

Drosophila nomenclature

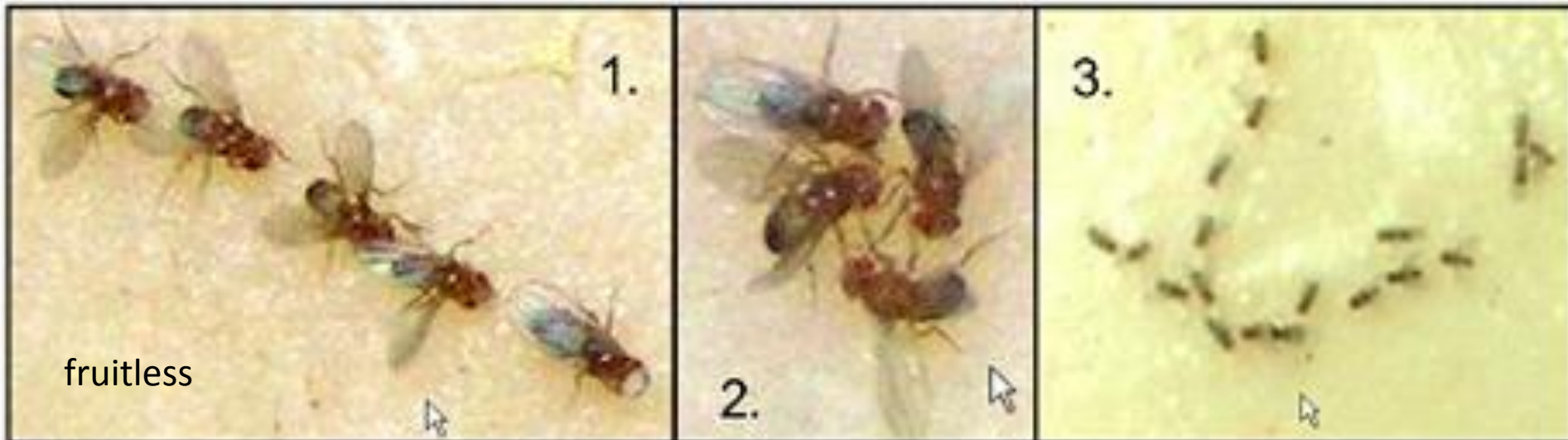
Advanced Genetics

2/25/16

Andrea Karl (Byrum)

Phenotypes

- Eye color
- Behavior
- Not italicized



Genes

- Named for mutant phenotype
 - lowercase if named for recessive mutant (ex: *white* (*w*))
 - Uppercase if named for dominant mutant or by homology (ex. *Shaker* (*Sh*))
- Placeholder names
 - *CG14307*
- Gene names
 - *fruitless*
- Gene symbols (abbreviation)
 - *fru*
- *Gene and allele names italicized*

Gene Dmellfru

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General Information

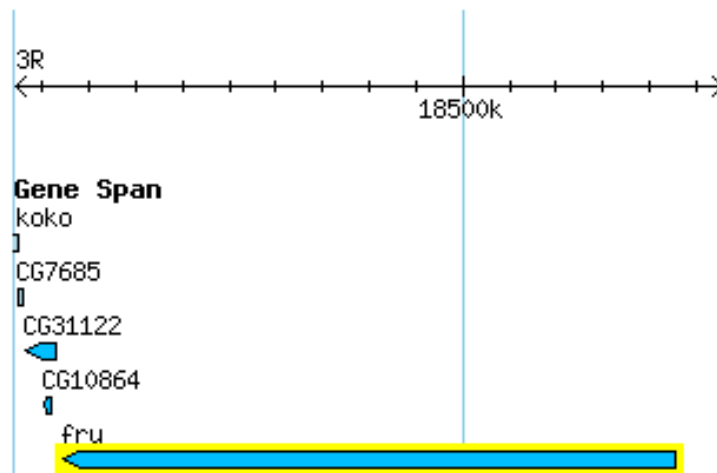
Symbol	Dmellfru	Species	<i>D. melanogaster</i>
Name	fruitless	Annotation symbol	CG14307
Feature type	protein_coding_gene	FlyBase ID	FBgn0004652
Gene Model Status	Current	Stock availability	36 publicly available
Also Known As	CG7689, CG7690, CG7688, BTB-VI, sat		

Genomic Location

Cytogenetic map	91A6-91B3	Sequence location	3R:18,414,273..18,545,586 [-]
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Genomic Maps

[GBrowse](#)



Decorated FASTA

[Get genome region](#)

Gene region ▼

[Get FastA](#)

Families, Domains and Molecular Function

Protein Family (UniProt , Sequence Similarities)	-
Protein Domains/Motifs	UniProt (Sequence Similarities) Contains 1 BTB (POZ) domain /EC0:0000255/PROSITE-ProRule:PRU100037/ (O8IN81) : Contains 1 C2H2-type

Mutations

- Relative to wild-type (e.g. Oregon-R)
 - fru^+
- X-linked mutations are written as superscripts to X chromosomes
 - X^w
- Alleles
 - Superscripts with numbered alleles: fru^1, fru^2, fru^3
 - Alternately: $fru[1], fru[2], fru[3]$
 - Frequently omitted or shorthand (fru, fru^*, fru^-) but leads to ambiguity

Genotypes

- Relative to wild-type
- Alleles listed in the order of the standard genetic map(1;Y;2;3;4)
- Genes separated by spaces
- Homologous chromosomes separated by /
 - $y^1 w^1 f^1$ implies $y^1 w^1 f^1 / y^1 w^1 f^1$
 - $y^1 w^1 f^1 / y^1 f^1$
- Non-homologous chromosomes separated by ;
 - $bw^1; e^s; ey^1$

Strains



FB2014_06, released November 12th, 2014

Stock Center Stock Record

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General Information			
Collection	Bloomington Drosophila Stock Center	Collection Type	stock center collection
Stock Number	5	Species	<i>D. melanogaster</i>
FlyBase ID	FBst0000005		
Stock List Description	Oregon-R-C		
FlyBase Genotype	Oregon-R-C		
State of Stock	living stock		
Classification	wild type		
To Request Stock	Copy the Stock Number above and go to the Center's order form		



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Bloomington Stock Report

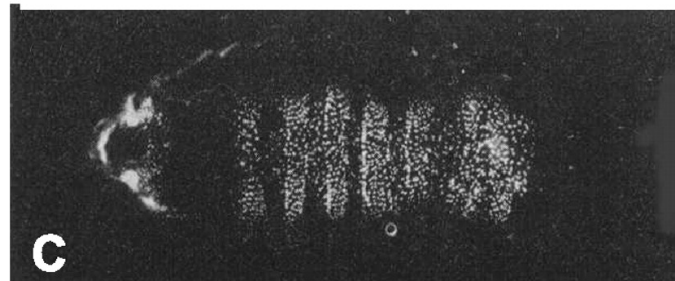
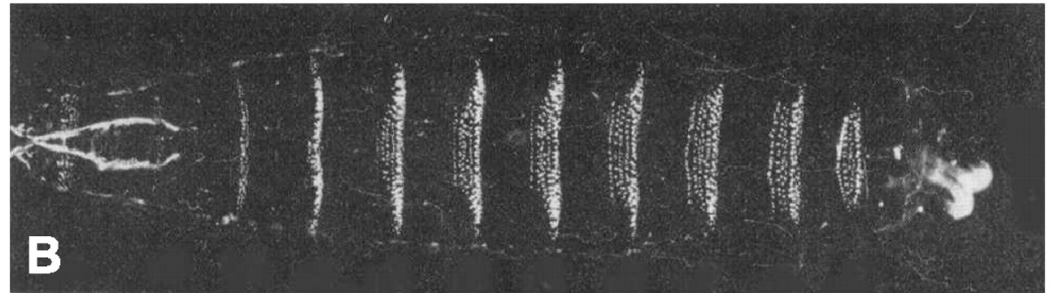
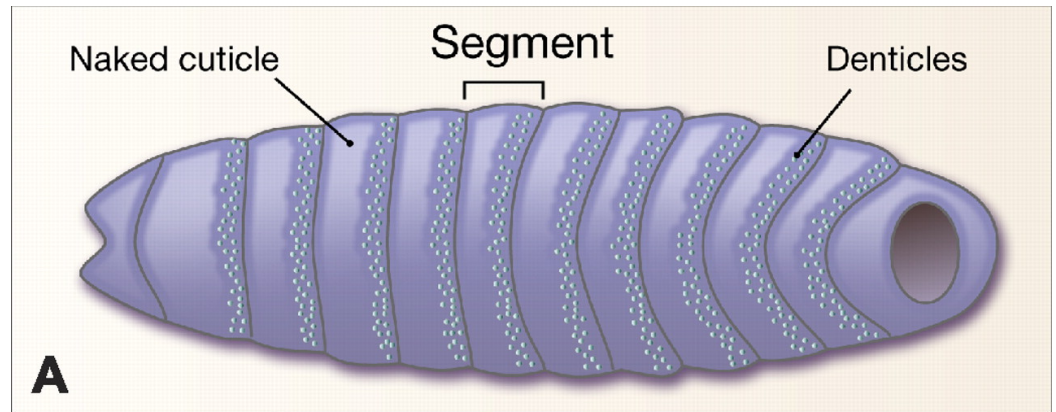
[Open a Stock Order Form](#)

Stock number	2057
Plain text genotype	iso-1 : y[1]; Gr22b[iso-1] Gr22d[iso-1] cn[1] CG33964[iso-1] bw[1] sp[1]; LysC[1] MstProx[iso-1] GstD5[1] Rh6[1]
Genotype with FlyBase links	iso-1 : y ¹ ; Gr22b ^{iso-1} Gr22d ^{iso-1} cn ¹ CG33964 ^{iso-1} bw ¹ sp ¹ ; LysC ¹ MstProx ^{iso-1} GstD5 ¹ Rh6 ¹
Chromosome(s) affected	1;2;3
Also known as	y[1]; cn[1] bw[1] sp[1]
Date added to collection	9/1/1994
Donor	Jim Kennison
Comments	strain used for whole genome shotgun sequence (Dmel WGS sequence), isogenized, but long since, Genetics 137:803 BDGP P1, BAC, cDNA, EDGP BAC and Celera plasmid libraries, per R. Hoskins (1/6/00); FlySNP line
FlyBase ID	FBst0002057
Date report created	2015-02-09

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Proteins

- The protein product(s) of the *hh* (*hedgehog*) gene
 - Hh
 - Hedgehog



- Not italicized

Sources

http://flybase.org/static_pages/docs/nomenclature/nomenclature3.html

http://flystocks.bio.indiana.edu/Fly_Work/nomenclature.htm

[http://en.wikipedia.org/wiki/Fruitless %28gene%29](http://en.wikipedia.org/wiki/Fruitless_%28gene%29)

<http://flybase.org/reports/FBgn0004652.html>

<http://flystocks.bio.indiana.edu/Reports/2057.html>

[http://www.exploratorium.edu/imaging-station/activities/classroom/wild mutant/ca wild mutant.php](http://www.exploratorium.edu/imaging-station/activities/classroom/wild_mutant/ca_wild_mutant.php)