



### Supplementary figure 1

Quantitative analysis (qRT-PCR) for Map1lc3b (an autophagy marker), Becn1, Atg5 and Sqstm1/p62 (early autophagosome markers) , and Lamp1 and Lamp2 (late autophagosome markers) in the kidney of 3 week old mice. The expression level of each gene was compared between AQP11(-/-) and wild type in the cortex and the medulla. The expression levels in the cortex of the wild type are arbitrarily normalized to one. The results are the mean +/- SE of three separate sets of experiments.