

Gene perturbed	Biological function	Gene perturbation Type	Construct/ TRip #	Stock Number	Prepupae scored	Lethality Stage	Eclosion [%]	Flightless rate [%]
7B2	Proteolysis, peptidase activator	RNAi	UAS-7B2-lhRNA (Long Hairpin JF02917)	B-27989	20	PP 5%	95%	0%
Activator of SUMO 1 (Aos1)	Protein sumoylation	RNAi	UAS-Aos1-shRNA (Short Hairpin GL00493)	B-36074	20	LP 25%	75%	0%
Adenosine deaminase acting on RNA (Adar)	RNA editing	RNAi	UAS-Adar-lhRNA (Long Hairpin JF02942)	B-28311	20		100%	0%
Akt1	Cell growth, organ size	Protein OE	UAS-Akt1	B-8191	15		100%	0%
Akt1	Cell growth, organ size	RNAi	UAS-Akt1-lhRNA (Long Hairpin HM04007)	B-31701	20	LP 35%	65%	partial
Akt1	Cell growth, organ size	RNAi	UAS-Akt1-shRNA (Short Hairpin HMS00007)	B-33615	0	BP 100%	0%	n.d.
ALG-2 interacting protein X (ALiX)	Ubiquitin dependent proteolysis	RNAi	UAS-ALiX-shRNA (Short Hairpin HMS00298)	B-33417	20		100.0%	n.d.
AMP-activated protein kinase alpha (AMPKalpha)/SNF1A	Protein kinase	RNAi	UAS-AMPKalpha-lhRNA (Long Hairpin JF01951)	B-35137	20		90.0%	yes
Atrophin (Atro)/Grunge	Atrophin homolog	RNAi	UAS-Grunge-shRNA (Short Hairpin HMS00756)	B-32961	20		95%	yes
Autophagy-related-1 (Atg1)	Autophagy	RNAi	UAS-Atg1-shRNA (GL00047)	B-35177	20		100.0%	n.d.
Autophagy-related-10 (Atg10)	Autophagy	RNAi	UAS-Atg10-shRNA (Short Hairpin HMS02026)	B-40859	20		100%	n.d.
Autophagy-related-101 (Atg101)	Autophagy	RNAi	UAS-Atg101-shRNA (Short Hairpin HMS01349)	B-34360	20			n.d.
Autophagy-related-12 (Atg12)	Autophagy	RNAi	UAS-Atg12-RNAi (Short Hairpin HMS01153)	B-34675	20	EP 5%	95%	0%
Autophagy-related-13 (Atg13)	Autophagy	RNAi	UAS-Atg13-shRNA *Short Hairpin HMS02028)	B-40861	20			n.d.
Autophagy-related-14 (Atg14)	Autophagy	RNAi	UAS-Atg14-shRNA (Short Hairpin HMS02025)	B-40858	20	PP 5%, LP 15%	80%	50%
Autophagy-related-16 (Atg16)	Autophagy	RNAi	UAS-Atg16-shRNA (Short Hairpin HMS01347)	B-34358	20			n.d.

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Autophagy-related-17 (Atg17)	Autophagy	RNAi	UAS-Atg17-shRNA (Short Hairpin HMS01611)	B-36918	20			n.d.
Autophagy-related-18 (Atg18)	Autophagy	RNAi	UAS-Atg18-shRNA (Short Hairpin HMS01193)	B-34714	20		100%	0%
Autophagy-related-2 (Atg2)	Autophagy	RNAi	UAS-Atg2-shRNA (Short Hairpin HMS01198)	B-34719	0	BP 100%	0%	n.d.
Autophagy-related-4a (Atg4a)	Autophagy	RNAi	UAS-Atg4-shRNA (Short Hairpin HMS01482)	B-35740	20	LP 2%	98%	78%
Autophagy-related-5 (Atg5)	Autophagy	RNAi	UAS-Atg5-shRNA (Short Hairpin HMS01244)	B-34899	20		100%	0%
Autophagy-related-6 (Atg6)	Autophagy	RNAi	UAS-Atg6-shRNA (Short Hairpin HMS01483)	B-35741	20	LP 2%	98%	0%
Autophagy-related-7 (Atg7)	Autophagy	RNAi	UAS-Atg7-shRNA (Short Hairpin HMS01358)	B-34369	20		100%	0%
Autophagy-related-8a (Atg8a)	Autophagy	RNAi	UAS-Atg8a-shRNA (Short Hairpin HMS01328)	B-34340	20		100%	0%
Autophagy-related-8b (Atg8b)	Autophagy	RNAi	UAS-Atg8b-shRNA (Short Hairpin HMS01245)	B-34900	20		100%	0%
Autophagy-related-9 (Atg9)	Autophagy	RNAi	UAS-Atg9-shRNA (Short Hairpin HMS01246)	B-34901	20		100%	0%
bent (bt)	sarcomere organization	RNAi	UAS-bt-lhrRNA (Long Hairpin JF01108)	B-31546	0	larval	0%	n.d.
beta subunit of type I geranylgeranyl transferase (betaggt-I)	Protein prenylation, RAS signalling	RNAi	UAS-betaggt-I-shRNA (Short Hairpin HMS01165)	B-34687	20		100%	0%
Bruce	apoptosis	RNAi	UAS-dBruce-RNAi	VDRC 107620	14		100%	0%
Bruce	apoptosis	RNAi	UAS-dBruce-RNAi	VDRC 48309	20		95%	0%
Cadherin 99C (Cad99C)	Cell adhesion	RNAi	UAS-Cad99C-lhrRNA (Long Hairpin JF02660)	B-27510	20	LP 5%	95%	0%
Cadherin 99C (Cad99C)	Cell adhesion	RNAi	UAS-Cad99c-shRNA (Short Hairpin HMS01451)	B-35037	20	LP 10%	90%	0%

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cAMP-dependent protein kinase 1 (Pka-C1)	protein kinase	RNAi	UAS-Pka-C1-shRNA (Short Hairpin GL00038)	B-35169	20		100%	0%
Catalase (Cat)	Heart morphogenesis	RNAi	UAS-Cat-shRNA (Short Hairpin HMS00990)	B-34020	20		90%	0%
cathD	autophagic cell death, proteolysis	RNAi	UAS-cathD-lhrRNA (Long Hairpin HM05189)	B-28978	15		100%	0%
CG13579	G-protein couples receptor	RNAi	UAS-CG13579-lhrRNA (Long Hairpin JF03059)	B-28644	20		100%	0%
chico	Cell size, proliferation	RNAi	UAS-chico-shRNA (Short Hairpin HMS01553)	B-36665	20		95%	0%
chico	Cell size, proliferation	RNAi	UAS-chico-shRNA (Short Hairpin GL00525)	B-36788	20		95%	0%
Chro (Chromator)	Interacts with EAST	RNAi	UAS-Chro-shRNA (Short Hairpin GL00503)	B-36084	30	LP 2%	97%	0%
coracle (cora)	actin cytoskeleton, heart development	RNAi	UAS-cora-shRNA (Short Hairpin HMS01413)	B-35003	20		100%	no
Cysteine Proteinase 1 (Cp1)	autophagic cell death	RNAi	UAS-Cp1-shRNA (Short Hairpin HMS02336)	B-41939	20		100%	0%
Cysteine Proteinase 1 (Cp1)	autophagic cell death	RNAi	UAS-Cp1-shRNA (Short Hairpin HMS00725)	B-32932	20	LP 5%	95%	0%
dawdle	Myostatin homolog	RNAi	UAS-dawdle-shRNA (Short Hairpin HMS01110)	B-34974	20			
death executioner Bcl-2 homologue (debcl)	apoptosis	RNAi	UAS-debcl-lhrRNA (Long Hairpin JF02429)	B-27083	20		100%	0%
Death-associated inhibitor of apoptosis 2 (Diap2)	apoptosis	RNAi	UAS-Diap2-shRNA (Short Hairpin HMS00085)	B-34476	20			no
defective proboscis extension response 5 (dpr5)	unknown	RNAi	UAS-dpr5-lhrRNA (Long Hairpin JF03306)	B-29627	20	PP 5%, LP 5%	90%	0%
Drosophila inhibitor of apoptosis 1 (Diap1)	negative regulator of apoptosis	Protein OE	UAS-Diap1	B-6657	20		100%	0%
Drosophila inhibitor of apoptosis 1 (Diap1)	Apoptosis	RNAi	UAS-Diap1-shRNA (Short Hairpin HMS00752)	B-33957	20			n.d.

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east	Cell death, delays cell death of salivary glands & muscles	Protein OE	UAS-eastN2(1-1520)-GFP	MW	40		98%	0%
east	Cell death, delays cell death of salivary glands & muscles	Protein OE	UAS-eastN1(1-1902)-GFP	MW	46		65%	100%
east	Cell death, delays cell death of salivary glands & muscles	RNAi	UAS-east-shRNA Short Hairpin HMS00816)	B-33879	0	BP+PP 100%	0%	n.d.
Ecdysone Receptor (EcR)	Master regulator of metamorphosis	RNAi	UAS-EcR-RNAi	B-9326	1	BP+PP 100%	0%	n.d.
Ecdysone-induced protein 63E (Eip63E)	Metamorphosis	RNAi	UAS-Epi63E-shRNA, Short Hairpin HMS00569)	B-34075	20	EP 20%	80%	0%
Endophilin B (EndoB)	Membrane organization	RNAi	UAS-EndoB-shRNA (Short Hairpin HMS01285)	B-34935	20			n.d.
escargot (esg)	Transcription factor	RNAi	UAS-esg-shRNA (Short Hairpin HMS00025)	B-34063	20	LP 35%	65%	partial
forkhead box, sub-group O (foxo)	insulin receptor signalling, muscle atrophy	Protein OE	UAS-foxo	B-9575	0	BP+PP 100%	0%	n.d.
forkhead box, sub-group O (foxo)	insulin receptor signalling, muscle atrophy	RNAi	UAS-foxo-shRNA (Short Hairpin HMS00422)	B-32427	20			n.d.
GXIVsPla2	phospholipase A2	RNAi	UAS-GXIVsPLA2-shRNA (Short Hairpin HMS00918)	B-33961	34	PP 9%, EP 26%, LP44%	21%	100%
happyhour (hppy)	Cell death, size and growth	RNAi	UAS-hppy-shRNA (Short Hairpin GL00185)	B-35284	20		100%	0%
Heterogeneous nuclear ribonucleoprotein at 98DE (Hrb98DE)	mRNA splicing	RNAi	UAS-Hrb98DE-shRNA (Short Hairpin HMS00342)	B-32351	20	EP 25%, LP 40%	35%	100%
hippo (hpe)	Hippo pathway, organ-size, proliferation	RNAi	UAS-Hippo-RNAi	33614				0%

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hippo (hpo)	Hippo pathway, organ size, proliferation	RNAi	UAS-hpo-shRNA (Short Hairpin GL00046)	B-35176	20		100%	0%
immune response deficient 1 (ird1)	Autophagy	RNAi	UAS-ird1-shRNA (Short Hairpin GL00085)	B-35209	20			0%
Insulin-like receptor (InR)	cell survival, body and organ size	RNAi	UAS-InR-shRNA (Short Hairpin GL00139)	B-35251	20	PP 5%, EP 80%, LP 10%	5%	yes
Lola-like (lolal)	chromatin silencing	RNAi	UAS-lolal-shRNA (Short Hairpin GLV21087)	B-35722	20	LP 5%	95%	0%
Lst8	Cell size, TOR signalling	RNAi	UAS-Lst8-shRNA (Short Hairpin HMS01350)	B-34361	20			
Megator (Mtor)	mitosis, chromatin, nuclear pore complex	RNAi	UAS-Mtor-shRNA (Short Hairpin HMS00735)	B-32941	0	BP+PP 100%	0%	n.d.
misfire (mfr)	Ferlin domain	RNAi	UAS-mfr-shRNA (Short Hairpin GLV21054)	B-35689	20	LP 25%	75%	No
modifier of rpr and grim, ubiquitously expressed (morgue)	cell death	RNAi	UAS-morgue-RNAi	VDRC 11090	15	LP 7%	93%	0%
Molecule interacting with CasL (Mical)	sarcomere organization, actin depolymerization	RNAi	UAS-Mical-lhRNA (Long Hairpin JF01625)	B-31148	20		100%	No
Msp300 (Muscle specific protein 300)	muscle differentiation	RNAi	UAS-Msp300-shRNA (Short Hairpin HMS00368)	B-32377	20			n.d.
Muscle protein 20 (Mp20)	muscle differentiation	RNAi	UAS-Mp20-shRNA (Short Hairpin HMS00630)	B-34963	20			n.d.
muscleblind (mbi)	muscle development	RNAi	UAS-mbi-lhRNA (Long Hairpin JF03264)	B-29585	20			n.d.
Myo31DF (Myosin 31DF)	movement of organelles	RNAi	UAS-Myo31DF-shRNA (Short Hairpin HMS00928)	B-33971	20		100%	0%
myotubularin (mtm)	myotubularin	RNAi	UAS-mtm-shRNA (Short Hairpin HMS01806)	B-38339	20			n.d.
p53	cell death	RNAi	UAS-p53-shRNA (Short Hairpin GL01032)	B-36814	21		100%	0%
p53	cell death	RNAi	UAS-p53-shRNA (Short Hairpin HMS02286)	B-41720	20	EP 5%	95%	0%

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pelle (pll)	cell death	RNAi	UAS-pll-shRNA (Short Hairpin HMS01213)	B-34733	20		100%	0%
pelle (pll)	cell death	RNAi	UAS-pll-shRNA (Short Hairpin GL00150)	B-35577	20		100%	0%
Phosphofructokinase (Pfk)	Metabolism	RNAi	UAS-Pfk-shRNA (Short Hairpin GL00298)	B-36782	20		100%	0%
Phosphofructokinase (Ppfk)	Metabolism	RNAi	UAS-Pfk-shRNA (Short Hairpin HMS01324)	B-34336	4	few prepupae	100%	100%
Phosphatidylinositol 3 kinase 59F (Pi3K59F)	autophagy	RNAi	UAS-Pi3K59F-shRNA (Short Hairpin GL00175)	B-36056	20			n.d.
Polycomblike (Pcl)	Transcription factor	RNAi	UAS-Pcl-shRNA (Short Hairpin HMS00897)	B-33946	20		100%	0%
Rac1	Muscle cell differentiation	Protein OE (CA)	UAS-Rac1.V12	B-6291	0	BP 100%	0%	n.d.
Rac1	Muscle cell differentiation	Protein OE (DN)	UAS-Rac1.N17	B-6292	10	EP 50%, LP 17%	33%	100%
rapamycin-insensitive companion of Tor (rictor)	TOR pathway	RNAi	UAS-rictor-shRNA (Short Hairpin GL00544)	B-36584	20	LP 5%	95%	33%
rapamycin-insensitive companion of Tor (rictor)	TOR pathway	RNAi	UAS-rictor-shRNA (Short Hairpin HMS01588)	B-36699	20		100%	0%
Ras	cell death and proliferation	Protein OE (DN)	UAS-Ras.N17	B-4846	20		100%	0%
Ras homolog enriched in brain ortholog (Rheb)	TOR pathway	Protein OE	UAS-Rheb (3rd)	B-9689	15		100%	100%
Ras homolog enriched in brain ortholog (Rheb)	TOR pathway	RNAi	UAS-Rheb-shRNA (Short Hairpin HMS00923)	B-33966	32	LP 19%	81%	100%
Ras oncogene at 64B (Ras64B)	cell death and proliferation	Protein OE (CA)	UAS-Ras64B.V14	B-2025	9		100%	100%
Ras oncogene at 85D (Ras85D)	cell death and proliferation	Protein OE	UAS-Ras85D	B-5788	20		100%	0%

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Ras85D	cell death and proliferation	Protein OE (CA)	UAS-Ras.V12	B-4847	0	BP 100%	0%	n.d.
Ras85D	cell death and proliferation	Protein OE (DN)	UAS-Ras85D.N17	B-4845	20		100%	0%
reaper (rpr)	cell death	Protein OE	UAS-rpr	B-5824	0	BP 100%	0%	n.d.
Rho1	actin cytoskeleton	Protein OE (DN)	UAS-Rho1.N19	B-7328	10	LP 70%	30%	0%
Rm62	RNA interference, RNA helicase	RNAi	UAS-Rm62-shRNA (Short Hairpin HMS00144)	B-34829	54	PP 6%, EP 2%, LP 54%	39%	100%
RPS6-p70-protein kinase (S6k)	protein translation	RNAi	UAS-S6k-shRNA (Short Hairpin GL01327)	B-41895	20			n.d.
salvador	Hippo pathway, organ size, proliferation	RNAi	UAS-salvador-shRNA (Short Hairpin HMS00760)	B-32965	20			0%
scarface (scaf)	proteolysis	RNAi	UAS-scaf-lhRNA (Long Hairpin JF03318)	B-29386	20		100%	0%
seizure (sei)	potassium channel	RNAi	UAS-sei-lhRNA (Long Hairpin JF01474)	B-31681	20		100%	0%
Skeletor	spindle matrix	RNAi	UAS-Skeletor-lhRNA (Long Hairpin JF01407)	B-31622	20		100%	0%
small ribonucleoprotein particle U1 subunit C (snRNP-U1-C)	mRNA splicing	RNAi	UAS-snRNP-U1-C-shRNA (Short Hairpin HMS00137)	B-34822	0	BP 100%	0%	n.d.
spalt-major (salm)	Muscle cell differentiation, myofibre switch	RNAi	UAS-salm-RNAi (Short Hairpin HMS00594)	B-33714	20		100%	0%
Target of rapamycin (TOR)	TOR pathway, cell size control	Protein OE	UAS-TOR	B-7012	20	PP 85%, EP 10%, LP 5%	0%	n.d.
Target of rapamycin (TOR)	TOR pathway, cell size control	Protein OE (DN)	UAS-TOR-TED	B-7013	51	22% EP, 27% LP	51%	20%
Target of rapamycin (TOR)	TOR pathway, cell size control	RNAi	UAS-TOR-shRNA (Short Hairpin GL00156)	B-35578	20	LP 20%	80%	partial (29%)

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Target of rapamycin (TOR)	TOR pathway, cell size control	RNAi	UAS-TOR-shRNA (Short Hairpin HMS01114)	B-34369	20		100%	0%
Target of rapamycin (TOR)	TOR pathway, cell size control	RNAi	UAS-TOR-shRNA (Short Hairpin HMS00904)	B-33951	7	PP 100%	0%	n.d.
target of rapamycin (TOR)-associated protein (raptor)	TOR signalling	RNAi	UAS-raptor-shRNA (Short Hairpin HMS00124)	B-34814	15	PP 100%	0%	n.d.
terribly reduced optic lobes (trol)		RNAi	UAS-trol-shRNA (Short Hairpin GL01153)	B-42783	20			n.d.
thin, another B-box affiliate (tn)	muscle development	RNAi	UAS-tn-shRNA (Short Hairpin HMS02508)	B-42826	20			0%
Tsc1	TOR pathway, cell size control	RNAi	UAS-Tsc1-shRNA (Short Hairpin GL00012)	B-35144	20		80%	22%
Tsc2, gigas (gig)	TOR pathway, cell size control	RNAi	UAS-Tsc2-shRNA (Short Hairpin HMS01217)	B-34737	20	PP 20%, EP 5%, LP 15%	60%	64%
Tsc2, gigas (gig)	TOR pathway, cell size control	RNAi	UAS-Tsc2-shRNA (Short Hairpin GL00321)	B-35401	21		100%	6%
Ubiquitin conjugating enzyme (UbcD6)	Proteolysis	RNAi	UAS-UbcD6-shRNA (Short Hairpin GL00405)	B-35476	20	LP 5%	95%	0%
Unc-89	sarcomere organization, muscle differentiation	RNAi	UAS-Unc-89-shRNA (Short Hairpin HMS00963)	B-34000	20		100%	0%
UV-resistance associated gene (UVRAG)	Autophagy, Cell growth	RNAi	UAS-Uvrag-shRNA (Short Hairpin HMS01357)	B-34368	20			n.d.
warts (wts)	Hippo pathway, organ size, proliferation	RNAi	UAS-wts-shRNA (Short Hairpin HMS00026)	B-34064	20		100%	0%
yorkie (yki)	Hippo pathway, organ size, proliferation	RNAi	UAS-yki-shRNA (Short Hairpin HMS00041)	B-34067	15	LP 7%	93%	100%