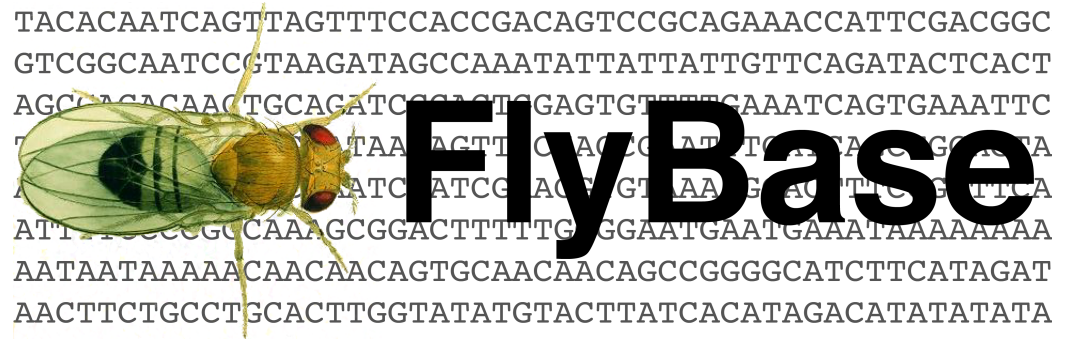
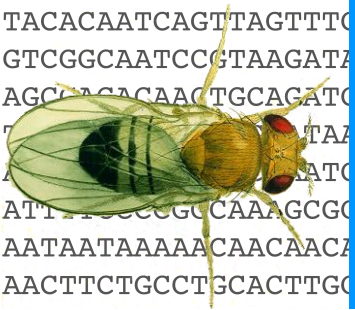


New in



FlyBase

- Protein Domains**
- Author Reagent Form Human**
- Video Tutorials**
- Gene2Function Disease**
- Gene Snapshots**
- Orthology**
- Community Resources**



Where to find this talk

FB2016_03, released May 24, 2016

FlyBase A Database of *Drosophila* Genes & Genomes

Home Tools Downloads Links Community Species About Help Archives

FAST-TRACK YOUR PAPER
NEWS
MEETINGS
COMMUNITY ADVOCACY

QuickSearch
Species: include non-Dmel spec
Enter text:

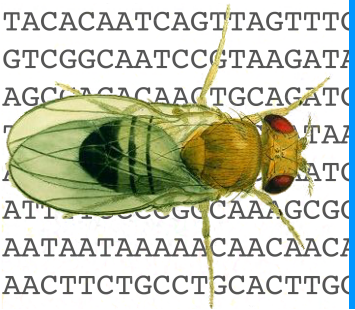
Commentary See all commentaries
NCBI updates of *Drosophila* annotations
Nov 19, 2015. NCBI has updated *D. melanogaster* on Oct 16, 2015 and RefSeq releases at NCBI found in our FB2015_04 release for those who wish to have analyses.... (More)

version FB2016_03, released May 24, 2016
Contact FlyBase Cite FlyBase

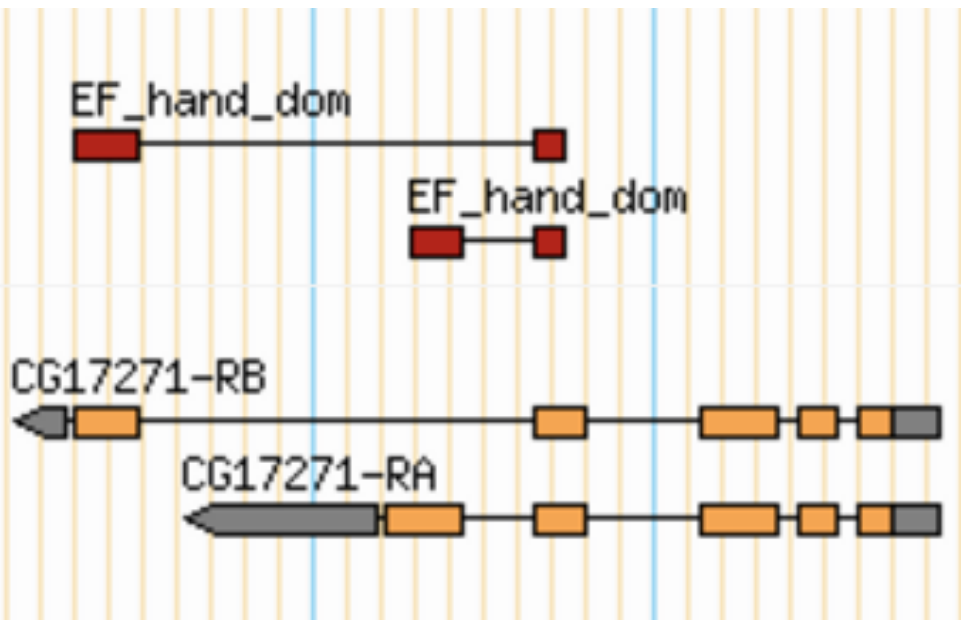
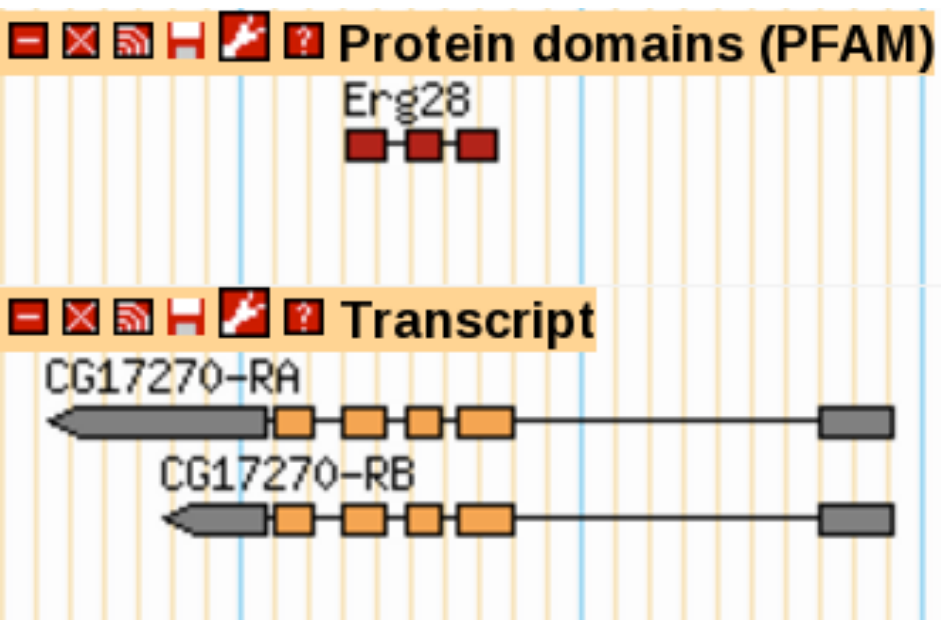
These slides are posted on FlyBase.

Key details are in pamphlets.

See our posters.



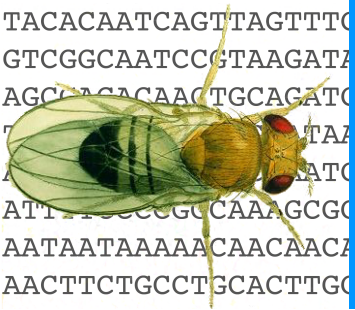
Protein Domains



Now available in GBrowse

Find the track in the “Aligned Evidence” section.

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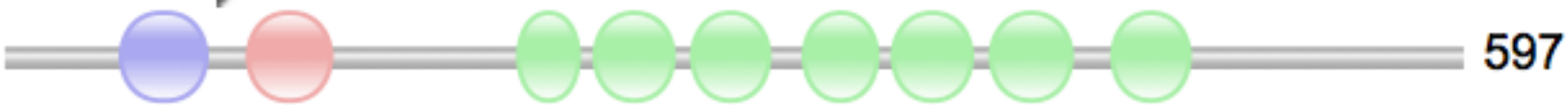
Protein Domains

coming soon

Beta-TrCP_D (PF12125)

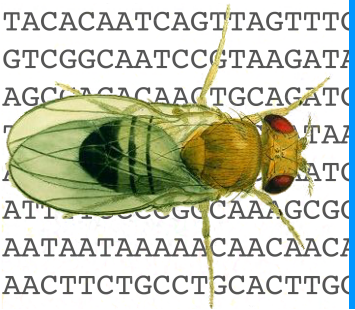
Description:
D domain of beta-TrCP [pfam]

Coordinates:
48 - 85



Poster (demo room)

Jim Thurmond - Improvements for 2016



Orthology Data

QuickSearch ?

Human Disease | Expression | GO | Phenotype | References

Simple | **Orthologs** NEW | Protein Domains | Gene Groups | Data Class

Enter gene symbol(s) or ID(s), separated by spaces **Search**

Input:
Species: Gene(s):

Output:
MODEL ORGANISMS (via **DIOPT** [instead search **OrthoDB** orthology groups])

- H. sapiens* (Human)
- M. musculus* (House mouse)
- X. tropicalis* (Western clawed frog)
- D. rerio* (Zebrafish)

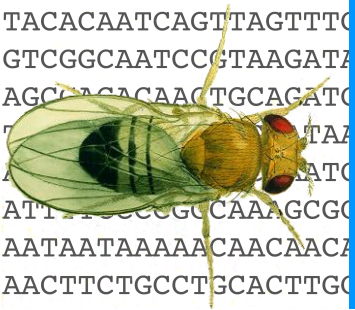
un/check all:

- D. melanogaster* (Fruit fly)
- C. elegans* (Nematode, roundworm)
- S. cerevisiae* (Brewer's yeast)
- S. pombe* (Fission yeast)

DRSC Integrative
Ortholog Prediction Tool
(model organisms)

OrthoDB
(fruit flies, insects, all metazoa)

TACACAATCAGTTAGTTTC
 GTCGGCAATCCGTAAGATA
 AGC...ACACAAC TGCACATC
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 AT...CCGGC CAAAGCGC
 AATAATAAAAAACAACA
 AACTTCTGCCTGCACTTGC



Orthology Data

Save results as tsv file Help

Search Term: **dpp** Species: **Drosophila melanogaster (Fruit fly)** Gene: **dpp** Reports: [NCBI](#) [FlyBase](#)

Via **DIOPT (v5.1.1)**

Ortholog Gene	Ortholog Gene Reports	Score	Best Score	Best Rev Score	Source	Align	Transgene in Fly
Homo sapiens (Human)							
BMP2	NCBI Ensembl HGNC OMIM	7	Yes	Yes (+)	Compara, Homologene, Inparanoid, Isobase, OrthoDB, Phylome, RoundUp	(+)	
BMP4	NCBI Ensembl HGNC OMIM	6	No	Yes (+)	Compara, Inparanoid, OrthoDB, orthoMCL, Phylome, RoundUp	(+)	Yes
GDF1	NCBI HGNC OMIM	1	No	Yes (+)	TreeFam	(+)	
GDF3	NCBI HGNC OMIM	1	No	Yes (+)	TreeFam	(+)	
Mus musculus (House mouse)							
Bmp2	NCBI MGI	7	Yes	Yes (+)	Compara, Homologene, Inparanoid, Isobase, OrthoDB, Phylome, RoundUp	(+)	
Bmp4	NCBI MGI	6	No	Yes (+)	Compara, Inparanoid, OrthoDB, orthoMCL, Phylome, RoundUp	(+)	
Gdf1	NCBI MGI	1	No	Yes (+)	TreeFam	(+)	
Gdf3	NCBI MGI	1	No	Yes (+)	TreeFam	(+)	
Xenopus tropicalis (Western clawed frog)							
bmp2	NCBI Xenbase	6	Yes	Yes (+)	Compara, Homologene, OMA, OrthoDB, Phylome, RoundUp	(+)	
bmp4	NCBI Xenbase	4	No	Yes (+)	Compara, OrthoDB, Phylome, RoundUp	(+)	
gdf1	NCBI Xenbase	1	No	Yes (+)	TreeFam	(+)	
gdf3	NCBI Xenbase	1	No	Yes (+)	TreeFam	(+)	
Danio rerio (Zebrafish)							
bmp2b	NCBI ZFIN	7	Yes	Yes (+)	Compara, Homologene, Inparanoid, OMA, OrthoDB, Phylome, RoundUp	(+)	
bmp2a	NCBI ZFIN	3	No	Yes (+)	Compara, Homologene, OrthoDB	(+)	
bmp4	NCBI ZFIN	3	No	Yes (+)	Compara, OrthoDB, orthoMCL	(+)	
bmp16	NCBI ZFIN	1	No	Yes (+)	Compara	(+)	
gdf6	NCBI ZFIN	1	No	Yes (+)	TreeFam	(+)	
Caenorhabditis elegans (Nematode, roundworm)							
dbl-1	NCBI WormBase	3	Yes	Yes (+)	Compara, Isobase, RoundUp	(+)	
tig-2	NCBI WormBase	1	No	No (+)	Inparanoid	(+)	
Saccharomyces cerevisiae (Brewer's yeast) - no orthologs found							
Schizosaccharomyces pombe (Fission yeast) - no orthologs found							

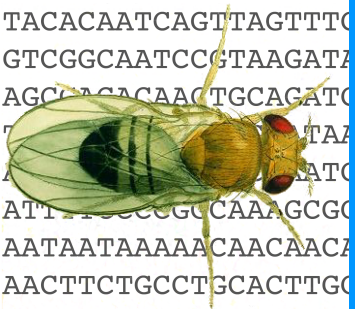
Scores

Transgene Data

Alignment

Linkouts

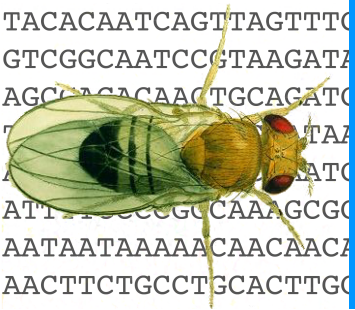




Orthology Data

View orthologs in Gene Reports

- Orthologs
- Human Orthologs (via DIOPT v5.1.1) (4)
- Model Organism Orthologs (via DIOPT v5.1.1) (19)
- Orthologs (via OrthoDB v7) (47)



Orthology Data

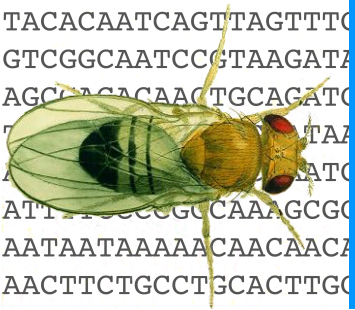
Poster D1529A

Steven J. Marygold - Enhanced orthology data in FlyBase.*
(Techniques Resources)

Thursday 2:30 - 3:30 PM
Friday 1:30 - 2:10 PM
Saturday 10:00 - 11:00 AM

*In collaboration with the DRSC (Claire Hu).

TACACAATCAGTTAGTTTC
 GTCGGCAATCCGTAAGATA
 AGC...ACAACACTGCACATC
 ...TAA...
 ...ATC...
 AT...CCGGCCAAAGCGC
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 AACTTCTGCCTGCACTTGC



Human Disease Model Report

General Information			
Name	amyotrophic lateral sclerosis 8	FlyBase ID	FBhh0000020
Disease Ontology ID	DOID:0050752	Parent Disease	amyotrophic lateral sclerosis
OMIM	AMYOTROPHIC LATERAL SCLEROSIS 8; ALS8	Parent Disease DOID	DOID:332

Overview

This report describes amyotrophic lateral sclerosis 8 (ALS8), which is a subtype of amyotrophic lateral sclerosis. The human gene implicated in this disease is VAPB, which is a member of the vesicle-associated membrane protein (VAMP)-associated protein (VAP) family. This gene is also associated with the disease spinal muscular atrophy, late-onset, Finkel type (OMIM:182980, FBhh0000254). There is a single fly ortholog, *Vap-33A*, for which classical amorphic and hypomorphic alleles, RNAi-targeting constructs, and alleles caused by insertional mutagenesis have been generated.

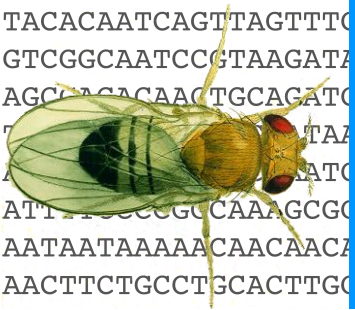
Multiple UAS constructs of the human gene have been introduced into flies, including wild-type VAPB and genes carrying mutational lesions implicated in ALS8 and SMAFK; phenotypes similar to aspects of the human disease are observed. Heterologous rescue has been demonstrated for one or more Dmel*Vap-33A* loss-of-function phenotypes.

For loss-of-function mutations in the Dmel*Vap-33A* gene, observed phenotypes include aspects similar to the human disease. Physical interactions of the Dmel*Vap-33A* protein product have been curated and may be found in the FlyBase report for that gene. Phenotypic assays using the human and fly genes have allowed characterization of genetic interactions.

[updated April 2016 by FlyBase; FBrf0222196]

Overview of disease and fly model

- ⊕ Disease Summary Information
- ⊕ Related Diseases
- ⊕ Ortholog Information
- ⊕ *D. melanogaster* Gene Information (1)
- ⊕ Synthetic Gene(s) Used (0)
- ⊕ Experimental Findings
- ⊕ Summary of Physical Interactions (16 groups)
- ⊕ Alleles Reported to Model Human Disease (Disease Ontology) (9 alleles)
- ⊕ Genetic Tools, Stocks and Reagents
- ⊕ References (16)



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Multiple UAS constructs of the human gene have been introduced into flies carrying mutational lesions implicated in ALS8 and SMAFK; phenotypes are observed. Heterologous rescue has been demonstrated for one or more phenotypes.

For loss-of-function mutations in the Dmel\Vap-33A gene, observed phenotypes are similar to those of the human disease. Physical interactions of the Dmel\Vap-33A protein product are reported in the FlyBase report for that gene. Phenotypic characterization of genetic interactions.

[updated April 2016 by FlyBase; FBfr0222166]

Related Diseases

Related human health report(s)

[spinal muscular atrophy, late onset, Finkel type](#)

Related Specific Diseases

OMIM phenotypic series

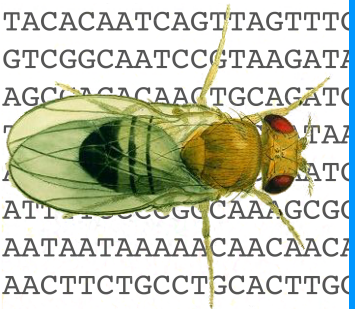
[Amyotrophic lateral sclerosis](#)

[Frontotemporal dementia and/or Amyotrophic Lateral Sclerosis](#)

Disease	Associated Human gene(s)	Drosophila model	Human transgene in Drosophila
ALS1	SOD1	amyotrophic lateral sclerosis 1	y
ALS4	SETX		
ALS5	SPG11		

Disease Summary Information	
+ Related Diseases	
+ D. melanogaster Gene Information (1)	
+ Synthetic Gene(s) Used (0)	
+ Experimental Findings	
+ Summary of Physical Interactions (16 groups)	
+ Alleles Reported to Model Human Disease (Disease Ontology) (9 alleles)	
+ Genetic Tools, Stocks and Reagents	
+ References (16)	

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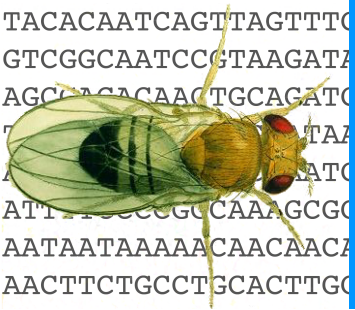


Human Disease Model Report

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Disease Summary Information			
Ortholog Information			
Synthetic Gene(s) Used (0)			
Experimental Findings			
Summary of Physical Interactions (16 groups)			
Alleles Reported to Model Human Disease (Disease Ontology) (9 alleles)			
Genetic Tools, Stocks and Reagents			
References (16)			

Ortholog Information	
Human gene(s) in FlyBase	
	Hsap\VAPB
Human gene (HGNC)	
Symbol / Name	VAPB; VAMP (vesicle-associated membrane protein)
D. melanogaster ortholog	DmelVap-33A

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 ...TAA...
 ...ATC...
 AT...CCGGCCAAAGCGC
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 AACTTCTGCCTGCACTTGC



Human Disease Model Report

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For loss-of-function mutations in the *Dmel\Vap-33A* gene, of human disease. Physical interactions of the *Dmel\Vap-33A* p in the FlyBase report for that gene. Phenotypic assays using characterization of genetic interactions.

[updated April 2016 by FlyBase; FBfr0222196]

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- ⊕ Related Diseases
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- ⊕ References (16)

Alleles Reported to Model Human Disease (Disease Ontology) (9 alleles)

Vap-33A

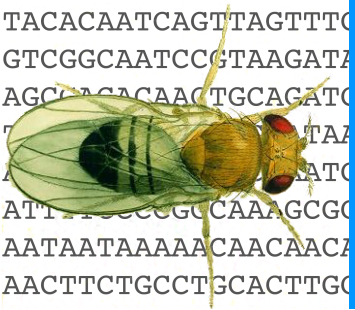
Models

Allele	Disease	Evidence	References
Vap-33A ^{T48I.Scer\UAS}	model of amyotrophic lateral sclerosis	inferred from mutant phenotype	(Chen et al., 2010)
Vap-33A ^{Scer\UAS.cPa}	model of neurodegenerative disease	inferred from mutant phenotype	(Sanhueza et al., 2014)
Vap-33A ^{P58S.cPa.Scer\UAS}	model of amyotrophic lateral sclerosis	inferred from mutant phenotype	(Ratnaparkhi et al., 2008)
Vap-33A ^{P58S.Scer\UAS.TZzzz\FLAG}	model of amyotrophic lateral sclerosis	inferred from mutant phenotype	(Forrest et al., 2013)
Vap-33A ^{P58S.Scer\UAS}	model of amyotrophic lateral sclerosis	inferred from mutant phenotype	(Tsuda et al., 2008)
Vap-33A ^{V260I.Scer\UAS}	model of motor neuron disease	inferred from mutant phenotype	(Chai et al., 2008)
Vap-33A ^{V260I.Scer\UAS}	model of neurodegenerative disease	inferred from mutant phenotype	(Sanhueza et al., 2014)
Vap-33A ^{A31}	model of amyotrophic lateral sclerosis type 8	inferred from mutant phenotype	(Moustaqim-Barrette et al., 2014)
Vap-33A ^{AL58}	model of amyotrophic lateral sclerosis type 8	in combination with Vap-33A ^{AL58}	(Moustaqim-Barrette et al., 2014)
Vap-33A ^{AL58}	model of amyotrophic lateral sclerosis type 8	in combination with Vap-33A ^{A31}	(Moustaqim-Barrette et al., 2014)

Interactions

Allele	Disease	Interaction	References
Vap-33A ^{A448}	ameliorates tauopathy	modeled by Hsap\MAPT ^{GMR.Ex.PJ}	(Karsten et al., 2006)
Vap-33A ^{P58S.cPa.Scer\UAS}	model of amyotrophic lateral sclerosis	is ameliorated by ssh ^{NIG.6238R}	(Devisigamani et al., 2014)
Vap-33A ^{P58S.cPa.Scer\UAS}	model of amyotrophic lateral sclerosis	is ameliorated by Top ^{HMS00904}	(Devisigamani et al., 2014)

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Search Human Disease Model Reports

QuickSearch ?

Human Disease Expression GO Phenotype References

Simple Orthologs **NEW** Protein Domains Gene Groups Data Class

Species: include non-Dmel species **Search**

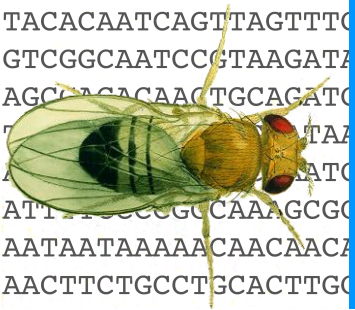
Enter text: **ALS**

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

Your query phrase "ALS" returned 303 matches

Hits	Data Class	Hits	Data Class
10	Genes	23	Alleles
1	Stocks	1	Insertions
228	References	0	Clones
1	Transcripts	1	Polypeptides
0	Aberrations	0	Balancers
1	Natural Transposons	19	Transgenic Constructs
0	Sequence Features	0	Large Dataset Metadata
0	Cell Lines	0	Physical Interactions
0	Strains	2	Gene Groups
16	Human Disease		

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AACTTCTGCCTGCACTTGC



Search Human Disease Model Reports

QuickSearch

Human Disease | Expression | GO | Phenotype | References

Simple | Orthologs **NEW** | Protein Domains | Gene Groups | Data Class

Disease term: **ALS** Search

Alternatively, [browse Human Disease reports](#)

Note: Wild

Annotations

Records which annotation includes this term

Data Class	Field
Alleles (FBal)	HUMAN_DISEASE_INTERACTIONS
Alleles (FBal)	HUMAN_DISEASE_MODELS
Human Diseases (FBhh)	DOID

Records which annotation includes this term OR any of its CHILDREN TERMS

Genes 53	Human Diseases 11	Alleles 130
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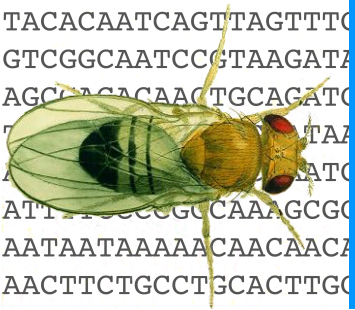
Results list data from ALL species. Please use [QueryBuilder](#) to retrieve species specific data.

Exact full annotation statements including this term, and relevant records

Spanning Tree (Parents/Children) | Only view relationship: | Search All Vocabularies for a Ne

```
neurodegenerative disease
|_ motor neuron disease
|   |_ amyotrophic lateral sclerosis 194 rec.
|       |_ amyotrophic lateral sclerosis type 22
|           |_ amyotrophic lateral sclerosis type 1 1 rec.
|               |_ amyotrophic lateral sclerosis type 2 1 rec.
|                   |_ amyotrophic lateral sclerosis type 3
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Search Human Disease Model Reports

QuickSearch ?

Human Disease

Expression

GO

Phenotype

References

Simple

Orthologs **NEW**

Protein Domains

Gene Groups

Data Class

Disease term:

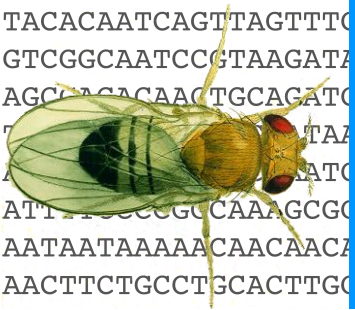
FlyBase Human Disease Model Report List

Alternatively **browse** Human Disease reports



Note: W

- **3-Methylglutaconic aciduria**
- **acute myeloid leukemia**
 - acute myeloid leukemia, RUNX1-RUNX1T1 fusion
- **Alexander disease**
- **alpha-1-antitrypsin deficiency**
- **Alzheimer disease**
 - Alzheimer disease 1
 - Alzheimer disease 3
 - Alzheimer disease 4
- **amyotrophic lateral sclerosis**
 - amyotrophic lateral sclerosis 1
 - amyotrophic lateral sclerosis 2
 - amyotrophic lateral sclerosis 6
 - amyotrophic lateral sclerosis 8



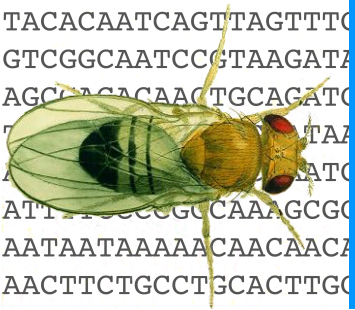
Human Disease Model Report

Poster D1389B

Sian Gramates - Human Disease Model Reports in FlyBase.
(Drosophila Models of Human Diseases)

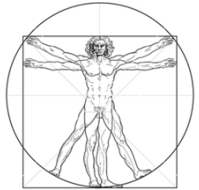
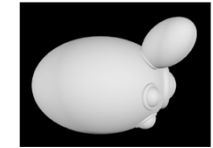
Thursday	2:30-3:30 PM
Friday	2:10-2:50 PM
Saturday	10:00-11:00 AM

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...TAA...
...ATC...
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AACTTCTGCCTGCACTTGC



Gene2Function

coming soon



Ortholog Search

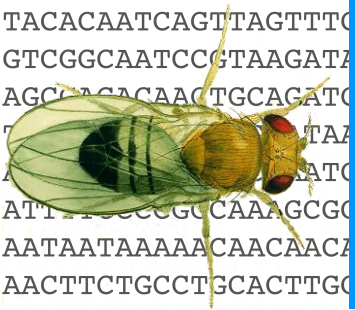
Enter Gene Symbol or Disease name



Breast cancer, Parkinson's, ADH4, PARK2, ...

This site is brought to you by [FlyBase](#) & the [DRSC](#)

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Gene2Function

coming soon

Genes (105)

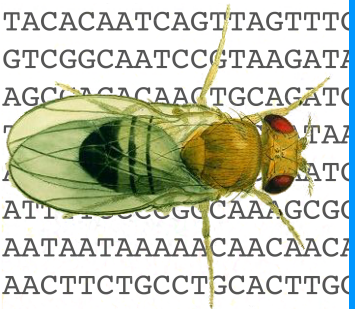
Diseases (6)

Filter by species

All

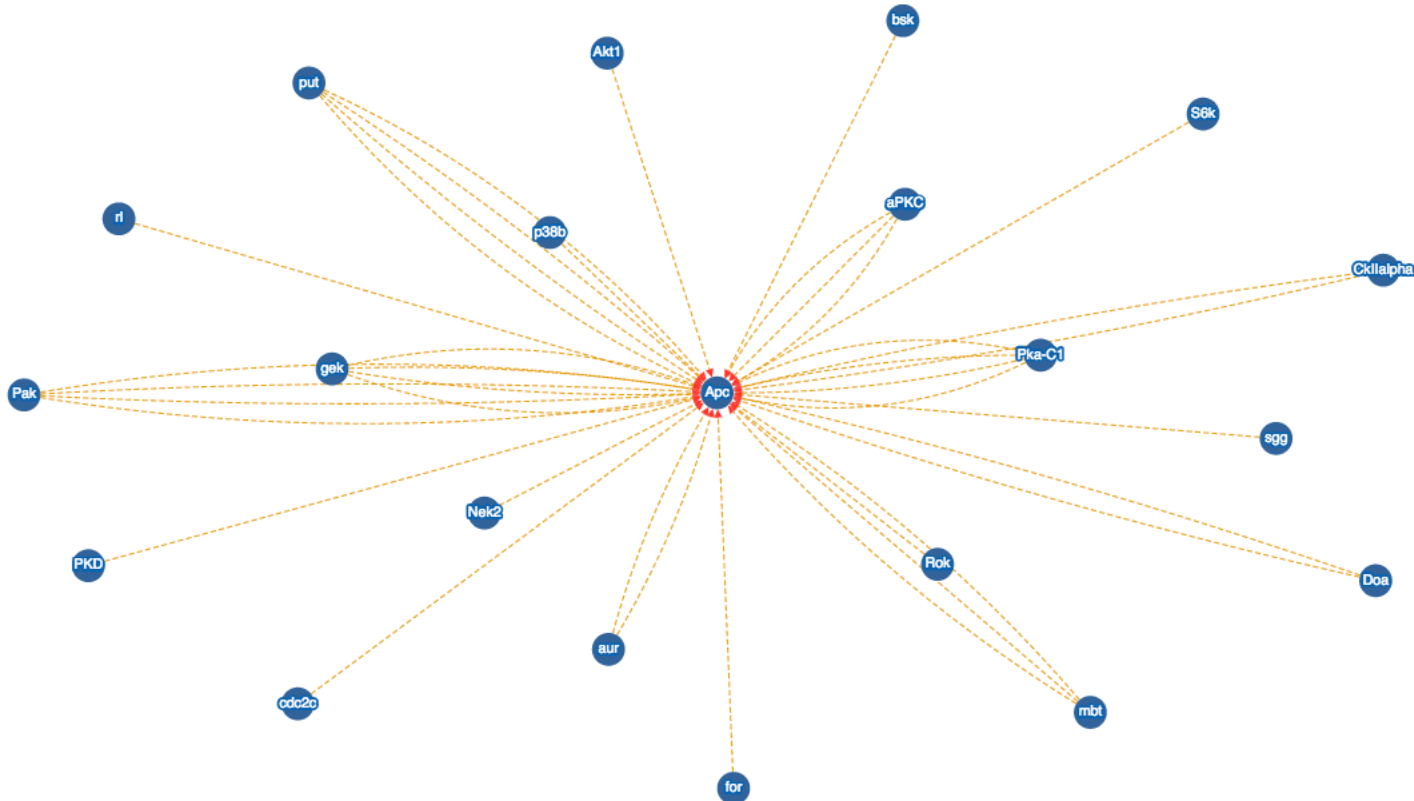
Symbol	Full Name	Organism	LinkOuts
apcdd1	adenomatosis polyposis coli down-regulated 1	<i>Xenopus tropicalis</i>	NCBI
APCS	amyloid P component, serum	<i>Homo sapiens</i>	NCBI
APCDD1L	adenomatosis polyposis coli down-regulated 1 like	<i>Homo sapiens</i>	NCBI
Apc	APC-like	<i>Drosophila melanogaster</i>	NCBI

TACACAATCAGTTAGTTTC
GTCGGCAATCCGTAAGATA
AGC...ACACAAC...TGCACATC
...TAA...
...ATC...
ATTT...CCCGGC...CAAAGCGC
AATAATAAAAA...CAACAACA
AACTTCTGCCTGC...ACTTGC



Gene2Function

coming soon



- PPI Options
- Interologs
- Genetic interactions
- Kinase Substrate
- Phospho Correlation
- Exp. Correlation
- Pheno. Correlation



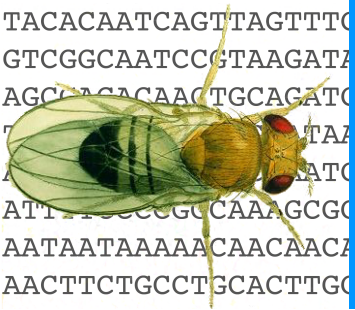
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Search Result

TACACAATCGATTAGTTTC
 GTCGGCAATCCGTAAGATA
 AGC...CACAACTGCACATC
 ...TAA
 ...ATC
 ATTT...CCGGCCAAAGCGC
 AATAATAAAAACAACAACA
 AACTTCTGCCTGCACTTGC



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All Resources	CRISPR	RNAi	Stocks	Model Organism Databases
Antibodies	Images	Neuroscience	Maps	Protocols

All Resources

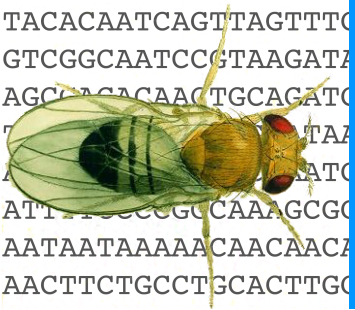
An extensive list of useful databases and reagent resources can be found on the pages linked below:

Drosophila Network Resources

Includes:

- Atlases, Images, and Videos
- CRISPRs and TALENs
- Data Repositories
- Data and Metadata for Drosophila Genomes
- Gene Expression Databases and Tools

TACACAATTCAGTTAGTTTTC
GTCGGCAATCCGTAAGATA
AGC...CACAACTGCACATC
TAA...
ATC...
AATAATAAAAAACAACAAC
AACTTCTGCCTGCACTTGC



Video Tutorials

FlyBase A Database of *Drosophila* Genes & Genomes
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Simple Orthologs **NEW** Protein Domains Gene Groups Data Class

Species: include non-Dmel species
Enter text:
Note: Wild cards (*) can be added to your search term

Commentary See all commentaries
NCBI updates of *Drosophila* annotations
Nov 19, 2015. NCBI has updated GenBank and RefSeq annotations for *D. melanogaster* on Oct 16, 2015 and Oct 19, 2015, respectively. The GenBank and RefSeq releases at NCBI correspond to FlyBase annotation release 6.07 as found in our FB2015_04 release. We recommend using this annotation release for those who wish to have a frozen reference annotation set for their analyses.... (More)

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GTCGGCAATCCGTAAGATAGCCAAATATTATTATGTTTCAGATACTCAC
AC...TGCAGATCCGTTGAGTGGGAAATCAGTGAAAT
TAA...
ATTTCCCGCCAAAGCGGACTTTTCGGAATGAATGAAATAAAAA
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FlyBase

FlyBase TV 42

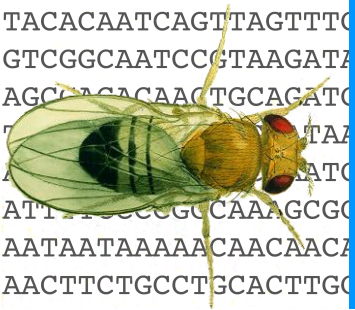
FlyBase - <http://flybase.org/> - is a genomic database for *Drosophila* species. Our channel FlyBase TV contains video tutorials that span a... Show more

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TACACAATCAGTTAGTTTC
GTCGGCAATCCGTAAGATA
AGC...ACAAC...TGCACATC
TAA...
AT...CCG...CAAAGCGC
AATAATAAAAAACAACAAC
AACTTCTGCCTGCACTTGC



Gene Snapshots

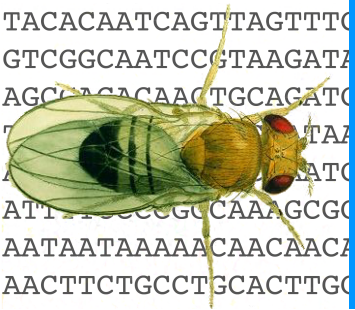
coming soon

General Information			
Symbol	Dmel\Egfr	Species	<i>D. melanogaster</i>
Name	Epidermal growth factor receptor	Annotation symbol	CG10079
Feature type	protein_coding_gene	FlyBase ID	FBgn0003731
Gene Model Status	Current	Stock availability	53 publicly available
Also known as	DER, top, flb, Efp, dEGFR, EGF-R, Efp-B1, top/DER, torpedo/egfr, Efp-1		
Gene Snapshot	Epidermal growth factor receptor (Egfr) is the transmembrane tyrosine kinase receptor for signalling ligands in the TGFalpha family (Gurken, Spitz, Vein, and Keren), which utilises the intracellular MAP kinase pathway. Egfr roles include growth regulation, cell survival and developmental patterning. [Date last reviewed: 2016-05-20]		

Submissions welcome!

<https://flybase.wufoo.eu/forms/fb-gene-snapshot-form/>

Pepe Urbano – jmu22@cam.ac.uk



Author Reagent Form

- Data type** (mandatory) Duplicate rows as needed. Order is flexible, but row titles should be preserved.
- gene (source not applicable)
- strain, strain_background
- genetic reagent (in whole organism)
- cell line
- transfected construct (in cell line)
- antibody
- recombinant DNA reagent
- sequence-based reagent
- peptide, recombinant protein
- large-scale dataset
- commercial assay
- chemical compound, drug
- software, algorithm
- other

Reagents can be clearly described by:
ID number
Source/Supplier
etc.

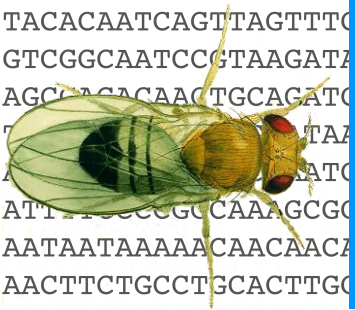
Fill it out as you go along.

Submit it in place of prose descriptions
(as permitted by publisher).

Please provide feedback!
(a work in progress)

Template and example available at:
flybase.org/journal/reagent_form/

TACACAATCGTTAGTTCCT
GTCGGCAATCCGTAAGATA
AGC...CACAACTGCACATC
TAA...
ATC...
ATTT...CCGGCCAAAGCGC
AATAATAAAAAACAACAAC
AACTTCTGCCTGCACTTGC



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A Database of *Drosophila* Genes & Genomes

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Poster (demo room)

Jose-Maria Urbano - FlyBase in the Community.