**Drosophila Genomics Resource Center**

**Vector: pTGW (#1075)**

**List of publications citing DGRC and this vector**

**Last Updated via Google Scholar: July 2017**

 (in no particular order)

### [Knockdown of the Drosophila GTPase nucleostemin 1 impairs large ribosomal subunit biogenesis, cell growth, and midgut precursor cell maintenance](http://www.molbiolcell.org/content/20/20/4424.short)

R Rosby, Z Cui, E Rogers, [VL Robinson](https://scholar.google.com/citations?user=WUOQOxMAAAAJ&hl=en&oi=sra)… - Molecular biology of …, 2009 - Am Soc Cell Biol

**...** described, and then we recombined the RpL11 cDNA into **pTGW**, a similar **...** based transformation
plasmid engineered to express GFP-tagged fusions (**Drosophila** **Genomics** **Resource** **Center**)
from GAL4 **...** To confirm that **Drosophila** NS1 localizes to nucleolar granular regions, we **...**

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### [The Drosophila protein palmitoylome: characterizing palmitoyl-thioesterases and DHHC palmitoyl-transferases](http://www.tandfonline.com/doi/abs/10.4161/fly.6621)

BA Bannan, J Van Etten, JA Kohler, Y Tsoi, NM Hansen… - Fly, 2008 - Taylor & Francis

**...** Analysis of the Sophophora subgenus **genomes** indicates that the duplication event likely occurred
after the split between the **...** CG17287 54A2 **Genomic** PCR N N Tes2 **...** 30 The full-length Ppt2 cDNA,
EST GH02317 was obtained from the Berkeley **Drosophila** **Genome** Project and **...**

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### [HTML] [Tango1 spatially organizes ER exit sites to control ER export](http://jcb.rupress.org/content/216/4/1035.abstract)

M Liu, Z Feng, H Ke, Y Liu, T Sun, J Dai, W Cui… - J Cell Biol, 2017 - jcb.rupress.org

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[[HTML] rupress.org](http://jcb.rupress.org/content/190/3/407.full)

### [Drosophila Mtm and class II PI3K coregulate a PI (3) P pool with cortical and endolysosomal functions](http://jcb.rupress.org/content/190/3/407.short)

M Velichkova, J Juan, P Kadandale, S Jean… - The Journal of cell …, 2010 - jcb.rupress.org

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### [Filamin, a synaptic organizer in Drosophila, determines glutamate receptor composition and membrane growth](https://elifesciences.org/download/aHR0cHM6Ly9jZG4uZWxpZmVzY2llbmNlcy5vcmcvYXJ0aWNsZXMvMTk5OTEvZWxpZmUtMTk5OTEtdjEucGRm/elife-19991-v1.pdf?_hash=Tnt27ThL5gR1x8FtFJRlvTKunKhThN%2BUMnqNc9%2BbJWw%3D)

[GY Lee](https://scholar.google.com/citations?user=cS0GuFoAAAAJ&hl=en&oi=sra), TL Schwarz - Elife, 2016 - elifesciences.org

Page 1. 1 Filamin, a synaptic organizer in **Drosophila**, determines glutamate receptor
composition 1 and membrane growth 2 3 GaYoung Lee and Thomas L. Schwarz\* 4 5 The FM
Kirby Neurobiology **Center**, Boston Children's Hospital and Department of 6 **...**

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### [PDF] [The Drosophila protein palmitoylome](http://chembio.umich.edu/people/OLD/VanEtten.Fly.2008.pdf)

BA Bannan, J Van Etten, JA Kohler, Y Tsoi, NM Hansen… - 2008 - chembio.umich.edu

**...** Analysis of the Sophophora subgenus **genomes** indicates that the duplication event likely occurred
after the split between the **...** CG17287 54A2 **Genomic** PCR N N Tes2 **...** 30 The full-length Ppt2 cDNA,
EST GH02317 was obtained from the Berkeley **Drosophila** **Genome** Project and **...**

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### [Retinophilin is a light-regulated phosphoprotein required to suppress photoreceptor dark noise in Drosophila](http://www.jneurosci.org/content/30/4/1238.short)

KL Mecklenburg, N Takemori, N Komori… - Journal of …, 2010 - Soc Neuroscience

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[[HTML] carnegiescience.edu](https://emblegacy.carnegiescience.edu/labs/murphy/Gateway%20vectors.html)

### [HTML] [The Drosophila Gateway™ Vector Collection](https://emblegacy.carnegiescience.edu/labs/murphy/Gateway%20vectors.html)

A Bortvin, D Brown, CM Fan, SA Farber, JG Gall… - … - emblegacy.carnegiescience.edu

**...** How to get the vectors. Vectors are available from the **Drosophila** **Genomics** **Resource** **Center**
at Indiana University. **...** pHW. pHRW. D. pHWG. pHWC. pHWV. pHWH. pHWM. pHWF. pHFMW.
pHWR. E. **pTGW**. pTCW. pTVW. pTHW. pTMW. pTFW. pTFHW. pTW. pTRW. F. pTWG. pTWC **...**

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### [Regulation of autophagy by the Unc51 family kinases Atg1 and ADUK in Drosophila melanogaster](http://search.proquest.com/openview/dffd863e8e9e4c8cdafa9b96ea3e2ad6/1?pq-origsite=gscholar&cbl=18750&diss=y)

CR Braden - 2015 - search.proquest.com

**...** locus associated with hypertension in several **genome**-wide association **...** UAS-ADUK: **Drosophila**
ADUK cDNA GM08204 (**Drosophila** **Genomics** **Resource** **Center**, Bloomington, IN **...** clone was
subsequently recombined into **pTGW** (**Drosophila** **Genomic** **Resource** **Center**) to create **...**

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### [Loss of Drosophila nucleostemin 2 (NS2) blocks nucleolar release of the 60S subunit leading to ribosome stress](http://link.springer.com/article/10.1007/s00412-016-0597-2)

Y Wang, P DiMario - Chromosoma, 2017 - Springer

**...** into the **pTGW** destination vector (N-terminal eGFP-NS2) (**Drosophila** **Genomics** **Resource** **Center**)
for fly **...** Recombinant plasmids **pTGW**-NS2 (expressing GFP-NS2) and pUAST-RNAi-NS2 **...** 2
Immunoblots characterizing antibody specificities against **Drosophila** NS1 and NS2. **...**

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### [High-throughput screening of bacterial protein localization](http://www.sciencedirect.com/science/article/pii/S0076687910710119)

JN Werner, Z Gitai - Methods in enzymology, 2010 - Elsevier

**...** ligating with a similarly digested Gateway cassette PCR product amplified from **pTGW** (**Drosophila**
**Genomics** **Resource** **Center**). **...** and ligated with a similarly digested PCR product amplified from
**pTGW**. **...** a large expense when used at the scale of cloning the Caulobacter **genome**. **...**

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[[HTML] nih.gov](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3888490/)

### [SIDL interacts with the dendritic targeting motif of Shal (K v 4) K+ channels in Drosophila](http://www.sciencedirect.com/science/article/pii/S1044743110001326)

F Diao, J Chaufty, G Waro, S Tsunoda - Molecular and Cellular …, 2010 - Elsevier

**...** We chose to use the projection neurons (PNs) of the antennal lobe of the adult **Drosophila** brain
because axonal and dendritic processes are **...** input from olfactory receptor neurons, as well as
an axonal projection that extends in the opposite direction to higher **centers** in the brain **...**

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### [A Drosophila model of Huntington disease-like 2 exhibits nuclear toxicity and distinct pathogenic mechanisms from Huntington disease](https://academic.oup.com/hmg/article-abstract/25/15/3164/2525790)

M Krench, RW Cho, [JT Littleton](https://scholar.google.com/citations?user=Dd4dphgAAAAJ&hl=en&oi=sra) - Human molecular genetics, 2016 - academic.oup.com

**...** Article Navigation. A **Drosophila** model of Huntington disease-like 2 exhibits nuclear
toxicity and distinct pathogenic mechanisms from Huntington disease. Megan Krench
Megan Krench. 1. The Picower Institute for Learning and **...**

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### [Sbf/MTMR13 coordinates PI (3) P and Rab21 regulation in endocytic control of cellular remodeling](http://www.molbiolcell.org/content/23/14/2723.short)

S Jean, S Cox, EJ Schmidt, FL Robinson… - Molecular biology of the …, 2012 - Am Soc Cell Biol

**...** functions. We found that **Drosophila** MTM pseudophosphatase Sbf coordinates both
phosphatidylinositol 3-phosphate (PI(3)P) turnover and Rab21 GTPase activation in
an endosomal pathway that controls macrophage remodeling. **...**

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### [Meru couples planar cell polarity with apical-basal polarity during asymmetric cell division](https://elifesciences.org/download/aHR0cHM6Ly9jZG4uZWxpZmVzY2llbmNlcy5vcmcvYXJ0aWNsZXMvMjUwMTQvZWxpZmUtMjUwMTQtdjEucGRm/elife-25014-v1.pdf?_hash=WCAXRrIArXE0T7zv6pFfJFpBjMSkHUn%2Fee8%2Bb6a1OWM%3D)

JJ Banerjee, BL Aerne, MV Holder, [S Hauri](https://scholar.google.com/citations?user=fSna9iwAAAAJ&hl=en&oi=sra), [M Gstaiger](https://scholar.google.com/citations?user=HU7AXbIAAAAJ&hl=en&oi=sra)… - eLife, 2017 - elifesciences.org

**...** Kingdom; 2Department of Biology, Institute of Molecular Systems Biology, ETH Zu¨ rich, Zu¨ rich,
Switzerland; 3Competence **Center** Personalized Medicine **...** In **Drosophila** sensory organ precursors
(SOPs), the core PCP components initiate the planar polarization of apical-basal **...**

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### [HTML] [Staying alive: dalmatian mediated blocking of apoptosis is essential for tissue maintenance](http://onlinelibrary.wiley.com/doi/10.1002/dvdy.22281/full)

[BE Kerman](https://scholar.google.com/citations?user=d4Eus08AAAAJ&hl=en&oi=sra), DJ Andrew - Developmental Dynamics, 2010 - Wiley Online Library

**...** The **Drosophila** trachea and salivary gland have proven to be excellent genetically
tractable systems for revealing the molecules and mechanisms underlying embryonic
tube formation (Kerman et al.,2006). The **Drosophila** trachea **...**

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### [Reshaping of global gene expression networks and sex‐biased gene expression by integration of a young gene](http://emboj.embopress.org/content/31/12/2798.short)

S Chen, X Ni, BH Krinsky, [YE Zhang](https://scholar.google.com/citations?user=QUMWJ5YAAAAJ&hl=en&oi=sra)… - The EMBO …, 2012 - emboj.embopress.org

**...** Xiaochun Ni. Department of Ecology and Evolution, The University of Chicago, Chicago, IL,
USA Institute for **Genomics** and Systems Biology, The University of Chicago and Argonne
National Laboratory, Chicago, IL, USA. Find this author on Google Scholar;

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### [Investigation into the role of Zn72D and Belle in the regulation of Drosophila dosage compensation](http://search.proquest.com/openview/9603c721dc968b88e39c116dd4a086ee/1?pq-origsite=gscholar&cbl=18750&diss=y)

KA Worringer - 2007 - search.proquest.com

**...** Gal4-expressing S2 cells were transfected with the **pTGW**-Zn72D and a stable cell line was
selected. **...** The centroided peak lists of the CID spectra were searched against the National **Center**
for Biotechnology Information (NCBI) **Drosophila** melanogaster protein **...**

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[[](http://drum.lib.umd.edu/bitstream/handle/1903/11169/Hill_umd_0117E_11728.pdf?sequence=1)

### [Characterization of Atg6 function in autophagy and growth control during Drosophila melanogaster development](http://drum.lib.umd.edu/handle/1903/11169)

JH Hill - 2010 - drum.lib.umd.edu

Page 1. ABSTRACT Title of Document: CHARACTERIZATION OF ATG6 FUNCTION IN
AUTOPHAGY AND GROWTH CONTROL DURING **DROSOPHILA** MELANOGASTER
DEVELOPMENT **...** transformation in beclin 1+/- animals. Using the fruit fly, **Drosophila** melanogaster, **...**

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### [HTML] [Autophagy in Drosophila ovaries is induced by starvation and is required for oogenesis](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3131947/)

[JMI Barth](https://scholar.google.com/citations?user=HoPYGrgAAAAJ&hl=en&oi=sra), J Szabad, E Hafen… - Cell death and …, 2011 - ncbi.nlm.nih.gov

**...** 38 fs(1)K10, 39 Df(3L)BSC613, FRT80-UbiGFP, FRT82-UbiGFP and Act<CD2<Gal4 UAS-GFP
(Bloomington **Drosophila** Stock **Center**, Indiana University **...** 3′ 5′ GTT AAT TTT GGC CAT GCC
G-3′) coding regions were PCR amplified and cloned into **pTGW** and pPGW **...**

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### [HTML] [Drosophila eyes absent is a novel mRNA target of the tristetraprolin (TTP) protein DTIS11](https://www.ncbi.nlm.nih.gov/pmc/articles/pmc3341602/)

PA Yeh, WH Yang, [PY Chiang](https://scholar.google.com/citations?user=4nYbZ0YAAAAJ&hl=en&oi=sra), SC Wang… - … journal of biological …, 2012 - ncbi.nlm.nih.gov

**...** In mammals, a **genome**-wide study estimated that 40-50% of changes in gene expression **...** For
these reactions, **pTGW**-DTIS11, pCMV-FLAG-DTIS11, and pCMV-FLAG-TTP were used as **...** **Center**;
and UAS-dTIS11 RNAi flies were obtained from the Vienna **Drosophila** RNAi **Center** **...**

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### [BOOK] [The role of lipid droplets in regulating histone metabolism](http://search.proquest.com/openview/8ae930ce60a613516054ace004303aa8/1?pq-origsite=gscholar&cbl=18750&diss=y)

Z Li - 2014 - search.proquest.com

**...** non-chromatin histone proteins, enough to package thousands of **genomes** (Cermelli et al **...** promoter,
a Gateway recombination reaction (Invitrogen) into the **pTGW** (**Drosophila** **Genomics** **Resources**
**Center**) or pUbi **...** FlyBase and will be present in FlyBase Dmel **genome** release R5 **...**

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### [The evolutionarily conserved protein CG9186 is associated with lipid droplets, required for their positioning and for fat storage](http://jcs.biologists.org/content/126/10/2198.short)

K Thiel, C Heier, V Haberl, PJ Thul, M Oberer, A Lass… - J Cell Sci, 2013 - jcs.biologists.org

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[

### [The phosphoinositide-associated protein Rush hour regulates endosomal trafficking in Drosophila](http://www.molbiolcell.org/content/23/3/433.short)

I Gailite, D Egger-Adam, [A Wodarz](https://scholar.google.com/citations?user=YYF81ikAAAAJ&hl=en&oi=sra) - Molecular biology of the cell, 2012 - Am Soc Cell Biol

**...** Thus the FYVE domain of Rush is the first FYVE domain described in **Drosophila** that mediates
both endosome targeting and localization to the plasma **...** The loss of sta was rescued by a
transgenic construct that contains the **genomic** sequence of sta (Melnick et al., 1993). **...**

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### [PDF] [The role of Dynamin in muscle remodeling and maintenance](http://escholarship.org/uc/item/6km8c1m8.pdf)

JKT Nguyen - 2011 - escholarship.org

**...** 10 **Drosophila** embryos into adult flies is temporally dependent on temperature. **...** depletion or
overexpression, integrin was imaged both at the muscle surface and **center** using a **...** surface
sections showed a striated, costameric βPS pattern, while muscle **centers** had periodic, **...**

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### [Analysis of a second Drosophila Cornichon Protein](http://kups.ub.uni-koeln.de/5663/)

W Wojciech - 2014 - kups.ub.uni-koeln.de

**...** 28 2.2.12 Extraction of **genomic** DNA . . . . . **...** ology. Besides the classical advantages like the short
generation time of only ten days and the high number of progeny, the **Drosophila** **genome** is
also completely sequenced since the year 2000 [Adams et al., 2000]. **...**

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### [Wild-type and A315T mutant TDP-43 exert differential neurotoxicity in a Drosophila model of ALS](https://academic.oup.com/hmg/article-abstract/20/12/2308/2527020)

PS Estes, A Boehringer, R Zwick… - Human molecular …, 2011 - academic.oup.com

**...** Wild-type and A315T mutant TDP-43 exert differential neurotoxicity in a **Drosophila** model of
ALS. **...** With several missense mutations being identified within TDP-43, efforts have been directed
towards generating animal models of ALS in mouse, zebrafish, **Drosophila** and worms. **...**

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### [Drep-2 is a novel synaptic protein important for learning and memory](https://elifesciences.org/download/aHR0cHM6Ly9jZG4uZWxpZmVzY2llbmNlcy5vcmcvYXJ0aWNsZXMvMDM4OTUvZWxpZmUtMDM4OTUtdjEucGRm/elife-03895-v1.pdf?_hash=rA9Lmp0UTUklsO0flbYOKp6jvIgZ8C8djGnPym%2FH150%3D)

TFM Andlauer, S Scholz-Kornehl, R Tian, M Kirchner… - Elife, 2014 - elifesciences.org

**...** and Biochemisty, Freie Universität Berlin, Berlin, Germany; 6Department Laboratory of Glia Biology,
Vlaams Instituut voor Biotechnologie (VIB) **Center** for the **...** Drep-2 was found at synapses throughout
the **Drosophila** brain and was strongly enriched at mushroom body input **...**

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### [Developmental Strategy for Generating Sensory Neuron Diversity](http://search.proquest.com/openview/6d9b5a3370030d58885747a1de023af7/1?pq-origsite=gscholar&cbl=18750&diss=y)

Q Li - 2015 - search.proquest.com

**...** and recombination have led to large OR gene clusters in mammalian **genomes** (Kambere and **...**
of these factors are evolutionarily conserved, and are involved in patterning **Drosophila** antennal
field. **...** by typically expressing a single receptor gene from a large **genomic** repertoire. **...**

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### [Characterization of a Fasciola gigantica protein carrying two DM9 domains reveals cellular relocalization property](http://www.sciencedirect.com/science/article/pii/S0166685116300160)

W Phadungsil, [PM Smooker](https://scholar.google.com/citations?user=Jd41xOYAAAAJ&hl=en&oi=sra), S Vichasri-Grams… - Molecular and …, 2016 - Elsevier

**...** Even at the present age of whole-organism analysis, eg, **genomics**, transcriptomics, and
proteomics, the **...** repeat motif of unknown function first noticed in the model organism **Drosophila**
melanogaster [4 **...** Mice used in this study were maintained at the animal housing **facility** of the **...**

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### [BOOK] [Formation and maintenance of epithelial tubes: From mechanics to cell death](http://search.proquest.com/openview/844544c1a1cb65890d5e76c0203438d2/1?pq-origsite=gscholar&cbl=18750&diss=y)

BE Kerman - 2009 - search.proquest.com

**...** in the cell, in collaboration with another graduate student in the lab, I showed that Lola-like (Lolal),
which was identified as a potential interacting protein in a **genome**-wide yeast two **...** cells and maps
within a **genomic** region required for tracheal development. **...** **Drosophila** airways. **...**

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### [BOOK] [Origin of essential functions and evolution of phenotypes](http://search.proquest.com/openview/971c7ba3ac3681e0b7eafd335b81cfa9/1?pq-origsite=gscholar&cbl=18750&diss=y)

[S Chen](https://scholar.google.com/citations?user=2jFfuT8AAAAJ&hl=en&oi=sra) - 2011 - search.proquest.com

**...** Recently available **genome** sequences from 12 closely related **Drosophila** species (Clark et al.,
2007 **...** Using well-established comparative **genomics** methods (Bai et al., 2007; Vibranovski et
al., 2009b **...** events of new protein-coding genes in the D. melanogaster **genome** to the **...**

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### [BOOK] [Regulation of the PRICKLE1 and PRICKLE2 genes and their role in autism spectrum disorders](http://search.proquest.com/openview/dc46b615accb713f50f428c7a3cca7d5/1?pq-origsite=gscholar&cbl=18750&diss=y)

L Paemka - 2014 - search.proquest.com

**...** to recombine the N-terminal pk entry vector with a UASt-EGFP (**pTGW**) destination vector **...** The
pUAST-EGFP-pk construct was submitted to Model System **Genomics** (Duke University **...** Web End
=Syn97 ) were obtained from the Bloomington **Drosophila** Stock **Center** (stock number **...**

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### [Methods And Compositions Comprising A Drosophila Model Of Amyotrophic Lateral Sclerosis](https://www.google.com/patents/US20150143553)

[D Zarnescu](https://scholar.google.com/citations?user=41nF80QAAAAJ&hl=en&oi=sra), PS Estes - US Patent App. 14/508,610, 2014 - Google Patents

**...** [0012]. FIG. 5 shows an amino acid sequence comparison between **Drosophila** (fly) and human
(hu) TDP-43. **...** [0017]. FIG. 10 shows a dominant modifier genetic screen in the eye identified two
candidate **genomic** regions as TDP-43 interactors. Genotypes are as indicated. **...**

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### [Atg1‐independent induction of autophagy by the Drosophila Ulk3 homolog, ADUK](http://onlinelibrary.wiley.com/doi/10.1111/febs.13906/full)

CR Braden, TP Neufeld - The FEBS journal, 2016 - Wiley Online Library

**...** UAS-GFP-ADUK. The ADUK coding sequence was amplified from cDNA GM08204
with flanking attB sites, recombined into pDONOR 221 (Invitrogen, Carlsbad, CA, USA),
and subsequently recombined into **pTGW** (**DGRC**). Survival. **...**

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### [The evolutionarily conserved protein CG9186 is associated with lipid droplets, required for their positioning and for fat storage](http://jcs.biologists.org/content/126/10/2198.short)

K Thiel, C Heier, V Haberl, PJ Thul, M Oberer, A Lass… - J Cell Sci, 2013 - jcs.biologists.org

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### [Analysis of a second Drosophila Cornichon Protein](http://kups.ub.uni-koeln.de/5663/)

W Wojciech - 2014 - kups.ub.uni-koeln.de

Page 1. Analysis of a second Drosophila Cornichon Protein Inaugural-Dissertation zur Erlangung
des Doktorgrades der Mathematisch-Naturwissenschaftlichen Fakultät der Universität zu Köln
vorgelegt von Waldemar Wojciech aus Laurahütte Köln, 2014 Page 2. **...**

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### [Regulation of the Rac GTPase pathway by the multifunctional Rho GEF Pebble is essential for mesoderm migration in the Drosophila gastrula](http://dev.biologists.org/content/136/5/813.short)

A van Impel, S Schumacher, M Draga, HM Herz… - …, 2009 - dev.biologists.org

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### [HTML] [Fly-FUCCI: A versatile tool for studying cell proliferation in complex tissues](http://www.sciencedirect.com/science/article/pii/S2211124714001983)

N Zielke, J Korzelius, M van Straaten, K Bender… - Cell reports, 2014 - Elsevier

One promising approach for in vivo studies of cell proliferation is the FUCCI system
(fluorescent ubiquitination-based cell cycle indicator). Here, we report t.

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### [SIDL interacts with the dendritic targeting motif of Shal (K v 4) K+ channels in Drosophila](http://www.sciencedirect.com/science/article/pii/S1044743110001326)

F Diao, J Chaufty, G Waro, S Tsunoda - Molecular and Cellular …, 2010 - Elsevier

Shal K+ (Kv4) channels in mammalian neurons have been shown to be localized exclusively
to somato-dendritic regions of neurons, where they function as key deter.

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### [Characterization of Atg6 function in autophagy and growth control during Drosophila melanogaster development](http://drum.lib.umd.edu/handle/1903/11169)

JH Hill - 2010 - drum.lib.umd.edu

Page 1. ABSTRACT Title of Document: CHARACTERIZATION OF ATG6 FUNCTION
IN AUTOPHAGY AND GROWTH CONTROL DURING DROSOPHILA MELANOGASTER
DEVELOPMENT Jahda Hope Hill, Doctor of Philosophy, 2010 **...**

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### [Centrosomin represses dendrite branching by orienting microtubule nucleation](http://search.proquest.com/openview/30f2ecfea5311a62b347b809bf36aa6f/1?pq-origsite=gscholar&cbl=44706)

[C Yalgin](https://scholar.google.com/citations?user=KSxgU1QAAAAJ&hl=en&oi=sra), S Ebrahimi, C Delandre… - Nature …, 2015 - search.proquest.com

**...** Full length Drosophila Lis1 coding sequence (**DGRC** Gold cDNA clone LD11219) was subcloned
into **pTGW** vector to generate N-terminal EGFP-tagged, or pTRW vector for N-terminal
mRFP-tagged Lis1, and transgenic Drosophila generated by standard injection. **...**

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