

Table S1 Strains used in this study

Gene	Allele	Nucleotide Change	Protein Change	How Generated	Reference
<i>arl13b</i>	<i>hi459Tg</i>	Proviral insertion in 5'-UTR	No protein product made	Proviral insertion	(Golling <i>et al.</i> 2002; Duldulao <i>et al.</i> 2009)
<i>cc2d2a</i>	<i>w38</i>	g1884a	W628X	ENU	(Owens <i>et al.</i> 2008)
<i>cc2d2a</i>	<i>w123</i>	t to g in 2 nd residue of intron 20	Frame shift after R876 caused by splicing error	ENU	
<i>cep290</i>	<i>fh378</i>	Deletion of c294 & c295	Frame shift after A99	TALEN	
<i>dync2h1</i>	<i>w46</i>	g1452a	W484Stop	ENU	
<i>ift88</i>	<i>tz288</i>	t779a	L260Stop	ENU	(Brand <i>et al.</i> 1996; Tsujikawa and Malicki 2004)
<i>mks1</i>	<i>w152</i>	25 bp insertion after a181	Frame shift after S61	CRISPR	
<i>traf3ip1</i>	<i>tp49d</i>	c583t	R195Stop	ENU	(Brand <i>et al.</i> 1996; Omori <i>et al.</i> 2008)
<i>wdr35</i>	<i>w150</i>	t2426a	L809Stop	ENU	

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