

Cowley_FigS1

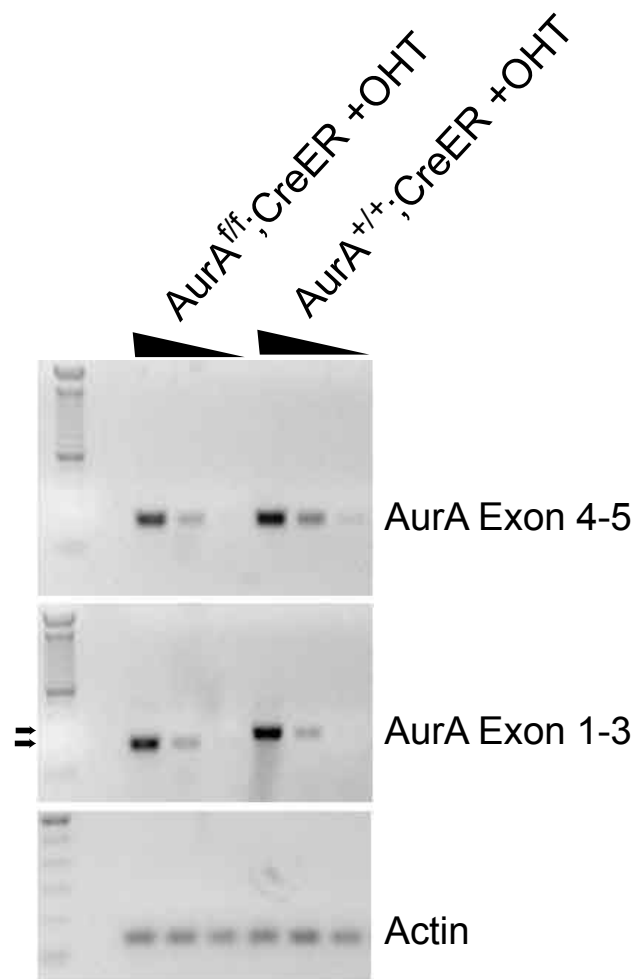


Fig. S1. RT-PCR analysis of AurA expression in MEFs. Primers amplify cDNA regions corresponding to AurA exons 4 and 5 (top), 1-3 (middle) and actin (loading control, bottom). Arrows denote smaller size of PCR product lacking exon 2 (AurA^{f/f};CreER +OHT sample). Black triangles indicate decreasing amounts of starting template going from left to right.

Cowley_Fig. S2

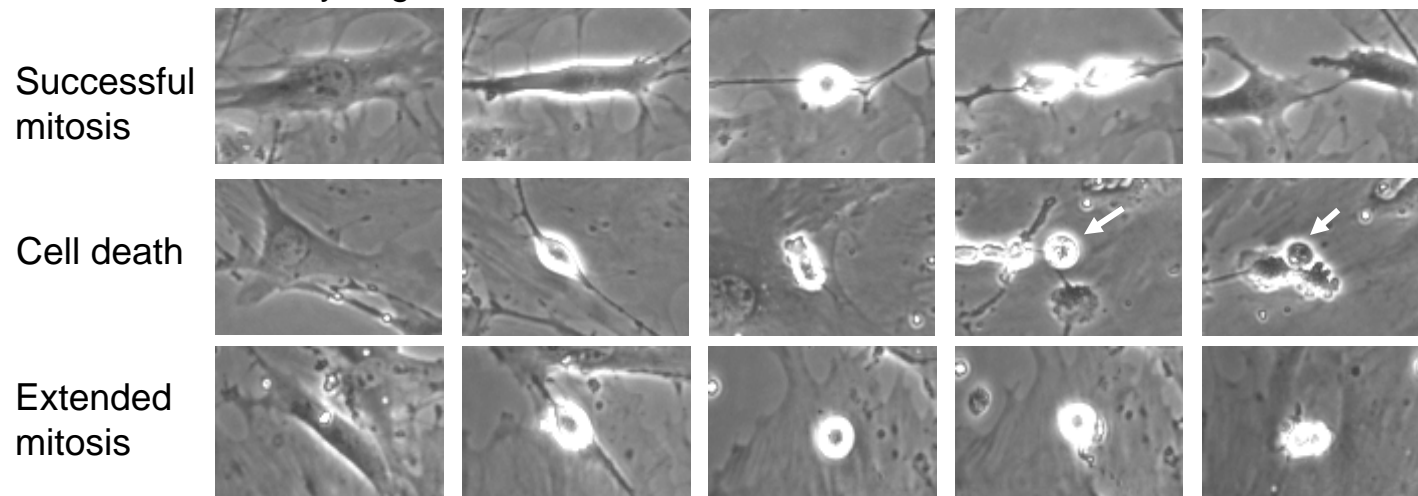


Fig. S2. Mitotic phenotypes observed in time-lapse imaging. Panels show time-lapse images of cells with each of the three phenotypes scored.

Cowley_Supplemental Table 1.

Genotyping primers for *AurA* mutant mice.

Allele	Primer 1		Primer 2		Product Size
	Name	Sequence	Name	Sequence	
<i>AurA</i> ^{neo}	Neo3	GCGATGCCTGCTTGCCGAATATCA	DCF2	CCACCACGAAGGCAGTGTTCAATCCTAAA	872
<i>AurA</i> ^{oz}	DCF5	CAGAGTCTAAGTCGAGATATCACCTGAGGGTTGA	DCE6	GATGGAAACCCTGAGCACCTGTGAAAC	273
<i>AurA</i> ^f	DCF1	CCTGTGAGTTGGAAAGGGACATGGCTG	DCF2	See above	594
<i>AurA</i> ⁺	DCF1	See above	DCF2	See above	467

All reactions were performed as follows: 94°C 2', 35 cycles of 94°C 15", 58°C 30", 72°C 50", 72°C 5'.

Cowley_Supplemental Table 2

Genotype	Cell #	Time (min)	Divided	Exited Without Dividing	Died	Did Not Exit	Genotype	Cell #	Time (min)	Divided	Exited Without Dividing	Died	Did Not Exit
+/+	1	30	X				F/F	1	90		X		
+/+	2	30	X				F/F	2	100		X		
+/+	3	30	X				F/F	3	110	X			
+/+	4	30	X				F/F	4	110	X			
+/+	5	30	X				F/F	5	110	X			
+/+	6	30	X				F/F	6	110	X			
+/+	7	30	X				F/F	7	110	X			
+/+	8	30	X				F/F	8	110		X		
+/+	9	30	X				F/F	9	110		X		
+/+	10	30	X				F/F	10	120		X		
+/+	11	30	X				F/F	11	120		X		
+/+	12	30	X				F/F	12	150		X		
+/+	13	30	X				F/F	13	180		X		
+/+	14	40	X				F/F	14	190		X		
+/+	15	40	X				F/F	15	200			X	
+/+	16	40	X				F/F	16	200		X		
+/+	17	40	X				F/F	17	220		X		
+/+	18	40	X				F/F	18	220		X		
+/+	19	40	X				F/F	19	270		X		
+/+	20	40	X				F/F	20	380			X	
+/+	21	40	X				F/F	21	400		X		
+/+	22	40	X				F/F	22	1090			X	
+/+	23	40	X				F/F	23	1330			X	
+/+	24	40	X				F/F	24	1590				X
+/+	25	40	X				F/F	25	1750				X
+/+	26	40	X				F/F	26	1760				X
+/+	27	40	X				F/F	27	2060		X		
+/+	28	50	X										
+/+	29	50	X										
+/+	30	50	X										
+/+	31	60	X										
+/+	32	60	X										
+/+	33	60	X										
+/+	34	80	X										
+/+	35	220	X										
+/+	36	2140				X							

Fates of OHT-treated MEFs tracked through time-lapse imaging. Only cells that entered mitosis and remained in the field of view throughout the course of the imaging are included. +/+ = *AurA*^{+/+}; *R26*^{CreER/+}; f/f = *AurA*^{f/f}; *R26*^{CreER/+}.