon	_0_
	3L:12478171247947	>	exon	_1_
	3L:12480201248188	>	exon	_2_
	3L:12482561250451		exon	_3_
	3L:12506961251778	>	exon	_4_
cDNA and Aligned genomic sequences				
	3L:12469841247677	<		IP07275-BT025002-na_cDNA_ncbi.other_20140813-splign
	3L:12480191250455	>	cDNA_cDNA	GH08349-AY047571-na_cDNA_ncbi.other_20140813-splign
	3L:12506961251780	>	cDNA_cDNA	FI08042-BT044379-na_cDNA_ncbi.other_20140813-splign
	3L:12506961251780	>	cDNA_cDNA	AT26009-AY089441-na_cDNA_ncbi.other_20140813-splign
Point Mutations				to Hill.ist
	3L:12489361248936	>	point_mutation	Sac1[1757]
	3L:12490411249041 3L:12496031249603		point_mutation point mutation	Sac1(2107) Sac1(L2F)
DRSC RNAi amplicons	3L.12480031248003		point_mutation	Seculary to Hear
DRSC RIVAL aniplicons	3L:1250123, 1250352	->	Blastn drsc blast.txt	DRSC37062-1713 20090330-blastn
	3L:12471291247616		Dmel r3 r4 r5 drsc mapped.txt	DRSC08638-8227 20090331-dmel r3 r4 r5
	3L:12473631247645	٤	Dmel r3 r4 r5 drsc mapped.txt	DRSC24486-21976 20090331-dmel r3 r4 r5
	3L:12482861248668	>	Dmel r3 r4 r5 drsc mapped.txt	DRSC34470-30678 20090331-dmel r3 r4 r5

Returns a table of features in region sorted by type with genomic location, links to reports, and option to export to a HitList for further querying. GFF also available.

1	#	↓Symbol†	↓Library/Collection↑	<b>↓Type</b> †	↓Species†
V	1	DRSC08622	DRSC_dsRNA	RNAi_reagent	Dmel
•	2	DRSC08638	DRSC_dsRNA	RNAi_reagent	Dmel
•	3	DRSC24486	DRSC_dsRNA	RNAi_reagent	Dmel
Y	4	DRSC26886	DRSC_dsRNA	RNAi_reagent	Dmel
₹	5	DRSC34470	DRSC_dsRNA	RNAi_reagent	Dmel
4	6	DRSC34471	DRSC_dsRNA	RNAi_reagent	Dmel
8	7	DRSC37062	DRSC dsRNA	RNAi reagent	Dmel



A Database of *Drosophila* Genes and Genomes

# General Information

**QuickSearch** 

**Video Tutorials** 

**Gene Group Reports** 

**Data Downloads** 

Fly Reagents

**Genomic Data** 

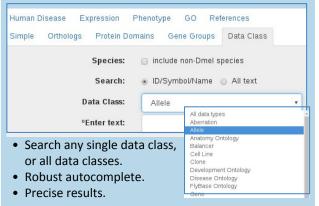
**Feature Mapper** 

#### www.flybase.org

FlyBase is supported by a grant from the National Human Genome Research Institute at the U.S. National Institutes of Health #U41 HG000739. Support is also provided by the British Medical Research Council and the Indiana Genomics Initiative.

# QuickSearch (Beyond SimpleSearch)

#### **Data Class Search**



#### **Specialized Search Tabs**



- Search very specific data.
- Includes our newest data classes.
- Allows complex searches of some data classes.

#### **Video Tutorials**



## Featured Report: Gene Group

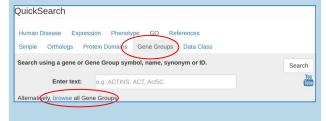
'Gene Groups' are ready-to-use sets of functionally related genes/gene products, as described in the *Drosophila* literature or expert databases. They include: gene families (e.g. actins), gene products sharing a molecular function (e.g. protein kinases) and subunits of macromolecular complexes (e.g. spliceosome).



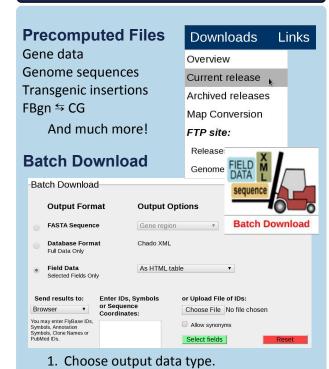
Notice the **Members** table facilitates further analysis by including three handy buttons:

- View Orthologs
- Export to Hit List
- Export to Batch Download

Use **QuickSearch** to find/browse Gene Groups:



#### **Data Downloads**



### **Obtaining Fly Reagents**

2. Input FB symbols or identifiers.

3. Choose fields for display.

#### **Stocks and Reagents**

Scroll down on any Gene Report for the **Stocks and Reagents** table.

	<u> </u>
	Stocks and Reagents
+	Stocks Listed in FlyBase ( 146 )
+	Genomic Clones ( 18 )
+	cDNA Clones ( 68 )
+	RNAi and Array Information
+	Antibody Information

Expand any section for links and additional information.