Table SI. G proteins in *D. melanogaster* genome

G proteins	Expression patterns	Loss-of-function phenotype	Loss-of-function phenotype in germ cells	References
Gα				
Gα12/13 (*cta*)	Maternal, germ cells, posterior midgut	Viable maternal gastrulation defect	NP	Parks and Wieschaus, 1991
Gαf	Maternal, midgut,amnioserosa	NA	NA	Quan et al., 1993
Gαi	Maternal, CNS	Maternal, zygotic larval lethal	NP	Wolfgang et al., 1991; Yu et al., 2003
Gαq	Maternal, eye, brain, testis	Viable (hypomorph)	NP	BDGP; Scott et al., 1995; Schulz et al., 1999
Gαs	Brain, follicle cells	Lethal behavior	NT	Wolfgang et al., 1991, 2001
Gαo (*bkh*)	Maternal, CNS, mesoderm	Lethal oogenesis defect	NT	Fremion et al., 1999; Katanaev and Tomlinson, 2006
Gβ				
Gβ5	NA	NA	NA	
Gβ13f	Maternal, germ cells	Lethal maternal gastrulation defect	Transepithelial migration	Schaefer et al., 2001; Fuse et al., 2003
Gβ76C	Zygotic, Bolwig's organ, photoreceptors	Viable	NP	BDGP, Dolph et al., 1994; Schulz et al., 1999
Gγ				
Gγ1	Maternal, CNS	Lethal maternal gastrulation defect	Transepithelial migration	Izumi et al., 2004; Wang et al., 2005
Gγ30A	Photoreceptors	NA	NA	Schulz et al., 1999

BDGP, Berkeley Drosophila Genome Project; CNS, central nervous system; NA, not available; NP, no phenotype.

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