

Table S2 Complementation tests to define *Top2* alleles y^1w^{67c23} ; *Top2^m/CyO*, $y^+ \times y^1w^{67c23}$; *Top2^{Df9043}/CyO*, y^+

Allele Name	18°C	25°C	25°C
	Maternally transmitted allele	Maternally transmitted allele	Paternally transmitted allele
	% viability ^a		
<i>Df17</i>	ND	0 ^a (604) ^b	0 (196)
<i>Df35</i>	ND	0 (424)	0 (695)
17-1	1 (710) ^c	0 (359)	0 (412)
17-2	29 (906) ^{c, d}	0 (193)	0 (170)
17-3	0 (737)	0 (263)	0 (189)
<i>17-4</i>	ND	137 (249)	110 (122)
17-5	0 (895)	0 (430)	0 (287)
17-6	0 (939)	0 (207)	0 (295)
17-7	0 (467)	0 (211)	0 (389)
35-1	0 (535)	0 (300)	0 (99)
35-2	0 (874)	0 (289)	0 (104)
35-3	0 (898)	0 (283)	0 (102)
<i>35-4</i>	ND	25 (438)	87 (453)
35-5	0 (803)	0 (423)	0 (815)
35-6	0 (631)	0 (120)	0 (160)
<i>35-7</i>	ND	127 (229)	159 (208)
<i>35-8</i>	ND	118 (320)	113 (238)
<i>35-9</i>	ND	205 (112)	124 (302)
35-12	0 (703)	0 (69)	0 (207)
35-13	0 (611)	0 (115)	0 (218)
35-14	0 (1065)	0 (226)	0 (162)

^a Percent viability is the # of Cy^+ flies divided by half the # of Cy^- flies multiplied by 100.

^b Total # of Cy^- flies scored.

^c *Top2^m/Top2^{Df9043}* flies become stuck in food.

^d *Top2¹⁷⁻²/Top2^{Df9043}* males are sterile; females immediately become stuck in food.

ND: Not determined.

Bold indicates the fourteen lethal alleles at 25°C.