

Stock list

ID – stock identity

“Wb+” stock is Wolbachia carrier

“Wb-” Wolbachia free stock

GAL4 lines

Bloomington Drosophila Stock Center, Indiana University, USA

<http://flystocks.bio.indiana.edu/>

Description	Genotype	Breakpoints	ID	Wb
Expresses GAL4 ubiquitously	y[1] w[1118]; P{w[+mC]=UAS-mCD8::GFP.L}LL6, P{w[+mC]=tubP-GAL4}LL7/TM3, Sb[1]	3	30030	---
Expresses GAL4 ubiquitously under control of Act5C promoter (P{AyGAL4} with the y[+] FRT cassette flipped out); miniwhite marker has been removed	y[1] w[*]; P{Act5C-GAL4-w}E1/CyO	2	25374	---
Expresses GAL4 ubiquitously	w[*]; P{w[+mC]=UASp-GFP.Golgi}1, P{w[+mC]=tubP-GAL4}LL7/TM3, Sb[1]	3	30904	---
Expresses GAL4 in the nervous system	w[*]; P{w[+mC]=GAL4-elav.L}3*	3	8760	Wb-
Expresses GAL4 in the nervous system	P{w[+mC]=GAL4-elav.L}2/CyO	2	8765	Wb-
Expresses GAL4 exclusively in the nervous system (glia).	w[*]; P{w[+mC]=nrv2-GAL4.S}8 P{w[+mC]=UAS-GFP.S65T}eg[T10]	78F3	6794	Wb+
Expresses GAL4 pan-neuronally under the control of n-syb	w[1118]; Pin[1]/CyO; P{y[+t7.7]}w[+mC]=nSyb-GAL4.P}attP2, P{w[+mC]=UAS-mCD8::GFP.L}LL6	3	51944	---
Expresses GAL4 in the neurons under the control of Appl	P{w[+m*]=Appl-GAL4.G1a}1, y[1] w[*]; Mlf[Delta10]/CyO	1	30546	Wb-
Expresses GAL4 in a tsh[+] pattern, UAS drives y[+], P{GawB}md621 is viable, y and w alleles are a guess, G.M.	y[1] w[1118]; P{w[+mW.hs]=GawB}tsh[m d621]/CyO; P{w[+mC]=UAS-y.C}MC1/TM2	40A5	3040	Wb+
Expresses GAL4 in glia.	w[1118]; P{w[+m*]=GAL4}repo/TM3 , Sb[1]	90F9-10	7415	---
Expresses GAL4 in fat body	y[1] w[*]; P{w[+mC]=r4-GAL4}3	3	33832	---
GAL4 expressed specifically in cholinergic neurons, P.S.; homozygous viable, but stock is healthier with balancer, K.M.	w[1118]; P{w[+mC]=Cha-GAL4.7.4}19B/CyO, P{ry[+t7.2]=sevRas1.V12}FK 1	1;2	6798	---

Expresses GAL4 specifically in cholinergic neurons	w[*]; P{w[+mC]=ChAT-GAL4.7.4}19B P{w[+mC]=UAS-GFP.S65T}Myo31DF[T2]	2	6793	---
Expresses GAL4 in dopaminergic and serotonergic neurons, J.H.	w[1118]; P{w[+mC]=Ddc-GAL4.L}4.36	1;3	7009	---
Expresses GAL4 in the pattern of the tyrosine decarboxylase 1 gene.	w[*]; P{w[+mC]=Tdc1-GAL4.C}3/TM3, Ser[1]	3	9312	---
Expresses GAL4 in the pattern of the tyrosine decarboxylase 2 gene.	w[*]; P{w[+mC]=Tdc2-GAL4.C}2	2	9313	---
Expresses GAL4 in the pattern of the tryptophan hydroxylase gene.	w[1118]; P{w[+mC]=Trh-GAL4.long}2	2	38388	---
Expresses GAL4 in the pattern of the tryptophan hydroxylase gene.	w[1118]; P{w[+mC]=Trh-GAL4.long}3	3	38389	---
Expresses GAL4 in the glial cells that produce the glutamate transporter EAAT1. May be segregating TM3, Sb[1], S.B.	w[*]; P{w[+mC]=Eaat1-GAL4.R}2	1;2	8849	---
Expresses GAL4 in many, but not all, glutamatergic neurons of the larva	P{w[+mC]=VGlut-GAL4.D}1, w[*]	1	24635	---
Expresses GAL4 in glutamatergic neurons from embryonic stage 15 to adult.	w[1118]; P{w[+mW.hs]=GawB}VGlut[OK371]	2	26160	---
Expresses GAL4 in GABAergic neurons, H.B. May have w[-] allele on X chromosome. Homozygotes present	P{w[+mC]=Gad1-GAL4.3.098}2/CyO	2	51630	---
Expresses GAL4 in motor neurons. Expresses GFP with a mitochondrial import signal under UAS control, H.B.	w[1118]; P{w[+mW.hs]=GawB}D42, P{w[+mC]=UAS-mito-HA-GFP.AP}3e[1]/TM6B, Tb[1]	1;3	42737	---
Expresses GAL4 in motor neurons, K.C.	w[*]; P{w[+mW.hs]=GawB}D42	1;3	8816	---
Expresses GAL4 in chordotonal organs vchA, vchB, Ich5 and Ich1, the class III sensory neurons vdaD, v'pda, ldaB, ddaA and ddaF and the dmd1 sensory neuron in the pattern of the nompC gene; may be segregating CyO, P{w[+mC]=Dfd-EYFP}2, S.S.	y[1] w[*]; PBac{y[+mDint2]} w[+mC]=nompC-GAL4.P}VK00014; Df(3L)Ly, sens[Ly-1]/TM6C, Sb[1]	1;2;3	36361	---
Expresses GAL4 in class IV larval sensory neurons in the pattern of the TrpA1 gene, S.S.	y[1] w[*]; PBac{y[+mDint2]} w[+mC]=TrpA1-GAL4.P}VK00014; Df(3L)Ly, sens[Ly-1]/TM6C, Sb[1]	1;2;3	36362	---
Expresses GAL4 strongly in class IV dendritic arborization neurons and weakly in class III neurons, P.A.	w[*]; P{w[+mC]=ppk-GAL4.G}2	1;2	32078	---
Drives GAL4 expression in multiple dendritic neurons, oenocytes and chordotonal organs	y[1] w[*]; P{w[+mW.hs]=GawB}109(2)80, P{w[+mC]=UAS-mCD8::GFP.L}LL5	2	8768	---

Expresses GAL4 in a subset of dendritic arborization neurons	y[1] w[*]; P{w[+mW.hs]=GawB}477, P{w[+mC]=UAS-mCD8::GFP.L}LL5	2	8746	---
Expresses GAL4 in olfactory sensory neurons of the antenna, L.V.	w[118]; P{w[+mC]=Snmp-VP22-GAL4.5.412}2	1;2	51305	---
Expresses GAL4 in the pattern of the odorant receptor 47b gene	w[*]; P{w[+mC]=Or47b-GAL4.7.467}15.5A	1;2	9983	---
Expresses GAL4 in the pattern of the odorant receptor 47b gene, segregating TM2 (or other Ubx-marked balancer)	w[*]; P{w[+mC]=Or47b-GAL4.7.467}15.6	1;3	9984	---
Expresses GAL4 in the pattern of the odorant receptor 67d gene	P{w[+mC]=Or67d-GAL4.F}57.1, y[1] w[*]	1	9997	---
Expresses GAL4 in the pattern of the odorant receptor 67d gene	w[*]; P{w[+mC]=Or67d-GAL4.F}57.2	1;2	9998	---
Targeted GAL4 knock-in allele; expresses GAL4 in the pattern of the Ir84a gene	w[*]; TI{GAL4}Ir84a[GAL4]	1;3 84D6	41750	---
Expresses GAL4 under control of Tk regulatory sequences. May not fully recapitulate the expression pattern of Tk.	w[1118]; P{w[+mC]=Tk-GAL4.TH}3Ma/TM6B, Tb[1]	1;3	51974	---
Expresses GAL4 under control of Tk regulatory sequences. May not fully recapitulate the expression pattern of Tk.	w[1118]; P{w[+mC]=Tk-GAL4.TH}5Fa	1	51975	---
Expresses GAL4 in the pattern of the fruitless gene, C.P.	w[1118]; P{w[+mW.hs]=GawB}fru[N P0021]	1;3	30027	---
Expresses GAL4 under the control of DNA sequences in or near dsx (FBgn0000504), G.R. See http://flystocks.bio.indiana.edu .	w[1118]; P{y[+t7.7]} w[+mC]=GMR39E06-GAL4}attP2	1;3	50051	---
Expresses GAL4 in dorsal circadian pacemaker neurons, P.H.	w[*]; sna[Sco]/CyO; P{w[+mC]=Clk4.1M-GAL4}3/TM6B, Tb[1]	1;2;3	36316	---

* An allele known to be mutant but whose specific identity is unknown is given an asterisk as an allele designation, e.g., w*.

CG15630-GAL4 lines

Laboratory of comparative genetics of behavior, Pavlov Institute of Physiology Russian Academy of Sciences, Russia
<http://behgen.org/>

Description	Паттерн экспрессии в нервной системе (GFP) детекция	Genotype	Break point	ID
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Control stock for 24144-2-M(1-4) и 24144-3-M(1-5) pBPGw without CG15630 regulatory elements		y1 w67c23; P{y[+t7.7]w[+mC]=}	3 68A4	24144-1-M3
Control stock for 24144-2-M(1-4) и 24144-3-M(1-5) pBPGw without CG15630 regulatory elements		y1 w67c23; P{y[+t7.7]w[+mC]=}	3 68A4	24144-1-M4
Control stock for 24144-2-M(1-4) и 24144-3-M(1-5) pBPGw without CG15630 regulatory elements		y1 w67c23; P{y[+t7.7]w[+mC]=}	3 68A4	24144-1-M5

All transformants were picked from INDIVIDUALLY injected G₀s (Injected Stock: BDSC#8622). PhiC31 integrase-mediated transgenesis, see www.thebestgene.com. The "-M1-M" indicated the male G₀ cross No. 1 (renumbered for simplicity) generated a male G¹ founder. Balancer used was TM3 (sb) (may be segregating TM3, Sb[1])

GAL4 lines

Bloomington Drosophila Stock Center, Indiana University, USA

Description	Genotype	Break point	ID
Expresses a progesterone-inducible GAL4 in all cells. This is P{Act5C(FRT.y[+])GAL4.Switch.PR}3 with the y[+] FRT cassette removed by FLP recombinase.	P{ry[+t7.2]=hsFLP}12, y[1] w[*]; P{w[+mC]=UAS-GFP.S65T}Myo31DF[T2]; P{w[+mC]=Act5C(-FRT)GAL4.Switch.PR}3/TM6B, Tb[1]	3	9431
Expresses steroid-activated GAL4 in neurons	y[1] w[*]; P{w[+mC]=elav-Switch.O}GSG301	3	43642
Expresses a progesterone-inducible GAL4 following removal of a y[+] FRT cassette by FLP recombinase	y[1] w[*]; P{w[+mC]=UAS-GFP.S65T}Myo31DF[T2]; P{w[+mC]=Act5C(FRT.y[+])GAL4.Switch.PR}3/TM6B, Tb[1]	3	9430
Expresses a progesterone-inducible GAL4 following removal of a y[+] cassette by FLP recombinase	P{w[+mC]=Act5C(FRT.y[+])GAL4.Switch.PR}X, y[1] w[*]	1	9381
Heat shock inducible GAL4	w[1]; Sb[1]/TM3, P{w[+mC]=GAL4-Hsp70.PB}TR2, P{w[+mC]=UAS-GFP.Y}TR2, y[+] Ser[1]		5704

Temperature-sensitive GAL80 lines

Bloomington Drosophila Stock Center, Indiana University, USA

<http://flystocks.bio.indiana.edu/>

Description	Genotype	Break point	ID
Temperature-sensitive GAL80 expressed under the control of the alphaTub84B promoter, restrictive temp is 30°C, R.D.; homozygotes present in stock, K.C.	w[*]; P{w[+mC]=tubP-GAL80[ts]}2/TM2	3	7017

Temperature-sensitive GAL80 expressed under the control of the alphaTub84B promoter, restrictive temp is 30oC, R.D. May be segregating TM2 and/or TM6B, K.C.	w[*]; sna[Sco]/CyO; P{w[+mC]=tubP-GAL80[ts]}7	3	7018
Temperature-sensitive GAL80 expressed under the control of the alphaTub84B promoter, restrictive temp is 30oC, R.D.	w[*]; P{w[+mC]=tubP-GAL80[ts]}20; TM2/TM6B, Tb[1]	2	7019
Temperature-sensitive GAL80 expressed under the control of the alphaTub84B promoter, R.D.; insertion appears to be homozygous female lethal, K.M.	P{w[+mC]=tubP-GAL80[ts]}Sxl[9], w[*]/FM7c	6F5	7016

FLP recombinase lines

Bloomington Drosophila Stock Center, Indiana University, USA

<http://flystocks.bio.indiana.edu/>

Description	Genotype	Break point	ID
Expresses FLP recombinase with G5D and F70L amino acid substitutions under LexAOp control	w[1118]; P{y[+t7.7] w[+mC]=8XLexAop2-FLPL}attP2	1;3 68A4	55819
Expresses FLP recombinase with G5D and F70L amino acid substitutions under LexAOp control	w[1118]; P{y[+t7.7] w[+mC]=8XLexAop2-FLPL}attP40	1;2 25C6	55820

UAS-GFP/LacZ/TeTxLC/NaChBac/TrpA1/shi lines

Bloomington Drosophila Stock Center, Indiana University, USA

<http://flystocks.bio.indiana.edu/>

Description	Genotype	Break point	ID
Expresses mCD8-tagged GFP under the control of 10 UAS sequences, B.P.	w[*]; P{w[+mC]=10XUAS-mCD8::GFP}attP2	68A4 (attP2)	32184
Expresses mCD8-tagged GFP under the control of 10 UAS sequences with an intron	w[*]; P{w[+mC]=10XUAS-IVS-mCD8::GFP}attP40	25C6 (attP40)	32186
Expresses GFP under the control of 10 UAS sequences with an intron (IVS) interposed between the UAS and coding sequences and a Woodchuck Posttranscriptional Regulatory Element 3' of the coding sequences, B.P.	w[*]; P{w[+mC]=10XUAS-IVS-GFP-WPRE}attP2	68A4 (attP2)	32202
RFP or RFP derivative	w[1118]; P{w[+mC]=UAS-RFP.W}2	1,2	30556
RFP or RFP derivative	w[1118]; P{w[+mC]=UAS-RFP.W}3/TM3, Sb[1]	1,3	31417

Expresses GFP-tagged, wild type n-syb protein in 3rd instar motor neurons, K.M. & D.V.V.	w[*]; P{w[+mW.hs]=GawB}D42, P{w[+mC]=UAS-nSyb-GFP.E}3/TM3, Sb[1]	1;3	9263
May be used to label synaptic vesicles, Scer\UAS regulatory sequences drive expression of syt1 (Synaptotagmin 1) fused to "eGFP"	P{UAS-syt.eGFP}1P{w[+mC]=UAS-syt.eGFP}1, w[*]	1	6924
May be used to label synaptic vesicles, Scer\UAS regulatory sequences drive expression of syt1 (Synaptotagmin 1) fused to "eGFP"	w[*]; P{w[+mC]=UAS-syt.eGFP}2	2	6925
May be used to label synaptic vesicles, Scer\UAS regulatory sequences drive expression of syt1 (Synaptotagmin 1) fused to "eGFP"	w[*]; P{w[+mC]=UAS-syt.eGFP}3	3	6926
Expresses lacZ under UAS control	P{w[+mC]=UAS-lacZ.Exel}2***	2	8529
Expresses nRFP under the control of UAS sequences in nuclei	w UAS-nRFP	X	---
Expresses light chain of tetanus toxin under UAS control; weakly expressing line	w[*]; P{w[+mC]=UAS-TeTxLC.tnt}E2	1;2	28837
Expresses the light chain of tetanus toxin under UAS control, C.O'K.	w[*]; P{w[+mC]=UAS-TeTxLC.tnt}G2	1;2	28838
Expresses a mutated tetanus toxin light chain gene under UAS control	w[*]; P{w[+mC]=UAS-TeTxLC.(-)Q}A2	1;2	28839
Expresses a mutated tetanus toxin light chain gene under UAS control	w[*]; P{w[+mC]=UAS-TeTxLC.(-)V}B3	1;3	28841
Expresses the light chain of tetanus toxin under UAS control upon FLP-mediated removal of a miniwhite cassette	w[*]; P{UAS(FRT.w[+mW.hs])TeTx LC}10/CyO	1;2	28842
Expresses a mutated tetanus toxin light chain gene under UAS control upon FLP-mediated removal of a miniwhite cassette	w[*]; P{UAS(FRT.w[+mW.hs])TeTx LC.IMPTNT}9A/TM3, Sb[1]	1;3	28844
Expresses a bacterial sodium channel under UAS control to increase membrane excitability. This insertion provides intermediate expression	y[1] w[*]; P{w[+mC]=UAS-NaChBac-EGFP}4	1;2 54B16 (Ti)	9466
Expresses an EGFP-tagged bacterial sodium channel under UAS control to increase membrane excitability. This line provides strong expression; multiple insertions may be present. Homozygotes may be present.	y[1] w[*]; P{w[+mC]=UAS-NaChBac-EGFP}1/TM3, Sb[1]	1;3	9467
Expresses a bacterial sodium channel under UAS control to increase membrane excitability. This insertion provides intermediate expression.	y[1] w[*]; P{w[+mC]=UAS-NaChBac}2	1;3 83C (Ti)	9469
Expresses TrpA1 under UAS control. May be used to activate neurons experimentally at 25 degrees C. May be segregating CyO, P.G. y[1] may be present.	w[*]; P{y[+t7.7] w[+mC]=UAS-TrpA1(B).K}attP16	1;2 53C4	26263
Expresses TrpA1 under UAS control. May be used to activate neurons experimentally at 25 degrees C. y[1] may be present.	w[*]; P{y[+t7.7] w[+mC]=UAS-TrpA1(B).K}attP2/TM6B, Tb[1]	1;3 68A4	26264

Expresses temperature-sensitive shi protein under UAS control for inhibiting synaptic transmission	w[*]; P{w[+mC]=UAS-shi[ts1].K}3	1;3	44222
The two P{UAS-shi.K44A} insertions together express the dominant negative version of shi at moderate levels, but separately at low levels	y[1] w[*] P{w[+mC]=UAS-shi.K44A}4-1; P{w[+mC]=UAS-shi.K44A}3-7	1;2	5811

*** genotype is supposedly y[1] w[1118]; P{w[+mC]=UAS-lacZ.Exel}2

Transgenic RNAi Project – TRiP, Drosophila RNAi Screening Center, Harvard Medical School, USA

<http://www.flyrnai.org>

Description	Vector	Genotype	Breakpoint	ID
Expresses GFP under the control of UAS in the VALIUM10 vector. Can be used as a control for VALIUM10 or VALIUM20, TRiP	VALIUM10	y[1] v[1]; P{UAS-GFP.VALIUM10}attP2	68A4 (attP2)	35786

UAS-RNAi lines

Transgenic RNAi Project – TRiP, Drosophila RNAi Screening Center, Harvard Medical School, USA

<http://www.flyrnai.org>

In the final homozygous TRiP lines y+ indicates that the attP site is present, v+ indicates that the hairpin is present, and sc- indicates the presence of the y sc v X chromosome. All of which confirm the correct genotype.

Description	Vector	Genotype	Break point	ID	Wb
Control line for TRiP RNAi lines	---	y[1] v[1]; P{y[+t7.7]=CaryP}attP40	25C6, (attP40)	36304	---
Control line for TRiP RNAi lines	---	y[1] v[1]; P{y[+t7.7]=CaryP}attP2	68A4, (attP2)	36303	Wb-
Background/mapping stock for many VALIUM lines inserted in the attP2 site on Chr 3	---	y[1] sc* v[1]; Dr1 e1/TM3, Sb1	3	32261	---
Expresses dsRNA for RNAi of EGFP and various derivatives (EYFP, YFP-2, ECFP) under UAS control. It will not be effective against plain GFP, TRiP.	VALIUM20	y[1] sc* v[1]; P{VALIUM20-EGFP}attP2	68A4, (attP2)	35782	---
Expresses dsRNA for RNAi of Mef2	VALIUM10	y1 v1; P{TRiP.JF03115}attP2	68A4, (attP2)	28699	Wb-
Expresses dsRNA for RNAi of jumu	VALIUM22	y1 sc* v1; P{TRiP.GL00363}attP2	68A4, (attP2)	35438	---
Expresses dsRNA for RNAi of lola	VALIUM10	y1 v1; P{TRiP.JF02254}attP2	68A4, (attP2)	26714	---
Expresses dsRNA for RNAi of jing	VALIUM10	y1 v1; P{TRiP.JF02345}attP2	68A4, (attP2)	27024	---

Expresses dsRNA for RNAi of Map205	VALIUM20	y1 sc* v1; P{TRiP.HMS00733}attP2	68A4, (attP2)	32939	Wb+
Expresses dsRNA for RNAi of CG5807	VALIUM20	y1 sc* v1; P{TRiP.HMS00100}attP2/TM3, Sb1	68A4, (attP2)	34791	Wb+
Expresses dsRNA for RNAi of drl	VALIUM10	y1 v1; P{TRiP.JF03281}attP2	68A4, (attP2)	29602	---
Expresses dsRNA for RNAi of wdp	VALIUM10	y1 v1; P{TRiP.HM05118}attP2	68A4, (attP2)	28907	Wb-
Expresses dsRNA for RNAi of olf413	VALIUM10	y1 v1; P{TRiP.JF02439}attP2	68A4, (attP2)	29547	---
Expresses dsRNA for RNAi of yps	VALIUM10	y1 sc* v1; P{TRiP.HM05225}attP2	68A4, (attP2)	30810	---
Expresses dsRNA for RNAi of msn	VALIUM10	y1 v1; P{TRiP.JF03219}attP2	68A4, (attP2)	28791	---
Expresses dsRNA for RNAi of tll (FBgn0003720) under UAS control	---	y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.JF02545}attP2	1;3 68A4	27242	---

The Vienna Drosophila RNAi Center, Campus Science Support Facilities, Austria

<http://stockcenter.vdrc.at/control/main>

GD - RNAi library with random P-insertion

KK - phiC31-based RNAi library (site specific insertion)

Description	RNAi library	Viability	Genotype	Break point	ID	CG number	Wb
Control/isogenics host strain for GD	---	---	w[1118]	---	60 000	---	Wb+
Control/ isogenics host strain for KK	---	---	y,w[1118];P{attP,y[+],w[3']}	2	60100	---	Wb-
RNAi-T. Virginizer isogenic host strain, hs-hid is marked with mini-white	---	---	w[1118] / Y, hs-hid	1	60001	---	---
RNAi-TK. X and 3rd chromosomes isogenic with host strain, hs-hid is marked with mini-white	---	---	w[1118] / Y, hs-hid; Sp / Cyo	1;3	60002	---	---
RNAi-TK. X and 2nd chromosomes isogenic with host strain, hs-hid is marked with mini-white	---	---	w[1118] / Y, hs-hid; MKRS / TM2, y[+]	1;2	60003	---	---

RNAi-TK. Control line for KK library landing site. Landing sites at 40D and 30B in KK library host strain have been separated by meiotic recombination. Line contains Gal4-responsive UAS repeats but no functional RNAi coding sequence at 40D and no transgene insertion at 30B. Enables researchers to test whether their genetic screen of interest will be affected by ectopic tiptop expression (see Vissers et al Nat. Comm. 2015. A Drosophila RNAi library modulates Hippo pathway-dependent tissue growth. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4500000/). https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4500000/	---	---	40D-UAS	2	60101	---	---
Expresses dsRNA for RNAi of cf2	GD	viable	w[1118]; P{UAS-dsRNA,w[+]}	2	48895	CG11924	---
Expresses dsRNA for RNAi of cf2	KK	sterile	y,w[1118];P{attP,y[+],w[3']}	2	103664	CG11924	---
Expresses dsRNA for RNAi of mesr4	GD	viable	w[1118]; P{UAS-dsRNA,w[+]}	2	21974	CG4903	---
Expresses dsRNA for RNAi of Dgp-1	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	109410	CG5729	---
Expresses dsRNA for RNAi of CG15630	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	107797	CG15630	Wb-
Expresses dsRNA for RNAi of CG15630	GD	viable	w[1118]; P{UAS-dsRNA,w[+]}	2	37843	CG15630	---
Expresses dsRNA for RNAi of CG34460	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	110120	CG34460	---
Expresses dsRNA for RNAi of CG8708	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	102288	CG8708	---
Expresses dsRNA for RNAi of ext2	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	109949	CG8433	---
Expresses dsRNA for RNAi of dyps2	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	105268	CG5025	Wb-
Expresses dsRNA for RNAi of CG6746	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	103625	CG6746	---
Expresses dsRNA for RNAi of Treh	GD	viable	w[1118]; P{UAS-dsRNA,w[+]}	2	30731	CG9364	---
Expresses dsRNA for RNAi of CG2519	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	106705	CG2519	---
Expresses dsRNA for RNAi of kermit	KK	viable	y,w[1118];P{attP,y[+],w[3']}	2	109297	CG11546	---
Expresses dsRNA for RNAi of jumu	GD	viable	w[1118]; P{UAS-dsRNA,w[+]}	3	12610	CG4029	---

NIG-FLY , Fly Stocks of National Institute of Genetics, Japan

<https://shigen.nig.ac.jp/fly/nigfly/>

Description	RNAi library	Genotype	Break point	ID	CG number	Wb
Expresses dsRNA for RNAi of CG15630	RNAi-mutant fly bank	w[1118]; P{UAS-dsRNA,w[+]}	2	31970R-1	CG15630	---
Expresses dsRNA for RNAi of CG15630	RNAi-mutant fly bank	w[1118]; P{UAS-dsRNA,w[+]}	3	31970R-2	CG15630	---

Dicer lines

The Vienna Drosophila RNAi Center, Campus Science Support Facilities, Austria

<http://stockcenter.vdrc.at/control/main>

Description	RNAi library	Viability	Genotype	Break point	ID
UAS-dicer2 insertion on X	---	---	w[1118]P{UAS-dicer2, w[+]}	1	60007
UAS-dicer2 insertion on X	---	---	P{UAS-dicer2, w[+]}	1	60012

NP GAL4 drivers

Kyoto DGGR (Kyoto Stock Center), Japan

<https://kyotofly.kit.jp/cgi-bin/stocks/index.cgi>

Related Genes	Genotype	Break points	ID
CG17047 CG17048	w[*]; P{w[+mW.hs]=GawB}NP2361 / CyO	50A3	104171
Optix FB{773}	w[*]; P{w[+mW.hs]=GawB}NP2631 / CyO	44A3	104266
Tm1	w[*]; P{w[+mW.hs]=GawB}Tm1[NP3018] / TM6, Sb[1] Tb[1]	88E12	104341
Cha CG7714	w[*]; P{w[+mW.hs]=GawB}Cha[NP4784] / TM3, Sb[1] Ser[1]	91C1	104779
Cha VAChTCG7714	w[*]; P{w[+mW.hs]=GawB}Cha[NP4784] / TM3, Sb[1] Ser[1]	91C3- 91C4	113523
Slh oaf	y[*] w[*]; P{w[+mW.hs]=GawB}NP5266 / CyO, P{w[-]=UAS-lacZ.UW14}UW14	22F3	104928
Aats-phe CG13349 Cp1	w[*]; P{w[+mW.hs]=GawB}Cp1[NP7036] / CyO, P{w[-]=UAS-lacZ.UW14}UW14	50C19	114049

Stocks for doxycycline-dependent expression

University of Southern California, USA

Bieschke ET, Wheeler JC, Tower J. Doxycycline-induced transgene expression during Drosophila development and aging. Mol Gen Genet. 1998 Jun;258(6):571-9.

PUBMED <http://www.ncbi.nlm.nih.gov/pubmed?term=E.%20T.%20Bieschke%20%C3%A1%20J.%20C.%20Wheeler%20%C3%A1%20J.%20Tower%20Doxycycline-induced%20transgene>

Landis G, Bhole D, Lu L, Tower J. High-frequency generation of conditional mutations affecting *Drosophila melanogaster* development and life span. Genetics. 2001 Jul;158(3):1167-76.

PUBMED <http://www.ncbi.nlm.nih.gov/pubmed/11454765>

Breakpoints coordinates are indicated according to FlyBase released September 3rd, 2010 (FB2010_07)

Description	Genotype	Break point	ID	Wb
Expresses lacZ under tetO control	w[+] 7T40(X)N1/Y*	1	me2	Wb-
Expresses rtTA under the control of constitutive Actin5C promoter	W[1118]; rtTA(3)E2G/TM3 Sb**	3	me4	---
Expresses rtTA under the control of constitutive Actin5C promoter	w[1118];rtTA(2)C1**	2	me5	---
Expresses rtTA under the control of constitutive Actin5C promoter	w[1118];rtTA(2)E1**	2	---	---
Line containing P-element construct Ponce de Leon (<i>PdL</i>) to create conditional (DOX- dependent) mutations	w[-] P{w[+]} recipient strain y ac w1118	X:2195148	me6	---
Tet-on dsRed	---	2	---	---

*7T40 - reporter construct consisting of seven tetO sequences, the hsp70 core promoter, 5' untranslated region and translational initiation sequence, the E. coli lacZ coding region and the hsp70 poly(A) signal sequence.

** rtTA - the constitutive Actin5C promoter and 5' untranslated region are fused to the coding sequences for the rtTA (reverse tetracycline transactivator), which is a fusion of the rtR (reverse tetracycline repressor) and the transcriptional activation domain of herpes virus protein VP16. The poly(A) signal sequences are from SV40.

***PdL* insertion lines with locomotor and courtship song deviations**

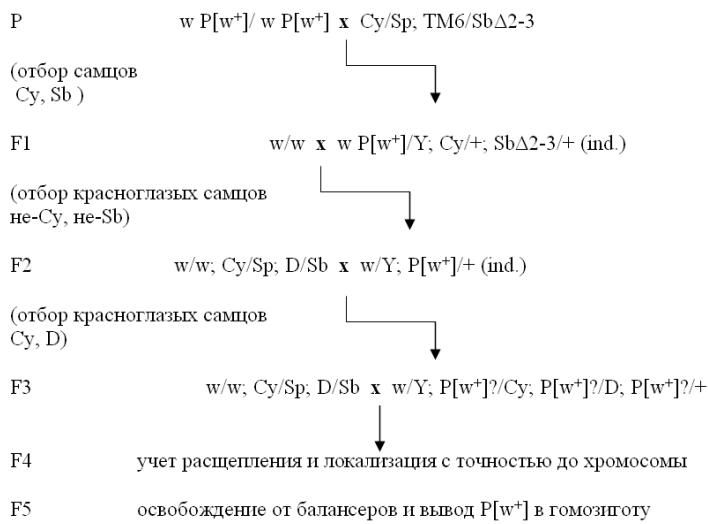
Laboratory of comparative genetics of behavior, Pavlov Institute of Physiology Russian Academy of Sciences, Russia

<http://behgen.org/>

Landis G, Bhole D, Lu L, Tower J. High-frequency generation of conditional mutations affecting *Drosophila melanogaster* development and life span. Genetics. 2001 Jul;158(3):1167-76.

PUBMED <http://www.ncbi.nlm.nih.gov/pubmed/11454765>

Scheme for random *PdL* insertions



Breakpoints coordinates are indicated according to FlyBase released September 3rd, 2015 (FB2015_04)

Genotype $w[-] P[w+]$ unless otherwise states

Description	Breakpoints and directions	ID	Wb
Insertion in Cf2 (rev)	2L:4882790-for	3724	---
Insertion in Mef2 (rev)	2R:9955338-rev	663	Wb+
Insertion in jumu (for)	3R:10356500-for	5493	---
Insertion in lola (rev)	2R:10541703-for	5282b	---
Insertion in MESR4 (for)	2R:17548417-for	2169	---
Insertion between CR46075 (rev) and jing (for)	2R:6501888-rev	4129	---
Insertion before jing (for)/after CR46075 (rev)	2R:6501888-rev	3494	---
Insertion in Dgp-1 (rev)	2R:18171544-for	843K	---
Insertion in Map205 (rev)	3R:32068414-rev	5567a	Wb+
Insertion in CG5807 (rev)	3R:24813996-rev	3328b	---
Insertion in CG15630 (rev)	2L: 4793956-for	3404a	Wb+
Insertion before drl (for)	2L:19190341-rev	2248	---
Insertion before wdp (rev)	2R:22312048-rev	3979a-s2	---
Insertion in transposable element cluster	2L:20116133-for	6225a	---
Insertion before CR43650 (for)/after CG34460 (for)	2R:16828873-rev	3290	---
Insertion in Hsrw (for)	3R:21296529-for	5433-t3	---
Insertion in CG8708 (rev)	2R:8159627-for	4653	---
Insertion in CG10731 (rev)	2R:16148966-for	6387a-s2	---
Insertion in Sps2 (for)	2L:10342643-for	5769	Wb+
Insertion in 3S18 element	---	5511-t3	---
Insertion in CG6746 (rev)	2L:12002261-rev	3389	---

Insertion in CG6746 (rev) on background of Cantonized w[1118]	2L:12002261-rev	3389cs	---
Insertion in Treh (for)	2R:21076160-for	6139b	---
Insertion in Treh (for)	2R:21076816-for	4262c-s2	---
Insertion in CG8036 (for)/p (rev)	3R:8669581-for	901a-t3	Wb-
Insertion in CG43783 (rev)/orb2 (rev)	3L:8953258-rev	6185	---
Insertion in yps (rev)	3L:12125118-rev	7081	---
Insertion in CG2218 (rev)	3R:30428089-rev	5593	---
Insertion in cpx (for)	3R:4281674-rev	210-t3	---
Insertion in opus (transposable element)	---	3544a-s2	---
Insertion in CG1943 (for)/CR45908 (rev)	3R:7075465-for	5180-t3	Wb-
Insertion in Dm88 (transposable element)	---	576	---
Insertion before CG2064 (for)	2R:7665756-for	3091-s2	---
Insertion before CG34353 (rev)	3R:27905987-rev	5431a	---
Insertion before CG34353 (rev)	3R:27906071-for	2768c	---
Insertion between SKIP (for)/CG42390(for)	3R:22133491-rev	5198a	---
Insertion in Sema-1a (for)	2L:8543318-for	185	---
Insertion in CG4911 (rev)	3L:9072698-rev	2170c	---
Insertion before Mrp4 (for)	3R:11569236-for	2190	---
Insertion before CG14749 (for)	2R:8627826-for	6768	---
Insertion in PP2A-B' (for)*	3R:18168681-for	5480a	---
Insertion in Tasp1 (rev)	3L:16087506-rev	4522	---
Insertion in Nckx30C (rev)	2L:9731547-rev	283	---
Insertion in ps (for)	3R:9419415-for	7103c	---
Insertion between Hsp26 (rev)/Hsp67Ba (rev)	3L:9377665-for	4994	---
Insertion in Raf (for)	X:2301115-for	771a	---
Insertion before caps (for)	3L:13228647-for	1938b	---
Insertion in Pif1A (rev)/Pif1B (rev)	3R:8800131-rev	5429b	---
Insertion between Uhg2 (rev)/Bka (for)	2L:9895020-for	4277-s2	---
Insertion in RpL41 (rev)/NaCP60E (for)	2R:24903903-for	3041-t3	---
Insertion between Syx8 (rev)/CR45895 (rev)/CG32163 (for)	3L:16587078-for	55	---
Insertion in ktub (for)	2R:21102216-rev	42	---
Insertion in Taf4-RF (for)	3L:16113252-for	6039	---
Insertion before sca (for)	2R:12780442-rev	3873-t3	---
Insertion in form3 (for)	3L:7094825-rev	6671	---
Insertion in l(2)37Cd (for)	2L:19127273-for	1292b	---
Insertion before Smn (rev)	3L:16581300-for	860	---

Insertion in DIP-ε (rev)	2L:6411322-for	4290	---
Insertion in CG17508 (for)	2R:5608652-for	1014-s2	---
Insertion in mdg3 (transposable element)	---	6787	---
Insertion in par-1 (for)/mei-W68 (for)	2R:19456172-rev	2281-s2	---
Insertion in Debcl (for)	2R:6648839-rev	6101	---
Insertion in Dph5 (rev)	3R:22583195-rev	760b-t3	---
Insertion in mura (rev)/CR42549 (rev)	3R:9551450-rev	6856-t3	---
Insertion in Bacc (for)/ before Pgk (rev)	2L:2753132-rev	2776	---
Insertion in Sodh-2 (for)	3R:10876387-rev	181a	---
Insertion before dap (for)	2R:9712303-for	2742-s2	---
Insertion in RapGAP1 (rev)	2L:7576630-for	7111b	---
Insertion in RapGAP1 (rev)	2L:7576630-for	6856-s2	---
Insertion in cnc (rev)	3R:23221975-rev	3655	---
Insertion in GstS1 (rev)	2R:17097504-rev	797a	---
Insertion in Hph (for)/before CR45793 (rev)	3R:5264851-for	2198	---
Insertion in snRNA:U1:82Eb (rev)	3R:4947941-for	3620	---
Insertion in CG7920 (rev)	3R:30015239-rev	3892	---
Insertion before CG7900 (for)	3R:8094083-for	4112	---
Insertion in psq (for)	2R:10583735-for	4201a-s2	---
Insertion in scaffold	---	5197d-t3	---
Insertion in Png1 (for)	2R:6017765-rev	5529	---
Insertion in CG7879 (rev)	3L:1568603-for	5599	---
Insertion in scaffold	---	5959	---
Insertion in Pdk (for)	2R:9426531-for	6471b	---
Insertion before shd (for)	3L:14614421-for	14	---
Insertion in scaffold	---	1926	---
Insertion in Hel89B (for)	3R:15973359-for	2561	---
Insertion in ptc (for)	2R:8655629-for	3310	---
Insertion in Dp (for)	2R:13223793-for	1226-s2	---
Insertion in Crol (rev)	2L:11808227-rev	1645-s2	---
Insertion in CG7220 (for)	2R:10737280-for	1678-s2	---
Insertion before shep (rev)	3L:5278311-for	2282c	---
Insertion in Sam-s (for)	2L:107931-rev	272b	---
Insertion in Sin3A (rev)/CR30055	2R:12589609-rev	2797-s2	---
Insertion in Dek (for)	2R:16856423-for	309-s2	---
Insertion in CG11791 (for)	3R:25050241-for	3356a	---
Insertion before CG44006 (rev)/after CG44005 (rev)	3L:18070188-for	4041a	---

Insertion before Toll-6 (for)	3L:15336546-for	4089b	---
Insertion in CG2852 (rev)	2R:22646342-rev	4246a	---
Insertion before CR43650 (for)	2R:16828873-rev	5481c	---
Insertion in Rab32 (rev)	2R:9186335-for	642a	---
Insertion in scaffold	---	2987	---
Insertion before CG13894 (rev)	3L:699829-for	5944c	---

for – 3'end of *PdL* or gene looks to the end of chromosome according to Flybase coordinates

rev – 3'end of *PdL* or gene looks to the start of chromosome according to Flybase coordinates

* - Flybase find part of sequence. Coordinates are defined by hand search.

PdL* insertion lines with great interpulse interval deviation (standard error of mean>4ms)

Breakpoints coordinates are indicated according to FlyBase released September 3rd, 2015 (FB2015_04)

Insertion in CR43651 (for)	w[-] P{w[+]}	2R: 9553464-for	6452b	---
Insertion in CG2852 (rev)	w[-] P{w[+]}	2R: 22646342-rev	4262a**	---
Insertion before CG14073 (rev)	w[-] P{w[+]}	3L: 18820689-rev	4262a**	---

* In Canton-S standard error of mean=0.54ms

** Double insertion per line

***PdL* insertion lines with abnormal heat shock resistance**

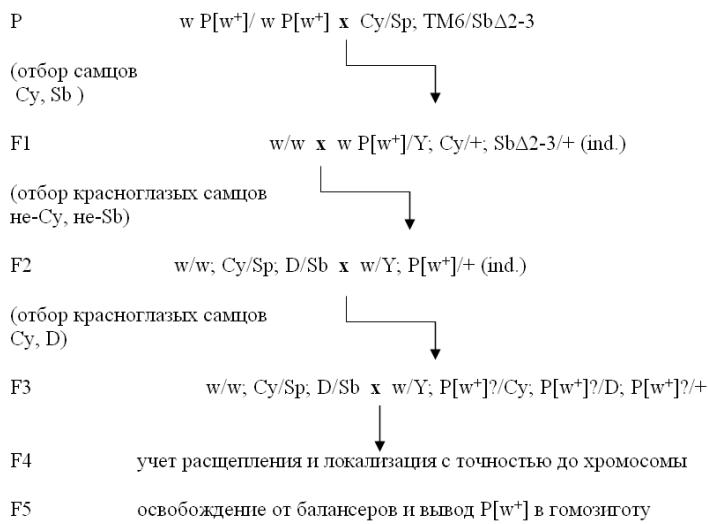
Laboratory of comparative genetics of behavior, Pavlov Institute of Physiology Russian Academy of Sciences, Russia

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PUBMED <http://www.ncbi.nlm.nih.gov/pubmed/11454765>

Creating a collection of random *PdL* insertions



Breakpoints coordinates are indicated according to FlyBase released September 3rd, 2015 (FB2015_04)

Description	Genotype	Breakpoints and directions	ID	Wb
Insertion in mrt (rev)	w[-] P{w[+]}	3R:27281878-rev	5002	---
Insertion in opa (for)	w[-] P{w[+]}	3R:4858527-for	4158c-t3	---
Insertion before CG7530 (rev)	w[-] P{w[+]}	3R:14731652-rev	4187	---
Insertion in CG30394 (rev)	w[-] P{w[+]}	2R:21323285-for	6121a-s2	---
Insertion in 1731 (transposable element)	w[-] P{w[+]}	---	3073	---
Insertion in CG3831 (rev)	w[-] P{w[+]}	2R: 22940938-rev	4263b	---
Insertion in grp (for)	w[-] P{w[+]}	2L:16685360-for	2471a	---
Insertion before/in coro* (rev)	w[-] P{w[+]}	2R: 6872725-rev	5199	Wb+
Insertion in opus (transposable element)	w[-] P{w[+]}	---	753c	---
Insertion in CG4896 (for)	w[-] P{w[+]}	2L:1177713-rev	2432	---
Insertion in 1360 (transposable element)	w[-] P{w[+]}	---	3100	---
Insertion before cue (rev)/in Psa (for)	w[-] P{w[+]}	3L:1517276-for	6282	---
Insertion in Ef1 α 100E (for)	w[-] P{w[+]}	3R:31739612-rev	3961a	---
Insertion in intergenic region	w[-] P{w[+]}	2L:15492123-for	3483	---
Insertion before CG4630 (rev)	w[-] P{w[+]}	2R:13219340-rev	600a-t3	---

for – 3'end of PdL or gene looks to the end of chromosome according to Flybase coordinates

rev – 3'end of PdL or gene looks to the start of chromosome according to Flybase coordinates.

* flybase and ncbi database give different coro gene location

Lines with CG15630 affected

Breakpoints coordinates are indicated according to FlyBase released September 3rd, 2015 (FB2015_04)

Description	Genotype	genome region	ID	Source
Perfect <i>PdL</i> excision in mutant 3404a	w[-]	-	Se361	internal
Perfect <i>PdL</i> excision in mutant 3404a	w[+]	-	Se361R	internal
Perfect <i>PdL</i> excision in mutant 3404a	w[-]	-	Se363	internal
Perfect <i>PdL</i> excision in mutant 3404a	w[+]	-	Se363R	internal
Perfect <i>PdL</i> excision in mutant 3404a	w[-]	-	Se373	internal
Imperfect <i>PdL</i> excision in mutant 3404a	w[-]	2L: 4793237.. 4793955	Se362	internal
Imperfect <i>PdL</i> excision in mutant 3404a	w[+]	2L: 4793237.. 4793955	Se362R	internal
Imperfect <i>PdL</i> excision in mutant 3404a	w[-]	2L: 4792816.. 4793955	Se624	internal
Insertion in CG15630	y1 w*; Mi{MIC}CG15630MI11721	2L	56367	BL
Insertion in CG15630	w1118; Mi{ET1}CG15630MB07747	2L	25568	BL
Deletion in CG15630 - FBst0009702	w1118; Df(2L)BSC225/CyO	2L 25A3--25A7	9702	BL
Deletion in CG15630 - FBst0008482	Df(2L)sc19-10/ln(2L)CyLtR ln(2R)Cy, Cy1 amosRoi-1 cn2 sp2	2L 25A4-25C1	8482	BL
Insertion in CG15630 (rev)	W[-]; P{PdL}CG15630[3404z]	2L: 4793956-for	3404a	internal
Insertion in CG15630 (rev) on background of Cantonized w[1118]	W[1118]; P{PdL}CG15630[3404z]	2L: 4793956-for	3404aCs	internal

BL: Bloomington Drosophila Stock Center, Indiana University, USA

Lines with *Dgp-1* affected

Breakpoints coordinates are indicated according to FlyBase released September 3rd, 2015 (FB2015_04)

Description	Genotype	genome region	ID	Source
Insertion in <i>Dgp-1</i> (rev)	w[-]; P{PdL}Dgp-1843K	2R:18171544-for	843K	internal
Insertion in <i>Dgp-1</i> (rev) on background of Cantonized w[1118]	w[1118]; P{PdL}Dgp-1843K	2R:18171544-for	843Kcs-teta	internal
The Mi{ET1} construct carries the Avic\GFP[E.3xP3] fluorescent marker, a Scer\GAL4 driver/reporter gene, and bacterial sequences that allow plasmid rescue	w[1118]; Mi{ET1}Dgp-1[MB09208]	2R	26450	BL

The P{EPgy2} construct carries two visible markers, the mini-white marker w[+mC] and the mini-yellow marker y[+mDint2], and Scer\UASbinding sites for the Scer\GAL4 transcriptional regulator	y1 w67c23; P{EPgy2}Dgp-1EY11102	2R	20255	BL
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BL: Bloomington Drosophila Stock Center, Indiana University, USA

Drosophila mutants with memory defects

Description	Genotype	Break point	ID	Source
P{lacW} insertion within nemy	w1118; nemy ^{p153}	2 (49B-49C)	nemy ^{p153} /2-35	Iliadi KG
Imprecise excision P{lacW}nemyP153	w1118; ex45 ²⁹	2	Ex 45 ²⁹ /2-37b	Iliadi KG
Imprecise excision P{lacW}nemyP153	w+; ex45 ²⁹	2	Ex 45 ²⁹ /2-37a	Iliadi KG
Imprecise excision of GE16037: EP lines from GenExel Inc (collection P-insertion lines)	w1118; ex26.2/ex26.2	2	nemy 26.2/2-42b	Iliadi KG
Imprecise excision of GE16037: EP lines from GenExel Inc (collection P-insertion lines)	w+; ex26.2/ex26.2	2	nemy 26.2/2-42a	Iliadi KG
P{lacW} insertion before CG10151	w*; P171 ^{P171}	2 (48A-48B)	P171/3-16	Iliadi KG
P{lacW} insertion before CG10151	w1118; P171 ^{P171}	2 (48A-48B)	P171/3-16	Iliadi KG
Imprecise excision of P171 with deletion 727 bps of the CG10151 (before ATG)	w*; Ex P171	2	6F7/3-18	Knight D., Harvey P.J.
Imprecise excision of P171 with deletion 727 bps of the CG10151 (before ATG)	w1118; Ex P171	2	6F7/3-18	Knight D., Harvey P.J.
P{lacW} insertion P124	w*; P124	2	P-124/3-36	Iliadi KG
Imprecise excision of P124 with deletion in ENT2 (before transcribed region)	w*; Ex P124	2	1J7/3-25	Knight D., Harvey P.J.
Imprecise excision of P124 with deletion in ENT2 (before transcribed region)	w1118; Ex P124	2	1J7/3-25	Knight D., Harvey P.J.
Imprecise excision of P{?GawB}amn ^{X8} with deletion 800bps of the amn open reading frame	w* Ex-X8	X (18F4-19A2)	amn ^{X8} /3-33	Scott Waddell
Second and third chromosome balancer (background of Canton-S)	w1118(CS); Sp(CS)/CyO; Sb(CS)/TM3-Ser	---	BAL/4-3	Iliadi KG

Second and third chromosome balancer. Expresses GFP after heat shock	w; Sp/CyO-GFP; Sb/TM3 Ser-GFP	---	BAL GFP/4-8	Iliadi KG
Stock with constitutive expression of transposase	y, w; Sp/CyO; Δ2-3, Sb(y+)/TM6, Ubx	---	GB 610/4-29	Iliadi KG
P{EPgy2} insertion within CG10151 May be segregating CyO	y[1] w[67c23]; P{w[+mC]} y[+mDint2]=EPgy2} CG10151[EY03966]	2R 51C2	15695/3-31	BL
rut1 - loss of function allele (mutagen - ethyl methanesulfonate)	Single point mutation substituting adenine for guanine at position 3459, corresponding to arginine substituted for glycine at amino acid 1026	X (12F4-12F5)	9404 rut1/3-34	BL
P{IArB} insertion within rut	w+ rut2080	X (12F4-12F5)	rut2080/3-38	G. Roman
dnc1 - hypomorphic allele (mutagen - ethyl methanesulfonate)	dnc1/FM7a	X (3C9-3D1)/ 3-35	dnc1/FM7a/3-37	Ronald L. Davis
dnc1 - hypomorphic allele (mutagen - ethyl methanesulfonate)	---	X (3C9-3D1)/ 3-35	6020	BL
Orco1 - loss of function allele (mutagen - recombination, FLPase, SCEI endonuclease) Also known as or83b1 The w+ has been inserted in place of a region of the Or83b gene	w[*]; w[+] Orco[1]	3 (83A2-83A2)	23129/4-39	BL
Orco2 - loss of function allele (mutagen - recombination, FLPase, SCEI endonuclease) Also known as or83b2 The w+ has been inserted in place of a region of the Or83b gene	w[*]; w[+] Orco[2]	3 (83A2-83A2)	23130/ 4-34	BL
This allele has been known as l(2)jf24[b19], l(2)25Dc[3] and nompC[3]. It was made by J. Szidonya and is a different allele from the nompC[3] allele made in the C. Zuker lab.	nompC[b19]/SM6b	2	4581/4-38	BL
This allele has been known as l(2)jf24[h25], l(2)25Dc[4] and nompC[4]. It was made by J. Szidonya and is a different allele from the nompC[4] allele made in the C. Zuker lab.	nompC[4]/SM6b	2	4582/4-35	BL
P{GT1} insertion within desat1	w[1118]; P{w[+mGT]}=GT1}d esat1[BG00955]	3R 87B10	12520/4-36	BL

P{lacW} insertion within Gr39a and Mio	y[1] w[67c23]; P{w[+mC]=lacW}l(2))k05106[k05106]/C yO	2L 39C1	10562/4-37	BL
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- Iliadi KG: The Hospital for Sick Children, Canada.

<http://www.sickkids.ca/aboutsickkids/newsroom/past-news/2008/boulianee.html>

Iliadi KG, Avivi A, Iliadi NN, Knight D, Korol AB, Nevo E, Taylor P, Moran MF, Kamyshev NG, Boulianee GL. nemy encodes a cytochrome b561 that is required for Drosophila learning and memory. Proc Natl Acad Sci U S A. 2008 Dec 16;105(50):19986-91. Epub 2008 Dec 8.

[\[PUBMED\]](http://www.ncbi.nlm.nih.gov/pubmed/19064935) <http://www.ncbi.nlm.nih.gov/pubmed/19064935>

- Knight D., Harvey P.J.: The Hospital for Sick Children, Canada.

<http://www.sickkids.ca/aboutsickkids/newsroom/past-news/2008/boulianee.html>

Knight D, Harvey PJ, Iliadi KG, Klose MK, Iliadi N, Dolezelova E, Charlton MP, Zurovec M, Boulianee GL. Equilibrative nucleoside transporter 2 regulates associative learning and synaptic function in Drosophila. J Neurosci. 2010 Apr 7;30(14):5047-57. doi: 10.1523/JNEUROSCI.6241-09.2010.

[\[PUBMED\]](http://www.ncbi.nlm.nih.gov/pubmed/20371825) <http://www.ncbi.nlm.nih.gov/pubmed/20371825>

- Scott Waddell: Center for Learning and Memory Department of Brain and Cognitive Sciences
Department of Biology Massachusetts Institute of Technology, Cambridge, USA

<http://clm.utexas.edu/index.html>

Waddell S, Armstrong JD, Kitamoto T, Kaiser K, Quinn WG.

The amnesiac gene product is expressed in two neurons in the Drosophila brain that are critical for memory. Cell. 2000 Nov 22;103(5):805-13.

[\[PUBMED\]](http://www.ncbi.nlm.nih.gov/pubmed/11114336) <http://www.ncbi.nlm.nih.gov/pubmed/11114336>

- Ronald L. Davis: Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, Texas, USA.

http://www.bcm.edu/db/db_fac-davis.html

Dauwalder B, Davis RL. Conditional rescue of the dunce learning/memory and female fertility defects with Drosophila or rat transgenes. J Neurosci. 1995 May;15(Pt 1):3490-9.

[\[PUBMED\]](http://www.ncbi.nlm.nih.gov/pubmed/7751924) <http://www.ncbi.nlm.nih.gov/pubmed/7751924>

- BL: Bloomington Drosophila Stock Center, Indiana University, USA

<http://flystocks.bio.indiana.edu/>

- G. Roman: : Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, Texas, USA.

<http://www.bcm.edu/db/>

Mao Z, Roman G, Zong L, Davis RL.

Pharmacogenetic rescue in time and space of the rutabaga memory impairment by using Gene-Switch. Proc

PUBMED <http://www.ncbi.nlm.nih.gov/pubmed/14684832>

Drosophila mutants with courtship song defects

Description	Genotype	Break point	ID	Source
courtship song defects	st[1] Ki[1] cu[1] e[1] dco[3]/TM6B, Tb[+]	2	2455	BL
courtship song defects	y[1] w[*]; Clk[ar]	1;3	24513	BL
courtship song defects	Clk[Jrk] st[1]	3	24515	BL
courtship song defects	w[1118] PBac{w[+mC]=WH}nonA[f008 70]	X 14C1	18380	BL
courtship song defects	cac[H18]	1	42245	BL
courtship song defects	st[1] slo[1]	3	4587	BL
courtship song defects	disco[1]	1	5682	BL
courtship song defects	y[1] w[67c23]; P{w[+mC] y[+mDint2]=EPgy2}iPLA2- VIA[EY05103]	3L 67C11	15947	BL
courtship song defects	y[1] w[67c23]; P{w[+mC] y[+mDint2]=EPgy2}CrebA[EY1 5124]	3L 71E1	20970	BL
courtship song defects	y[1] w[67c23]; P{w[+mC]=lacW}Gr39a[k0510 6] Mio[k05106]/CyO	2L 39C1	10562	BL
courtship song defects	w[1118] Mi{ET1}rad[MB00656]	X 11D10	22862	BL
courtship song defects	tko[3]/FM7a/Dp(1;2;Y)w[+]	1;Y;2	4283	BL
courtship song defects	y[1] w[*]; Mi{y[+mDint2]=MIC}nompA[M I07959]	2R 47F1	44722	BL
courtship song defects	w[1118]; PBac{w[+mC]=PB}to[c00632]	3R 96C7	10202	BL
courtship song defects	oc[otd-XC86]/FM7a	1	5539	BL
courtship song defects	w[*]; ato[1]/TM6B, Tb[1]	1;3	25779	BL
courtship song defects	w[1118]; P{w[+mGT]=GT1}btv[BG01771]	1;2	12589	BL
Expresses wild type S6kII (RSK) under the control of UAS; semi-viable; may carry two insertions, M.B.	w[1118]; P{w[+mC]=UAS-S6kII.B}85/TM3, Sb[1]	1;3	8714	BL
thoracic bristles are short on homozygous females; ry[506] may be segregating, B.D.G.P.	y[1] P{y[+mDint2]} w[BR.E.BR]=SUPor-P}per[KG00546]	1	13104	BL

- BL: Bloomington Drosophila Stock Center, Indiana University, USA

Miscellany

Description	Genotype	ID	Wb
Wild type line Canton-S	---	Cs-K	Wb-
Line with mutation of gene <i>white</i>	w[*]	W	---

W with Cs-K genetic background: outcrossed for 10 generations with Canton-S.	w[*]	WCS-K	Wb-
Wild type line Canton-S from Novosibirsk (Russia)*	---	Cs-Nov	Wb+
Stock with constitutive expression of transposase	Cy/Sp;TM6/SbΔ2-3	G6	---
Stock with balancers	w[*]; Cy/Sp;D/Sb	Bal	---
Positive control for Wolbachia test	C(1)RM, y v f/Y ^{bb-} /wsn	Wb+	Wb+
D. simulans	---	Dsim	---
Wild type line Canton-S from Toronto, Canada	---	Cs-Tor	---
Wild type line Isfl from countries of the Orient	---	Isfl	---
Expresses GAL4 in the pattern of the Actin gene, Iliadi KG*** (Canton-S background of 4414)	w[1118]; P{w[+mC]=} 25FO1/CyO, y[+]	Act-GAL4	---

* Cs-Nov was kindly provided by Grunenko N.E. from stress genetics laboratory of the INSTITUTE OF CYTOLOGY AND GENETICS, The Siberian Branch of the Russian Academy of Sciences

Stocks from natural populations of *Drosophila melanogaster* in Ukrainian territory

Stocks were kindly provided by Svetlana V. Serga, Shevchenko National University of Kyiv, Department of General and Molecular Genetics, Ukraine Stock

ID	Wb	Wolbachia genotype in strain wMel*
Uman' 22-12	Wb+	wMelCS
Uman' 25-12	Wb+	wMelCS
Uman' 26	Wb+	wMelCS
Uman' 59-12	Wb+	wMel
Uman' 43-12	Wb+	wMel
Uman' 8-12	Wb+	wMel
Uman' 22	Wb+	wMel
Uman' 24	Wb+	wMel
Uman' 15-12	Wb-	-
Uman' 37-12	Wb-	-
Uman' 39-12.	Wb-	-

* Riegler, M., Sidhu, M., Miller, W.J., and O'Neill, S.L., Evidence for global Wolbachia replacement in *Drosophila melanogaster*, Curr. Biol., 2005, vol. 15, pp. 1428–1433.