

Table S3 Refining the mapping of *bubR1* modifiers

Female genotype	Breakpoint	Normal progeny		Exceptional progeny		Total adjusted progeny	X NDJ
		X/XY & X/O	XX/O	O/XY	O/XY		
<i>Df(3R)D605</i> – enhancer							
<i>Df(3R)D605/+</i>		2033	1	0		2035	0.10%
<i>bubR1^{D1326N}/bubR1^{rev1}</i>		3271	194	156		3971	17.63%
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)D605/+</i>	97E2;98A3-4	1010	213	26		1488	32.12%*
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)ED6255/+</i>	97D2;97F1	2720	157	61		3156	13.81%
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)Exel6206/+</i>	97E1;97E5	1233	107	26		1499	17.75%
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)ED6265/+</i>	97E2;98A7	990	216	118		1658	40.29%*
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)ED6237/+</i>	97E4;97E11	2648	214	98		3272	19.07%
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)IR16/+</i>	97F1-2;98A	1934	222	80		2538	23.80%
<i>Df(3R)ED5559</i> – suppressor							
<i>bubR1^{D1326N}/bubR1^{rev1}</i>		1452	149	48		1846	21.34%
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)ED5559/+</i>	86E11;87B11	270	0	0		270	0.00%*
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)ED5516/+</i>	86D8;86E13	651	61	19		811	19.73%
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)Exel8154/+</i>	86E13;86E18	582	52	16		718	18.94%
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)Exel7310/+</i>	86E18;87A1	863	85	21		1075	19.72%
<i>bubR1^{D1326N}/bubR1^{rev1}; Df(3R)ED5577/+</i>	86F9;87B13	1506	0	1		1508	0.13%*
<i>bubR1^{D1326N}/bubR1^{rev1}; aur¹/+</i>		1562	160	28		1938	19.40%
<i>bubR1^{D1326N}/bubR1^{rev1}; aur^{87Ac-3}/+</i>		1302	119	28		1596	18.42%

*The percentage of X NDJ is significantly higher/lower than in *X/X;bubR1^{D1326N}/bubR1^{rev1}* females (multinomial-Poisson hierarchy model, $P < 0.05$).