

Table S1. Fly lines.

Bloomington Stock ID#	Genotype	Description
28794	y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.JF03222}attP2/TM3, Sb[1]	Obp44a RNAi
31549	y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.JF01111}attP2	Prm RNAi
34742	y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMS01222}attP2	Chc RNAi
34865	y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMS00184}attP2/TM3, Sb[1]	Tudor-SN RNAi
34963	y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMS00630}attP2	Mp20 RNAi
34670	P{TRiP.HMS01148}attP2	Rab1 RNAi
56932	y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMC04371}attP40	alpha-Spec RNAi
42802	y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.GL01174}attP2	beta-Spec RNAi
60347	y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.HMJ22488}attP40	Act88F RNAi
63994	y[1] v[1]; P{y[+t7.7] v[+t1.8]=TRiP.HMJ30307}attP40/CyO	Mitofilin RNAi
64858	y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMC05731}attP40	betaTub97EF RNAi
77376	y[1] sc[*] v[1] sev[21]; P{y[+t7.7] v[+t1.8]=TRiP.HMC06507}attP40	Tm1 RNAi
2017	w[*]; P{w[+mW.hs]=GawB}ptc[559.1]	Cyst cell driver
58447	w[*]; TI{w[+mW.hs]=TI}Pkd2[ko67], P{w[+mC]=protamineB-eGFP}2/CyO; P{w[+mC]=dj-GFP.S}3	Sperm tail reporter
Gift from Thomas Wilson	w1118	Wild type control