

GENETICS

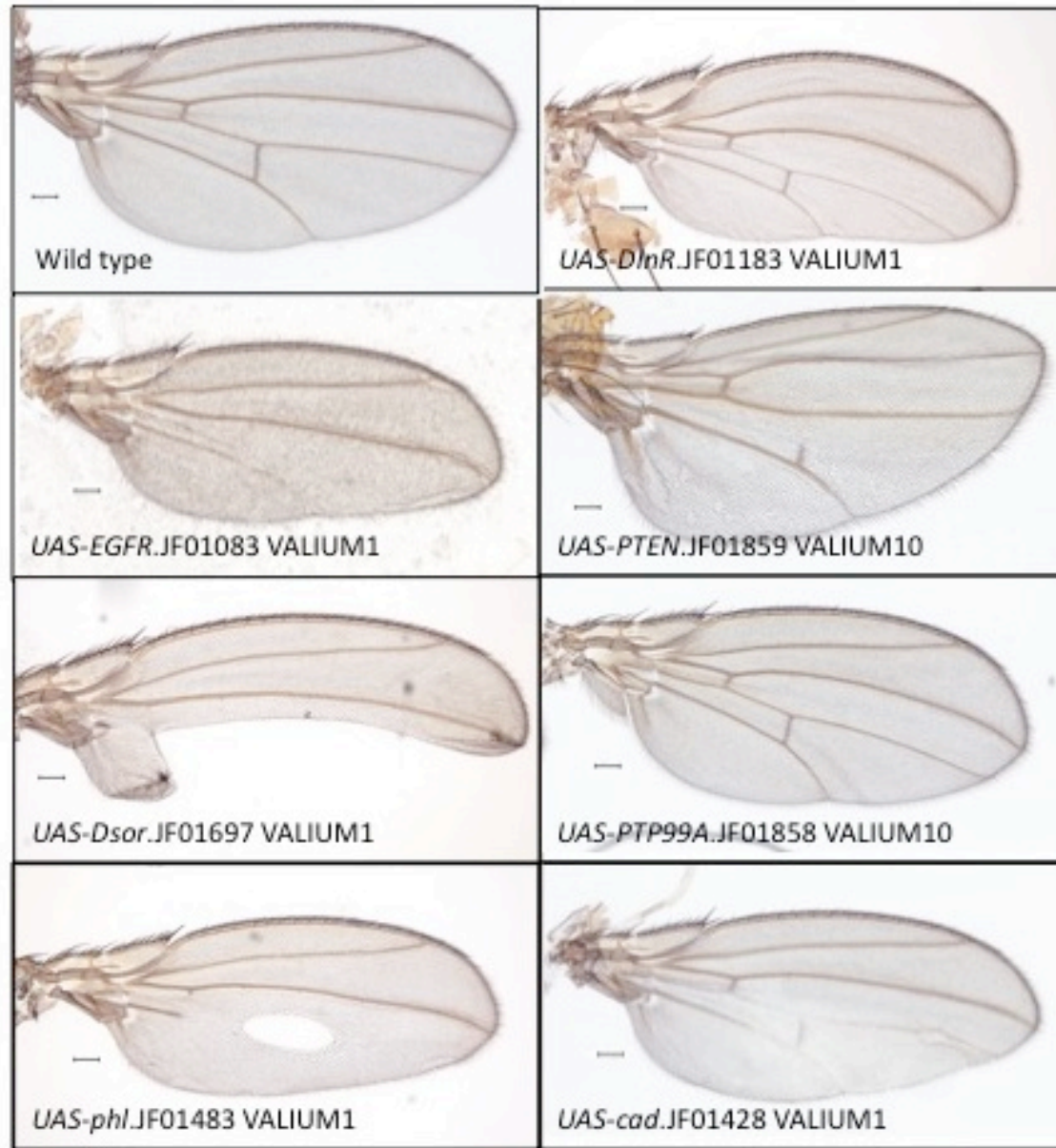
Supporting Information

<http://www.genetics.org/cgi/content/full/genetics.109.103630/DC1>

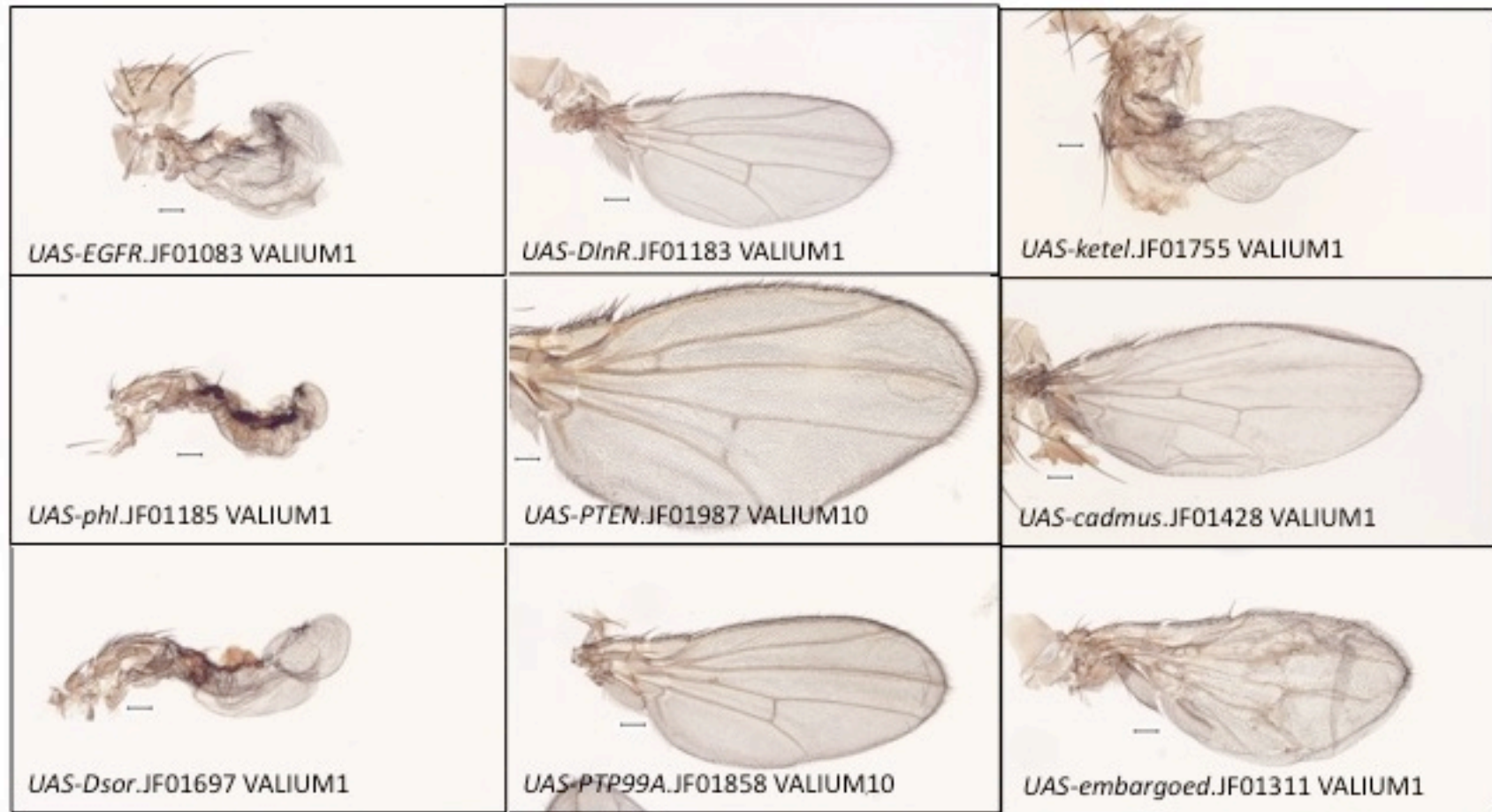
A Drosophila Resource of Transgenic RNAi Lines for Neurogenetics

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Male *UAS-dcr2; engrailed-GAL4* wings



Male *ms1096-GAL4*; *UAS-dcr2* wings

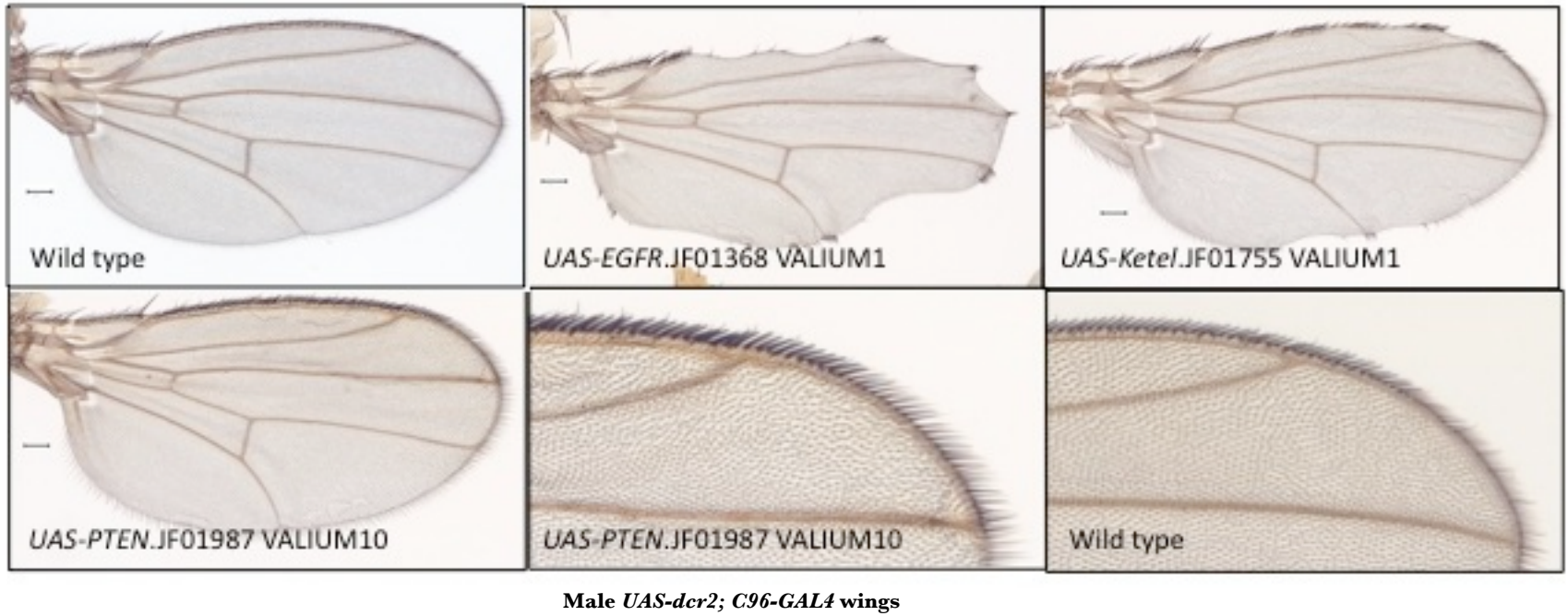


Figure S1.—Examples of wing phenotypes generated using VALIUM1 and VALIUM10.

TABLE S1

The “Toolbox kit” represents a set of lines used in this study to either generate the transgenic RNAi lines or test their efficacy

TRiP Toolbox Stocks	Genotypes	Locations
Injection stocks		
<i>y sc v nanos-integrase; attP40</i>	<i>y[1] sc[1] v[1] P{y[+t7.7]=nos-phiC31\int.NLS}X; P{y[+t7.7]=CaryP}attP40</i>	X; II, 25C7
<i>y v nanos-integrase; attP40</i>	<i>y[1] v[1] P{y[+t7.7]=nos-phiC31\int.NLS}X; P{y[+t7.7]=CaryP}attP40</i>	X; II, 25C7
<i>y sc v nanos-integrase; attP2</i>	<i>y[1] sc[1] v[1] P{y[+t7.7]=nos-phiC31\int.NLS}X; P{y[+t7.7]=CaryP}attP2</i>	X; III, 68A4
Gal4, UAS dcr2 stocks		
<i>w, elav-Gal4; UAS-dcr2</i>	<i>w[1118], P{w[+mC]=GAL4-elav.L}; P{w[+mC]=UAS-Dcr-2.D}2</i>	X; II
<i>w, ms1096-Gal4; UAS-dcr2</i>	<i>w[1118], P{w[+mW.hs]=GawB}Bx[MS1096]; P{w[+mC]=UAS-Dcr-2.D}2</i>	X; II
<i>w, UAS-dcr2; twist-Gal4</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mC]=GAL4-twi.2xPE}1</i>	X; II
<i>w, UAS-dcr2; actin-Gal4/CyO</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mC]=Act5C-GAL4}25FO1 / CyO, Cy[1]</i>	X; II
<i>w, UAS-dcr2; nanos-Gal4</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mC]=GAL4-nos.NGT}40</i>	X; II
<i>w, UAS-dcr2; engrailed-Gal4, UAS-GFP</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mW.hs]=en2.4-GAL4}e16E, P{w[+mC]=UAS-2xEGFP}AH2</i>	X; II
<i>w, UAS-dcr2; blistered-Gal4/CyO</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mC]=bs-GAL4.Term}G1</i>	X; II
<i>w, UAS-dcr2; nubbin-Gal4</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mW.hs]=GawB}nubbin-AC-62</i>	X; II
<i>w, UAS-dcr2; spalt-Gal4</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mW.hs]=GawB}salm[LP39]</i>	X; II
<i>w, UAS-dcr2; Dmef2-Gal4</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mC]=GAL4-Mef2.R}R1</i>	X; II
<i>w, UAS-dcr2; C96-Gal4</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mW.hs]=GawB}bbg[C96]</i>	X; III
<i>w, UAS-dcr2; pannier-Gal4/TM3, Ser</i>	<i>P{w[+mC]=UAS-Dcr-2.D}1, w[1118]; P{w[+mW.hs]=GawB}pnr[MD237] /TM3, Ser[1]</i>	X; III
Mapping stocks		
<i>y sc v; Gla Bc/CyO</i>	<i>y[1] sc[1] v[1]; wg[Gla-1], Bc[1] / CyO, Cy[1]</i>	X; II
<i>y v; Sco/CyO</i>	<i>y[1] v[1]; noc[Sco] / CyO, Cy[1]</i>	X; II
<i>y v; TM3, Sb/TM6, Tb</i>	<i>y[1] v[1]; TM3, Sb[1] / TM6, Tb[1]</i>	X; III
<i>y v; Ly/TM3, Sb</i>	<i>y[1] v[1]; sens[Ly-1] / TM3, Sb[1]</i>	X; III

$y\ v; Sb/TM3,\ Ser$	$y[1]\ v[1]; Sb[1] \ / TM3,\ Ser[1]$	X; III
$y\ v; Dr,\ e/\ TM3,\ Sb$	$y[1]\ v[1]; Dr[1]\ e[1] \ / TM3,\ Sb[1]$	X; III
$y\ sc\ v; Sb/TM3,\ Sb$	$y[1]\ sc[1]\ v[1]; Sb[1] \ / TM3,\ Sb[1]$	X; III

TABLE S2**Information on the various lines used in this study**

Table S2 is available for download as an Excel file at <http://www.genetics.org/cgi/content/full/genetics.109.103630/DC1>.

TABLE S3**List of constructs and transgenic RNAi lines generated as part of this study**

Table S2 is available for download as an Excel file at <http://www.genetics.org/cgi/content/full/genetics.109.103630/DC1>. As lines are being continuously generated, check <http://www.flyrnai.org> for an up to date list.

TABLE S4
Lethality of hairpins (HP) associated with ubiquitous drivers

CG#/gene name	TR#	<i>actin5C-Gal4/CyO</i>		<i>actin5C-Gal4/TM6B, Tb</i>	
		21°C	25°C	21°C	25°C
		act5C/+; HP/+	act5C/+; HP/+	act5C/HP	act5C/HP
<i>CG15860/pain</i>	TR00015A.1				
<i>CG15860/pain</i>	TR00016A.1				
<i>CG11020/nompc</i>	TR00018A.1				
<i>CG7245/ey</i>	TR00021A.1				
<i>CG17759/Gα49B</i>	TR00593A.1	PL	PL	PL	PL
<i>CG4574/Plc21C</i>	TR00595A.1				
<i>CG6518/inaC</i>	TR00601A.1	L	PL	PL	PL
<i>CG5962/Arr2</i>	TR00603A.1				
<i>CG18085/sev</i>	TR00604A.1				
<i>CG1744/chp</i>	TR00610A.1				
<i>CG10609/Or83b</i>	TR00615A.1				
<i>CG10609/Or83b</i>	TR00616A.1	PL	L	PL	PL
<i>CG13984/Gr21a</i>	TR00431A.1	PL	PL		
<i>CG13948/Gr21a</i>	TR00619A.1				
<i>CG2647/per</i>	TR00624A.1				
<i>CG5996/trp</i>	TR00660A.1	PL	L		
<i>CG5996/trp</i>	TR00661A.1				
<i>CG7245/ey</i>	TR00022A.1				

Three different Gal4 lines (*act5C-Gal4/CyO*; *act5C-Gal4/TM6B,Tb*; and *tub-Gal4/TM6B,Tb*) were used. Crosses where significant lethality (more than 70%) of the *Gal4; UAS-RNAi* combination, when compared to the sibling combination *Balancer/UAS-RNAi*, was observed, are indicated as “L”. “PL” indicates instances where lethality was only significant in males, reflecting the observation that RNAi phenotypes are commonly stronger in males (NI *et al.* 2008).