

Gene	Known function in germ cell development in Drosophila	Orthologs	Known function of orthologs in germ cell development
CycA	maintenance of GSC[1] Cystocyte cell cycle[2]	Ccna1; Ccna2(mouse)	Male meiosis [3,4] Suggested role in female meiosis [5]
CycB	PGC and GSC proliferation [6]	cyb-1 (C.elegans) ccnb1 (D. rerio) Ccnb1 (mouse)	Meiosis [7] Oocyte maturation [8] Meiosis [9]
dsx	Sex determination [10]	dmrt genes	Sex determination [11]
nos	Germline formation [12] GSC maintenance [13] GSC differentiation [14]	nanos genes	Germ cell development [15–18]
ovo	Germ line sex determination [19] Female germ line development [20]	Ovol1; Ovol2 (mouse)	Spermatogenesis [21,22]
pbl	Male meiosis [23]	Ect2 (mouse)	Oocyte meiosis [24]
Su(var)205	-	Cbx1; Cbx3 (mouse)	Spermatogenesis [25] PGC cell cycle [26]
orb	localization and transcription of osk mRNA [27,28] Spermatogenesis [29]	CPEB (Xenopus)	Oocyte maturation [30,31]
Phf7	Sex determination [32]	NYD-SP6/Phf7 (mouse)	Spermatogenesis [33]
bel	Germ line viability [34]	DDXY (human)	Spermatogenesis [35,36]
nclb	GSC maintenance in males [37]	-	-
spir	osk localization in oocyte [38]	Spire1, Spire2 (mouse)	Meiosis [39]
neur	GSC maintenance [40]	-	-
mael	Oocyte development [41,42] GSC differentiation [43]	-	-
pgc	PGC development [44,45]	-	-
zpg	Germ cell differentiation [46,47]	inx-13 (C.elegans)	Oocyte maturation [48]
mei-P26	Germ cell differentiation [49–51]	-	-
Tre1	Germ cell migration [52]	-	-
scra	Spermatocyte development [53,54]	ani-1, ani-2 (C.elegans)	Oocyte maturation, meiosis [55]

Supplementary References

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