FIGURE S1

Kif3a (85 kDa)
Actin (42 kDa)
Ctrl         Cre Mutant

KIF3A (85 kDa)
Beta ACTIN (42 kDa)

Ctrl         Cre Mutant

Ctrl         Cre Mutant
Supplemental Figure 1  Total body size and weight as well as kidney alterations in mutant mice. (A) Representative growth retardation in a 3 week-old mutant mouse (right), as compared with age-matched control (left) and Cre (central) mice. (B) Total body weight of 3 week-old male (left panel) control (n=24), Cre (n=13) and mutant (n=16) mice and female (right panel) control (n=37), Cre (n=9) and mutant (n=13) mice. Means ± SEM are represented. (C) Means ± SEM of kidney weight of normal (n=6), Cre (n=4) and mutant (n=4) mice, expressed as the percentage of the corresponding body weight (BW). (D) Representative images of kidney isolated from 3 week-old control, Cre and mutant mice: the mutant kidney is pale and increased in size. (E) Hematoxylin/eosin-stained sections of kidney isolated from normal (left panel), Cre (central panel) and mutant (right panel) mice. The presence of kidney cysts is observed solely in mutant mice. Bars: 0.5 mm. (F) Kif3a mRNA quantification by qPCR performed on kidney cDNA from 3 week-old control, Cre and mutant mice. Means ± SEM of 4 independent experiments are represented. AU, arbitrary units. (G) Western blot analysis of kidney protein extracts from 3 week-old normal, Cre and mutant mice with a Kif3a antibody. Beta actin served as loading control. Statistics (Mann Whitney test): *P<0.05, **P<0.01, ***P<0.001.