

Supplementary Table 2 | p53 deficiency does not suppress the embryonic lethality of *Aldh2*^{-/-}*Fancd2*^{-/-} mice in *Aldh2*^{-/-} mothers

a *Aldh2* +/- *Fancd2* +/- (C57BL/6 males) × *Aldh2* +/- *Fancd2* +/- (129/Sv females)

	Mendelian ratios (%)	Observed ratios (%)	Observed number
<i>Aldh2</i> +/- <i>Fancd2</i> +/-	6.25	7.30	87
<i>Aldh2</i> +/- <i>Fancd2</i> +/-	12.5	12.34	147
<i>Aldh2</i> +/- <i>Fancd2</i> -/-	6.25	6.38	76
<i>Aldh2</i> +/- <i>Fancd2</i> +/-	12.5	14.11	168
<i>Aldh2</i> +/- <i>Fancd2</i> +/-	25.0	25.61	305
<i>Aldh2</i> +/- <i>Fancd2</i> -/-	12.5	12.34	147
<i>Aldh2</i> -/- <i>Fancd2</i> +/-	6.25	6.05	72
<i>Aldh2</i> -/- <i>Fancd2</i> +/-	12.5	11.08	132
<i>Aldh2</i> -/- <i>Fancd2</i> -/-	6.25	4.79	57

P = 0.1504 1191

b *Aldh2* -/- *Fancd2* +/- (C57BL/6 males) × *Aldh2* +/- *Fancd2* +/- (129/Sv females)

	Mendelian ratios (%)	Observed ratios (%)	Observed number
<i>Aldh2</i> +/- <i>Fancd2</i> +/-	12.5	14.01	51
<i>Aldh2</i> +/- <i>Fancd2</i> +/-	25.0	23.90	87
<i>Aldh2</i> +/- <i>Fancd2</i> -/-	12.5	10.16	37
<i>Aldh2</i> -/- <i>Fancd2</i> +/-	12.5	12.09	44
<i>Aldh2</i> -/- <i>Fancd2</i> +/-	25.0	28.30	103
<i>Aldh2</i> -/- <i>Fancd2</i> -/-	12.5	11.54	42

P = 0.8194 364

d *Aldh2* -/- *Fancd2* +/- *p53* -/- (C57BL/6 males) × *Aldh2* +/- *Fancd2* +/- *p53* +/- (129/Sv females)

	Mendelian ratios (%)	Observed ratios (%)	Observed number
<i>Aldh2</i> +/- <i>Fancd2</i> +/- <i>p53</i> +/-	6.25	4.76	6
<i>Aldh2</i> +/- <i>Fancd2</i> +/- <i>p53</i> -/-	6.25	7.14	9
<i>Aldh2</i> +/- <i>Fancd2</i> +/- <i>p53</i> +/-	12.5	15.87	20
<i>Aldh2</i> +/- <i>Fancd2</i> +/- <i>p53</i> -/-	12.5	7.94	10
<i>Aldh2</i> +/- <i>Fancd2</i> -/- <i>p53</i> +/-	6.25	9.52	12
<i>Aldh2</i> +/- <i>Fancd2</i> -/- <i>p53</i> -/-	6.25	3.17	4
<i>Aldh2</i> -/- <i>Fancd2</i> +/- <i>p53</i> +/-	6.25	8.73	11
<i>Aldh2</i> -/- <i>Fancd2</i> +/- <i>p53</i> -/-	6.25	7.14	9
<i>Aldh2</i> -/- <i>Fancd2</i> +/- <i>p53</i> +/-	12.5	13.49	17
<i>Aldh2</i> -/- <i>Fancd2</i> +/- <i>p53</i> -/-	12.5	11.11	14
<i>Aldh2</i> -/- <i>Fancd2</i> -/- <i>p53</i> +/-	6.25	3.97	5
<i>Aldh2</i> -/- <i>Fancd2</i> -/- <i>p53</i> -/-	6.25	7.14	9

P = 1.0 126

c *Aldh2* -/- *Fancd2* +/- (C57BL/6 males) × *Aldh2* -/- *Fancd2* +/- (129/Sv females)

	Mendelian ratios (%)	Observed ratios (%)	Observed number
<i>Aldh2</i> -/- <i>Fancd2</i> +/-	25	37.29	22
<i>Aldh2</i> -/- <i>Fancd2</i> +/-	50	62.71	37
<i>Aldh2</i> -/- <i>Fancd2</i> -/-	25	0	0

P < 0.0001 59

e *Aldh2* -/- *Fancd2* +/- *p53* -/- (C57BL/6 males) × *Aldh2* -/- *Fancd2* +/- *p53* +/- (129/Sv females)

	Mendelian ratios (%)	Observed ratios (%)	Observed number
<i>Aldh2</i> -/- <i>Fancd2</i> +/- <i>p53</i> +/-	12.5	15.2	7
<i>Aldh2</i> -/- <i>Fancd2</i> +/- <i>p53</i> -/-	12.5	17.4	8
<i>Aldh2</i> -/- <i>Fancd2</i> +/- <i>p53</i> +/-	25.0	30.4	14
<i>Aldh2</i> -/- <i>Fancd2</i> +/- <i>p53</i> -/-	25.0	37.0	17
<i>Aldh2</i> -/- <i>Fancd2</i> -/- <i>p53</i> +/-	12.5	0	0
<i>Aldh2</i> -/- <i>Fancd2</i> -/- <i>p53</i> -/-	12.5	0	0

P = 0.0263 46