

Table S2. Low frequency of meiotic maturation in *acy-4(lf)* mutants

Genotype	Gonad arms containing endomitotic oocytes			
	1-day adult (<i>n</i>)	2-day adult (<i>n</i>)	3-day adult (<i>n</i>)	4-day adult (<i>n</i>)
Wild type	0% (30)	0% (22)	0% (12)	0% (10)
<i>acy-4(ok1806)</i>	0% (34)	13% (38)	22% (30)	23% (25)

Meiotic maturation was examined in *acy-4(lf)* mutants over longer periods. The sterility defect of *acy-4(lf)* mutants is not due to a failure in ovulation because no endomitotic oocytes, which result from defective ovulation, were observed in 1-day adults. Instead, the *acy-4(lf)* oocytes of 1-day-old adults contain six bivalents within the nucleus that are in diakinesis of prophase I. With time, stochastic meiotic maturation occurs at low frequency in *acy-4(lf)* mutants, as it does in females; however, ovulation is also blocked, and a few endomitotic oocytes accumulate in the gonad arm at later times. The few oocytes that are ovulated in unmated females become endomitotic in the uterus.