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A Database of *Drosophila* Genes & Genomes

Home Tools Files Species Documents Resources News Help Archives

BLAST

GBrowse

QueryBuilder

TermLink

ImageBrowse

News

- [12 genomes - publication plans](#) | Dec 06
- [Tucson - new prices](#) | Dec 06
- [Community Genomes Papers](#) | Nov 06
- [Fly - A new journal](#) | Sep 06
- [Off-Target Effects: DRSC](#) | Sep 06
- [Apollo Support](#) | Sep 06

Upcoming Meetings

- [48th Drosophila Conference](#) | 7 Mar 07
- [8th Int. Dros. Heterochromatin](#) | 3 Jun 07

Courses

Site Map

Internet Explorer Issues

Quick Search

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

Data Class:

Enter text:

Commentary [Previous](#) | [Read More](#)

Dear *Drosophila* Community Colleagues:

As some of you may know, FlyBase has spent a good deal of effort to redesign our database and the web site. Our main goals were to bring the site up to generally accepted web standards and protocols, provide more intuitive entry to the site and afford easier access to the entire set of data held within the database. We at FlyBase are now confident enough in the functionality of the new site that we are replacing the existing site with release 2006_01.[\(more\)](#)

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version FB2006_01, released December 8, 2006

General Design Aims

- Provide a consistent “look and feel” to the site.
- Afford easier access to FlyBase data
- Produce a site that degrades gracefully
- Improve web standards and accessibility
- Pages should fit on a wide variety of screens



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[Home](#) [Tools](#) [Files](#) [Species](#) [Documents](#) [Resources](#) [News](#) [Help](#) [Archives](#)

BLAST

GBrowse

QueryBuilder

TermLink

ImageBrowse

FlyBase IDs
 Symbols
 Synonyms
 Proper names

News

- [12 genomes - publication plans](#) | Dec 06
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version FB2006_01, released December 8, 2006



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Home Tools Files Species Documents Resources News Help Archives

BLAST

GBrowse

QueryBuilder

TermLink

ImageBrowse

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- [12 genomes - publication plans](#) | Dec 06
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Courses

Site Map

Internet Explorer Issues

Quick Search

Search:

Data Class:

- aberrations
- alleles
- balancers
- clones
- genes
- insertions
- polypeptides
- recombinant constructs
- references
- stocks
- transcripts

Enter text:

[Find A Fly Person](#)

[QuickSearch help](#)

Commentary

Dear *Drosophila* C

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Home Tools Files Species Documents Resources News Help Archives

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GBrowse

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TermLink

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GENERAL INFORMATION			
Symbol	Dmel\Sos	Species	<i>D. melanogaster</i>
Name	Son of sevenless	Annotation symbol	CG7793
Feature type	protein_coding_gene	FlyBase ID	FBgn0001965
Created / Updated	2003-12-01/2003-12-01		

GENOMIC LOCATION			
Chromosome (arm)	2L	Recombination map	
Cytogenetic map	34D1-34D1	Sequence location	2L:13,813,828..13,819,826 [+]

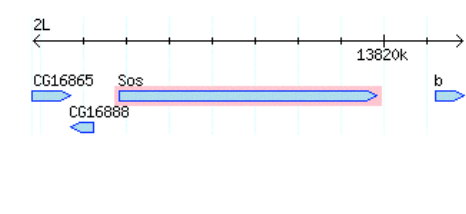
Map ([GBrowse](#))

- DETAILED MAPPING DATA
- GENE MODEL & FEATURES
- GENE PRODUCTS & EXPRESSION
- ALLELES & PHENOTYPES
- GENE ONTOLOGY: Function, Process, and Cellular component (17)
- SEQUENCE ONTOLOGY: Class of gene
- INTERACTIONS & PATHWAYS
- ORTHOLOGS
- STOCKS & REAGENTS
- OTHER INFORMATION
- EXTERNAL CROSSREFERENCES & LINKOUTS
- SYNONYMS & SECONDARY IDs (26)
- REFERENCES (222)

GENERAL INFORMATION			
Symbol	Dmel\Sos	Species	<i>D. melanogaster</i>
Name	Son of sevenless	Annotation symbol	CG7793
Feature type	protein_coding_gene	FlyBase ID	FBgn0001965
Created / Updated	2003-12-01/2003-12-01		

GENOMIC LOCATION			
Chromosome (arm)	2L	Recombination map	
Cytogenetic map	34D1-34D1	Sequence location	2L:13,813,828..13,819,826 [+]

Map ([GBrowse](#))



The genomic map shows chromosome 2L with a scale bar from 13820k to 13820k. The Sos gene is represented by a red arrow pointing right, starting at CG16865 and ending at CG16888. Other features include a blue arrow labeled 'b' and a blue arrow labeled 'CG16888' below the main gene arrow.

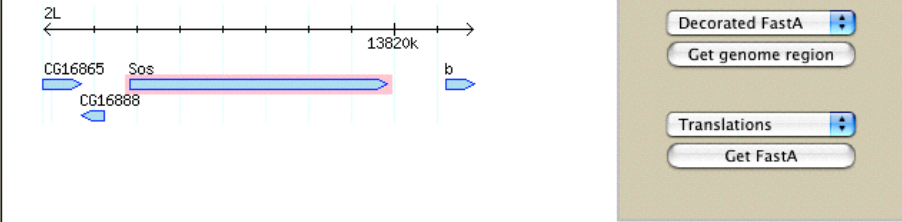
- ▣ DETAILED MAPPING DATA
- ▣ GENE MODEL & FEATURES
- ▣ GENE PRODUCTS & EXPRESSION
- ▣ ALLELES & PHENOTYPES
- ▣ GENE ONTOLOGY: Function, Process, and Cellular component (17)
- ▣ SEQUENCE ONTOLOGY: Class of gene
- ▣ INTERACTIONS & PATHWAYS
- ▣ ORTHOLOGS
- ▣ STOCKS & REAGENTS
- ▣ STOCKS AVAILABLE (AS LISTED IN FLYBASE) (10)
- ▣ GENOMIC CLONES
- ▣ cDNAs
- ▣ RNAI & ARRAY INFORMATION
- ▣ ANTIBODY INFORMATION
- ▣ OTHER INFORMATION
- ▣ EXTERNAL CROSSREFERENCES & LINKOUTS
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- ▣ REFERENCES (222)

Home Tools Files Species Documents Resources News Help Archives

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Map ([GBrowse](#))



- DETAILED MAPPING DATA
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- INTERACTIONS & PATHWAYS
- ORTHOLOGS
- STOCKS & REAGENTS
- STOCKS AVAILABLE (AS LISTED IN FLYBASE) (10)

Harvard	-	PBac(WH)Sos[f05577]
Szeged	-	P{lacW}l(2)SH1125[SH1125]
Bloomington	2240	b[1] Sos[34Ea-6] Adh[n4]CyO
	10566	y[1] w[67c23]; P{w(+mC)=lacW}Sos[k05224]/CyO
	16503	y[1]; P{y(+mDint2) w[BR.E.BR]=SUPor-P}Sos[KG10074]
Kyoto	106751	b[1] Sos[34Ea-6] Adh[n4]CyO
	102350	Df(1)w67c23, y[1]; P{lacW}Sos[k05224] / CyO
	102411	Df(1)w67c23, y[1]; P{lacW}Sos[k05705] / CyO
	102463	Df(1)w67c23, y[1]; P{lacW}Sos[k06321] / CyO
	101320	b[1] Sos[34Ea-6] Adh[n4] / CyO, Cy[1] dp[lv1] pr[1] cn[2]

- GENOMIC CLONES
- cDNAs
- RNAi & ARRAY INFORMATION
- ANTIBODY INFORMATION
- OTHER INFORMATION
- EXTERNAL CROSSREFERENCES & LINKOUTS
- SYNONYMS & SECONDARY IDs (26)
- REFERENCES (222)

The 'Matryoshka' layout

- Offers a condensed view of a report
- Custom page views
 - Cookies
 - User profiles
- Buttons to control sections behaviour
- Degrades gracefully

Enter search context

Or browse the following hierarchy structures:

<p>Anatomy</p> <ul style="list-style-type: none"> _tagma _organ system _cultured cell-line _stage<ul style="list-style-type: none"> _adult _egg _embryo _larva _pharate adult _prepupa _pupa	<p>Cellular component</p> <ul style="list-style-type: none"> _extracellular region _extracellular matrix _cell _membrane-enclosed lumen _envelope _organelle _protein complex _cellular component unknown	<p>Development</p> <ul style="list-style-type: none"> _oogenesis stage _egg stage _embryonic stage _larval stage _prepupal stage _pupal stage _adult stage _pharate adult stage
---	--	--

TERMLINK HELP

TermLink allows you to search the [controlled vocabularies \(CVs\)](#) used by FlyBase for a controlled vocabulary (CV) term report. A term report shows how the particular term relates to other terms within the same controlled vocabulary and provides links to objects in FlyBase that have been annotated with that particular term.

[HOW TO SEARCH USING TERMLINK](#)

[OTHER FEATURES](#)



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CV term report

[Home](#) [Tools](#) [Files](#) [Species](#) [Documents](#) [Resources](#) [News](#) [Help](#) [Archives](#)

GENERAL INFORMATION

Term	membrane-enclosed lumen	ID	GO:0031974
Definition	The enclosed volume within a sealed membrane or between two sealed membranes.		

SPANNING TREE (Parents/Children)

```
membrane-enclosed lumen
├── organelle lumen
│   ├── endoplasmic reticulum lumen
│   ├── endosome lumen
│   ├── Golgi lumen
│   ├── microbody lumen
│   ├── mitochondrial lumen
│   ├── nuclear lumen
│   ├── organelle envelope lumen
│   ├── platelet alpha granule lumen
│   ├── platelet dense granule lumen
│   └── platelet dense tubular network lumen
├── thylakoid lumen
├── vacuolar lumen
└── vesicle lumen
```

Spanning Tree View Settings	Show hierarchy levels: <input type="text" value="all"/> for parents, <input type="text" value="2"/> for children <input type="button" value="Redraw"/>
Search for	<input type="button" value="Genes"/> <input type="button" value="Alleles"/> <input type="button" value="Transcripts"/> <input type="button" value="Polypeptides"/> <input type="button" value="Insertions"/>
<input checked="" type="checkbox"/> RELATIONSHIPS	
<input checked="" type="checkbox"/> SYNONYMS AND SECONDARY IDs	
<input checked="" type="checkbox"/> EXTERNAL CROSSREFERENCES & LINKOUTS	

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version FB2006_01, released December 8, 2006

GENERAL INFORMATION	
Term	membrane-enclosed lumen ID GO:0031974
Definition	The enclosed volume within a sealed membrane or between two sealed membranes.

SPANNING TREE (Parents/Children)

- membrane-enclosed lumen
 - organelle lumen
 - endoplasmic reticulum lumen
 - endosome lumen
 - Golgi lumen
 - microbody lumen
 - mitochondrial lumen
 - nuclear lumen
 - organelle envelope lumen
 - platelet alpha granule lumen
 - platelet dense granule lumen
 - platelet dense tubular network lumen
 - thylakoid lumen
 - vacuolar lumen
 - vesicle lumen

Spanning Tree View Settings	Show hierarchy levels: <input type="text" value="all"/> for parents, <input type="text" value="2"/> for children <input type="button" value="Redraw"/>
Search for	<input type="button" value="Genes"/> <input type="button" value="Alleles"/> <input type="button" value="Transcripts"/> <input type="button" value="Polypeptides"/> <input type="button" value="Insertions"/>
<input checked="" type="checkbox"/> RELATIONSHIPS <input checked="" type="checkbox"/> SYNONYMS AND SECONDARY IDs <input checked="" type="checkbox"/> EXTERNAL CROSSREFERENCES & LINKOUTS	

Query: [go-id:GO:0031974]>fbgn

No. matches= 534

[Export hits to download tool](#)

#	▲Symbol▼	▲Name▼
1	Aats-leu	Leucyl-tRNA synthetase
2	Acf1	ATP-dependent chromatin assembly factor large subunit
3	Ada2b	Ada2b
4	Adk2	Adenylate kinase-2
5	Adk3	Adenylate kinase-3
6	Alas	Aminolevulinate synthase
7	Aldh	Aldehyde dehydrogenase
8	ap	apterous
9	Arc42	Arc42
10	Art4	Arginine methyltransferase 4
11	asf1	anti-silencing factor 1
12	B52	B52
13	Bap170	Brahma associated protein 170kD
14	Bap26	Brahma associated protein 26kD
15	Bap55	Brahma associated protein 55kD
16	Bap60	Brahma associated protein 60kD
17	Bgb	Big brother
18	Bin1	Bicoid interacting protein 1
19	bip2	bip2
20	bl	bancal

Legend: sort by column - ▲ forward ▼ reverse

Batch Download by ID

[Help](#)

Output Format

- FastA Genome Sequence**
Gene/Annotation Data Only
- Database Format**
Full Data Only
- Field Data**
Selected Fields Only

Output Options

- Gene region
- Reporting XML
- As HTML table
- As tab-separated file
- From precomputed files

Send results to:

IDs may be FlyBase IDs, a Drosophila Gene Collection (DGC), or Computed Gene (CG) symbol, or a valid FlyBase symbol.

Enter List of IDs:

FBgn0000099
FBgn0000212
FBgn0000377
FBgn0000392
FBgn0000408
FBgn0000409

or Upload File of IDs:

no file selected



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Select fields

[Home](#) [Tools](#) [Files](#) [Species](#) [Documents](#) [Resources](#) [News](#) [Help](#) [Archives](#)

- CVBODP - OBO: Anatomy
- CVCEL - GO: Cellular Component
- CYC - Text: CYC
- DBA - DNA/RNA accessions
- DHO - Flag: Homologous drosophilid genes
- DIS - Text: DIS
- ENZ - GO: Molecular Function**
- FBID - Text: FBID
- FNC - GO: Biological Process**
- FSQ - Flag: Foreign sequence
- GLC - Text: GLC
- GPD - CV: Gene Product
- GSNA - Text: GSNA
- GSYM - Symbol: Gene symbol**
- LOI - Symbol: Location inferred from insertion in
- MD - Text: MD
- MMP - Flag: MolMap data
- MRK - CV: Body Part Marker
- NAM - Text: NAM
- OTH - Text: OTH

Select field tags:

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FBID	ENZ	FNC	GSYM
<p>FBgn0000099</p>	<p>specific RNA polymerase II transcription factor activity inferred from sequence or structural similarity with UniProt:P36198</p> <p>zinc ion binding non-traceable author statement</p> <p>sequence-specific DNA binding inferred from electronic annotation</p> <p>transcription factor activity inferred from electronic annotation</p>	<p>axon guidance inferred from mutant phenotype</p> <p>nervous system development inferred from mutant phenotype</p> <p>transcription inferred from mutant phenotype AND traceable author statement</p> <p>muscle development inferred from mutant phenotype</p> <p>leg disc proximal/distal pattern formation inferred from mutant phenotype</p> <p>leg disc development inferred from mutant phenotype</p> <p>leg segmentation inferred from mutant phenotype</p> <p>histolysis inferred from mutant phenotype</p> <p>haltere disc morphogenesis non-traceable author statement</p> <p>wing disc morphogenesis non-traceable author statement</p> <p>cell fate commitment non-traceable author statement</p> <p>dorsal/ventral lineage restriction, imaginal disc traceable author statement</p> <p>wing disc dorsal/ventral pattern formation traceable author statement</p> <p>muscle development traceable author statement</p> <p>dorsal/ventral pattern formation, imaginal disc traceable author statement</p> <p>wing morphogenesis traceable author statement</p>	<p>ap</p>



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CV term report

[Home](#)
[Tools](#)
[Files](#)
[Species](#)
[Documents](#)
[Resources](#)
[News](#)
[Help](#)
[Archives](#)

Downloads:			
GENERAL INFORMATION	<ul style="list-style-type: none"> Computed files Archived data 	lumen	GO:0031974
Term		Term within a sealed membrane or between two sealed	
Definition			
Lists:			

- Transposons (Dmel)
 - Transposons (other)
 - Vectors & Constructs
 - Anatomical Terms
 - Map Conversion
- membrane-enclosed lumen
 - organelle lumen
 - endoplasmic reticulum lumen
 - endosome lumen
 - Golgi lumen
 - microbody lumen
 - mitochondrial lumen
 - nuclear lumen
 - organelle envelope lumen
 - platelet alpha granule lumen
 - platelet dense granule lumen
 - platelet dense tubular network lumen
 - thylakoid lumen
 - vacuolar lumen
 - vesicle lumen

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Search for	<input type="button" value="Genes"/> <input type="button" value="Alleles"/> <input type="button" value="Transcripts"/> <input type="button" value="Polypeptides"/> <input type="button" value="Insertions"/>
<input checked="" type="checkbox"/> RELATIONSHIPS <input checked="" type="checkbox"/> SYNONYMS AND SECONDARY IDs <input checked="" type="checkbox"/> EXTERNAL CROSSREFERENCES & LINKOUTS	



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<input type="checkbox"/> MAIN DATA SET			
<input type="checkbox"/> SYNONYMS			
<input type="checkbox"/> GENES			
Item	Chado XML	Reporting XML	Other
Genes data	+++	+++	
Genetic Interaction table			gene_genetic_interactions_fb_2006_01_18_reporting.tsv.gz
FBgn <=> DB Accession IDs			fbgn_NAseq_Uniprot_fb_2006_01_18.tsv.gz
FBgn <=> Annotation ID			fbgn_annotationID_fb_2006_01_18.tsv.gz
Genes GO data			gene_association.fb
RNAi <=> FBgn <=> FBtr			
Array <=> FBgn <=> FBtr			
<input type="checkbox"/> ALLELES AND STOCKS			
<input type="checkbox"/> NOMENCLATURE			
<input type="checkbox"/> ONTOLOGY TERMS			
<input type="checkbox"/> GENOMES: ANNOTATION AND SEQUENCE			
<input type="checkbox"/> TRANSCRIPTS AND POLYPEPTIDES			
<input type="checkbox"/> TRANSPOSONS, TRANSGENIC CONSTRUCTS, AND INSERTIONS			
<input type="checkbox"/> ABERRATIONS			
<input type="checkbox"/> CLONES			
<input type="checkbox"/> REFERENCES			
<input type="checkbox"/> DROSOPHILA RESEARCHERS			
<input type="checkbox"/> MAP CONVERSION TABLES			

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version FB2006_01, released December 8, 2006

Query Schema

DataSet->	GO/Anatomy CV DB		GO/Anatomy CV DB
Field->	CV term	AND	CV term
SearchText->	wing morphogenesis		cell adhesion

Show me related Create sets of cross-referenced records from other datasets Species:

QUERYBUILDER HELP

QueryBuilder (QB) provides one-stop shopping for information in FlyBase. QB presents a simple user interface that supports powerful searches by offering access to every DataSet|Field pair (for example, Genes|CV:GO:Molecular Function) in FlyBase along with the ability to include any combination of datasets in the same search. QB automatically creates sets of records that are cross-referenced to the records that match your query, providing links to all related records in FlyBase from a single page. Both simple and complex queries can be built in a few steps:

The Getting Started section outlines the basic search strategy. A [full tutorial](#) and a [quick start guide](#) are available to download as PDFs. The full tutorial includes an introduction to QueryBuilder and a few examples of the kinds of searches possible with QB, along with some hints and tips to help you get the most out of your searches.

- [HOW TO QUERYBUILD -- GETTING STARTED](#)
- [FEATURES](#)
- [FURTHER INFORMATION AND EXAMPLES](#)
- [NOTES, KNOWN PROBLEMS AND FEATURES YET TO COME](#)

Query Schema

DataSet-> Field-> SearchText-> [# of leads]	GO/Anatomy CV DB CV term wing morphogenesis [171 leads]	AND	GO/Anatomy CV DB CV term cell adhesion [315 leads]
--	--	-----	---

Direct links: Records matching your query *and* annotated with relevant CV term(s) :

[Genes](#)
19

Indirect links: Records matching your search *or* crossreferencing its results (Species Filter == Dmel) :

[Alleles](#) [Genes](#) [Polypeptides](#) [Stocks](#) [Transcripts](#)
2081 CURRENT VIEW 31 3402 31

Linkout search [DEDB Exons](#) [Fly-GRID](#) [DrosDel](#) [FlyAtlas](#) [InteractiveFly](#) [DRSC](#) [Prot.Domains](#) [PIMRider](#) [NCBI GEO](#) [FlyMine](#) [Prot.Data](#) [PANTHER](#) [FlyExpress](#)
[FLIGHT](#) [InParanoid Orthologs](#) [BDGP in situ](#) [Heidelberg RNAi](#) [Nucl.Sequences](#)

Query: '([go-id:"GO_3A0007476"]>fbgn) AND [go-id:"GO_3A0007155"]>fbgn'

No. matches= 19

#	Symbol	Name
1	blo	bloated
2	crol	crooked legs
3	dally	division abnormally delayed
4	DI	Delta
5	dip	dally-like
6	dp	dumpy
7	ds	dachsous
8	EcR	Ecdysone receptor
9	flw	flap wing
10	ft	fat
11	fw	furrowed
12	fz	frizzled
13	if	inflated
14	Ilk	Integrin linked kinase
15	mew	multiple edematous wings
16	mys	mysospheroid
17	N	Notch
18	rhea	rhea
19	Ser	Serrate

Legend: sort by column - ▲ forward ▼ reverse

FlyBase LinkOut: InParanoid computed orthology calls (v.4.0)

FlyBase gene	Organism/Ortholog
Dl	Anopheles gambiae ENSANGG00000002379 Apis mellifera ENSAPMG00000007326 Canis familiaris ENSCAFG00000004094 Danio rerio ENSDARG00000010791 Dictyostelium discoideum DDB0167241 Fugu rubripes SINFRUG00000149486 Gallus gallus ENSGALG00000011182 Homo sapiens ENSG00000198719 Mus musculus ENSMUSG00000014773 Pan troglodytes ENSPTRG00000018824 Rattus norvegicus ENSRNOG00000014667 Tetraodon nigroviridis GSTENG00032359001
ds	Anopheles gambiae ENSANGG00000007504 Canis familiaris ENSCAFG00000006532 Fugu rubripes SINFRUG00000128429 Gallus gallus ENSGALG00000017334 Homo sapiens ENSG00000166341 Mus musculus ENSMUSG00000036862 Tetraodon nigroviridis GSTENG00013680001
EcR	Anopheles gambiae ENSANGG00000006829 Apis mellifera ENSAPMG00000006894 Canis familiaris ENSCAFG00000008824 Danio rerio ENSDARG00000015979 Fugu rubripes SINFRUG00000129321 Gallus gallus ENSGALG00000008202

Evaluation of the design

- External review of the site by HCI experts
- Post a questionnaire on the new site
- Carry out a usability study
- Develop a logging system
 - to track how the site is used
 - provide information on page load times

The Web Development Committee

Cambridge:

- Gillian Millburn - Specification of all reports relying on Star Code

Harvard:

- Madeline Crosby - Specification of Transgenic Construct and Insertion reports
- Susan St. Pierre - Specification of Transcript and Polypeptide reports

Bloomington:

- Josh Goodman - Preparation of sequence data and report pages from Chado, BLAST, and MySQL version of FlyBase for search functions
- Victor Strelets - GBrowse, QueryBuilder, Search and Reporting Software, and Server maintenance
- Robert Wilson - Web Page design
- Thom Kaufman - Web Project Coordinator

In addition, all members of FlyBase helped improve the design of the new site.

We are particularly grateful to Gary Grumbling and Kathy Matthews for their work on the Stock, Aberration and Image reports, and Andy Schroeder for the specification of the Clone reports.