

Vertebrate Ciliary Mutants

Mutant name	Human ortholog	Species	Mutant type	Reference
<i>Alms1</i> ^{-/-}	ALMS1	<i>M. musculus</i>	gene trap	Collin et al., 2005
<i>hennin</i>	ARL13B	<i>M. musculus</i>	ENU	Caspary et al., 2007
<i>hi459/scorpion</i>	ARL13B	<i>D. rerio</i>	retrovirus insertion	Sun et al., 2004
<i>stumpy</i> ^{fl/fl}	B9D2	<i>M. musculus</i>	targeted conditional knock-out	Town et al., 2008
<i>Bbs1</i> ^{-/-}	BBS1	<i>M. musculus</i>	gene trap	Kulaga et al., 2004
<i>Bbs1</i> ^{M390R/M390R}	BBS1	<i>M. musculus</i>	targeted knock-in	Davis et al., 2007
<i>Bbs2</i> ^{-/-}	BBS2	<i>M. musculus</i>	targeted knock-out	Nishimura et al., 2004
<i>Bbs4</i> ^{-/-}	BBS4	<i>M. musculus</i>	gene trap, targeted knock-out	Kulaga et al., 2004
<i>Bbs6</i> ^{-/-}	BBS6	<i>M. musculus</i>	gene trap, targeted knock-out	Ross et al., 2005, Mykytyn et al., 2004
<i>bpk</i>	BICC1	<i>M. musculus</i>	spontaneous	Cogswell et al., 2003
<i>jcpk</i>	BICC1	<i>M. musculus</i>	chlorambucil mutagenesis	Cogswell et al., 2003
<i>waltzer</i>	CDH23/USH1D	<i>M. musculus</i>	spontaneous	Di Palma et al., 2001
<i>sputnik</i>	CDH23/USH1D	<i>D. rerio</i>	ENU	Sollner et al., 2004
<i>rd16</i>	CEP290/NPHP6	<i>M. musculus</i>	spontaneous	Chang et al., 2006
<i>rdAc</i>	CEP290/NPHP6	<i>C. felis</i>	spontaneous	Menotti-Raymond et al., 2007
<i>hi3959A/qilin</i>	CLUAP1	<i>D. rerio</i>	retrovirus insertion	Sun et al., 2004
<i>rd8</i>	CRB1	<i>M. musculus</i>	spontaneous	Mehalow et al., 2003
<i>oko meduzy</i>	CRB2	<i>D. rerio</i>	ENU	Omori et al., 2006
<i>Rootletin</i> ^{-/-}	CROCC	<i>M. musculus</i>	targeted knock-out	Yang et al., 2005
<i>cpk</i>	CYS1	<i>M. musculus</i>	spontaneous	Hou et al., 2002
<i>mikre oko</i>	DCTN1	<i>D. rerio</i>	ENU	Tsujikawa et al., 2007
<i>whirler</i>	DFNB31	<i>M. musculus</i>	spontaneous	Mburu et al., 2003
<i>Mdhc7</i> ^{-/-}	DNAH1	<i>M. musculus</i>	targeted knock-out	Neesen et al., 2001
<i>iv</i>	DNAHC11	<i>M. musculus</i>	spontaneous	Supp et al., 1997
<i>lgl</i>	DNAHC11	<i>M. musculus</i>	random insertion	Supp et al., 1997
<i>Dnahc5</i> ^{del593}	DNAHC5	<i>M. musculus</i>	ENU	Tan et al., 2007
<i>Mdnah5</i> ^{-/-}	DNAHC5	<i>M. musculus</i>	random insertion	Ibañez-Tallon et al., 2002
<i>ling-ling/Dnchc2</i>	DYNC2H1	<i>M. musculus</i>	ENU	Huangfu et al., 2005
<i>E2f4</i> ^{-/-}	E2F4	<i>M. musculus</i>	targeted knock-out	Danielian et al., 2007
<i>Evc</i> ^{-/-}	EVC	<i>M. musculus</i>	targeted knock-out	Ruiz-Perez et al., 2007
<i>Fat4</i> ^{-/-}	FAT4	<i>M. musculus</i>	targeted conditional knock-out	Saburi et al., 2008
<i>Hfh-4</i> ^{-/-}	FOXJ1	<i>M. musculus</i>	targeted knock-out	Chen et al., 1998
<i>Glis2</i> ^{lacZ/lacZ}	GLIS2/NPHP7	<i>M. musculus</i>	targeted knock-out	Attanasio et al., 2007

<i>Vlgr1</i> ^{del7TM/del7TM}	<i>GPR98</i>	<i>M. musculus</i>	targeted knock-out	McMillan et al., 2004
<i>Hsf1</i> ^{-/-}	<i>HSF1</i>	<i>M. musculus</i>	targeted knock-out	Takaki et al., 2007
<i>hy3</i>	<i>HYDIN</i>	<i>M. musculus</i>	spontaneous, random insertion	Robinson et al., 2003, Davy et al., 2003
<i>alien</i>	<i>IFT139/TTC21B</i>	<i>M. musculus</i>	ENU	Tran et al., 2008
<i>hi2211/moe</i>	<i>IFT172</i>	<i>D. rerio</i>	retrovirus insertion	Sun et al., 2004
<i>wimple</i>	<i>IFT172</i>	<i>M. musculus</i>	ENU	Huangfu et al., 2003
<i>hi3417/curly</i>	<i>IFT57</i>	<i>D. rerio</i>	retrovirus insertion	Sun et al., 2004
<i>Hippi</i> ^{-/-}	<i>IFT57</i>	<i>M. musculus</i>	targeted knock-out	Houde et al., 2006
<i>hi409/larry</i>	<i>IFT81</i>	<i>D. rerio</i>	retrovirus insertion	Sun et al., 2004
<i>oval</i>	<i>IFT88</i>	<i>D. rerio</i>	ENU	Tsujikawa et al., 2004
<i>flexo</i>	<i>IFT88</i>	<i>M. musculus</i>	ENU	Huangfu et al., 2003
<i>Tg737</i> ^{orp^k} / <i>polaris</i>	<i>IFT88</i>	<i>M. musculus</i>	random insertion	Moyer et al., 1994, Pazour et al., 2000
<i>lft88</i> ^{fl/fl}	<i>IFT88</i>	<i>M. musculus</i>	targeted conditional knock-out	Haycraft et al., 2007
<i>inv</i>	<i>INVS/NPHP2</i>	<i>M. musculus</i>	random insertion	Mochizuki et al., 1998
<i>Kif3a</i> ^{-/-}	<i>KIF3A</i>	<i>M. musculus</i>	targeted knock-out	Marszalek et al., 1999, Takeda et al., 1999
<i>Kif3b</i> ^{-/-}	<i>KIF3B</i>	<i>M. musculus</i>	targeted knock-out	Nonaka et al., 1998
<i>seahorse</i>	<i>LRRC6</i>	<i>D. rerio</i>	retrovirus insertion	Kishimoto et al., 2008
<i>hu255H</i>	<i>LRRC50</i>	<i>D. rerio</i>	ENU	van Rooijen et al., 2008
<i>swt</i>	<i>LRRC50</i>	<i>D. rerio</i>	ENU	Sullivan-Brown et al., 2007
<i>mindbomb</i>	<i>MIB1</i>	<i>D. rerio</i>	ENU	Ma et al., 2007, Liu et al., 2007
<i>wpk</i>	<i>MKS3</i>	<i>R. norvegicus</i>	spontaneous	Smith et al., 2006
<i>mariner</i>	<i>MYO7A</i>	<i>D. rerio</i>	ENU	Ernest et al., 2000
<i>shaker1</i>	<i>MYO7A</i>	<i>M. musculus</i>	spontaneous, ENU	Self et al., 1998
<i>kat</i>	<i>NEK1</i>	<i>M. musculus</i>	spontaneous	Upadhyaya et al., 2000
<i>jck</i>	<i>NEK8</i>	<i>M. musculus</i>	spontaneous	Liu et al., 2002
<i>Noto</i> ^{GFP/GFP}	<i>NOTO</i>	<i>M. musculus</i>	targeted knock-out	Beckers et al., 2007
<i>pcy</i>	<i>NPHP3</i>	<i>M. musculus</i>	spontaneous	Omran et al., 2001
<i>Nphp3</i> ^{-/-}	<i>NPHP3</i>	<i>M. musculus</i>	targeted knock-out	Bergmann et al., 2008
<i>Ofd1</i> ^{-/-}	<i>OFD1</i>	<i>M. musculus</i>	targeted knock-out	Ferrante et al., 2006
<i>Lis1</i> ^{-/-}	<i>PAFAH1B1</i>	<i>M. musculus</i>	targeted knock-out	Hirotsune et al., 1998
<i>Par3</i> ^{ΔE3}	<i>PAR3</i>	<i>M. musculus</i>	targeted knock-out	Fan et al., 2004, Hirose et al., 2006
<i>Ames waltzer</i>	<i>PCDH15</i>	<i>M. musculus</i>	spontaneous	Alagramam et al., 2001
<i>orbiter</i>	<i>PCDH15</i>	<i>M. musculus</i>	ENU	Seiler et al., 2005
<i>Pkd1</i> ^{-/-}	<i>PKD1</i>	<i>M. musculus</i>	targeted knock-out	Lu et al., 1997
<i>hi4166</i>	<i>PKD2</i>	<i>D. rerio</i>	retrovirus insertion	Sun et al., 2004
<i>cup</i>	<i>PKD2</i>	<i>D. rerio</i>	ENU	Schottenfeld et al., 2007

<i>Pkd2</i> ^{-/-}	PKD2	<i>M. musculus</i>	targeted knock-out	Wu et al., 1998
<i>pck</i>	PKHD1	<i>R. norvegicus</i>	spontaneous	Ward et al., 2002
<i>Pkhd1</i> ^{flox3-4/flox3-4}	PKHD1	<i>M. musculus</i>	targeted conditional knock-out	Garcia-Gonzalez et al., 2007
<i>Rfx3</i> ^{flox/flox}	RFX3	<i>M. musculus</i>	targeted conditional knock-out	Bonnafe et al., 2004
<i>Rpgr</i> ^{-/-}	RPGR	<i>M. musculus</i>	targeted knock-out	Hong et al., 2000
<i>Rpgrip1</i> ^{-/-}	RPGRIP1	<i>M. musculus</i>	targeted insertion	Zhao et al., 2003
<i>Ftm</i> ^{-/-}	RPGRIP1L	<i>M. musculus</i>	targeted knock-out	Vierkotten et al., 2007
<i>Spag16L</i> ^{-/-}	SPAG16	<i>M. musculus</i>	targeted knock-out	Zhang et al., 2006
<i>Spag6</i> ^{-/-}	SPAG6	<i>M. musculus</i>	targeted knock-out	Sapiro et al., 2002
<i>nm1054</i>	STEAP3	<i>M. musculus</i>	spontaneous	Lee et al., 2008
<i>Tektin-t</i> ^{-/-}	TEKT2	<i>M. musculus</i>	gene trap	Tanaka et al., 2004
<i>elipsa</i>	TRAF3IP1	<i>D. rerio</i>	ENU	Omori et al., 2008
<i>fleer</i>	TTC30B	<i>D. rerio</i>	ENU	Pathak et al., 2008
<i>deaf circler</i>	USH1C	<i>M. musculus</i>	spontaneous	Johnson et al., 2003
<i>Jackson shaker</i>	USH1G	<i>M. musculus</i>	spontaneous	Weil et al., 2003
<i>Ush2a</i> ^{-/-}	USH2A	<i>M. musculus</i>	targeted knock-out	Liu et al., 2007
<i>Ltap</i>	VANGL2	<i>M. musculus</i>	spontaneous	Ross et al., 2005
<i>strabismus/trilobite</i>	VANGL2	<i>D. rerio</i>	ENU	Ross et al., 2005

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