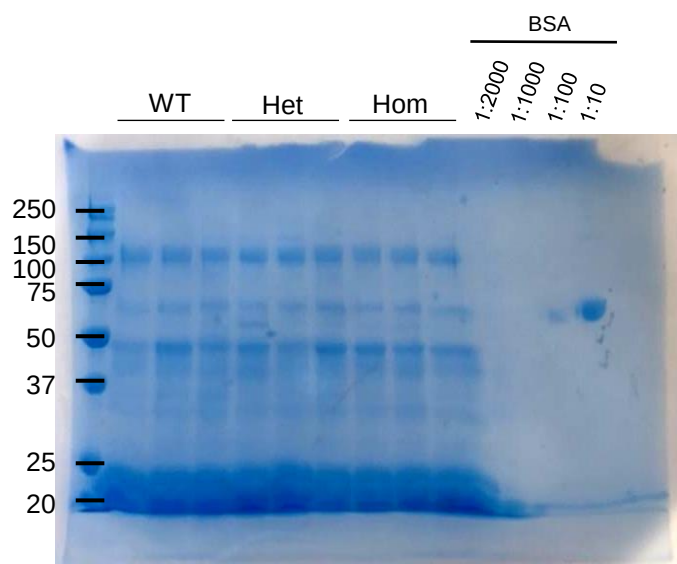
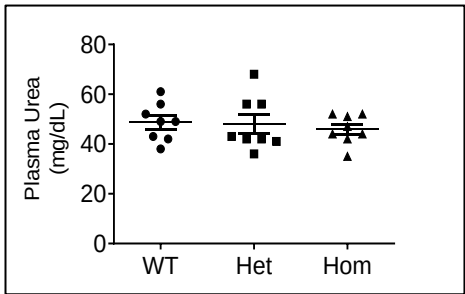


Supplementary Figure 1

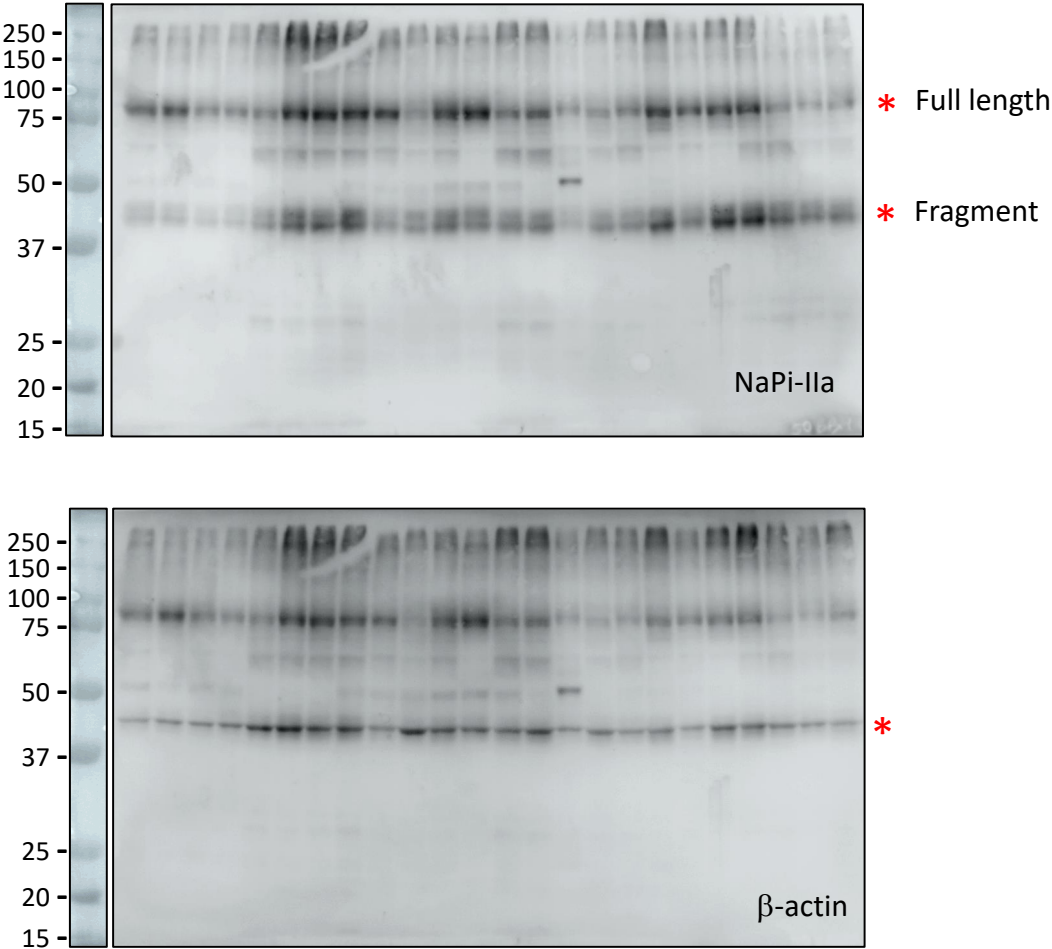
A) Urine coomasie blue



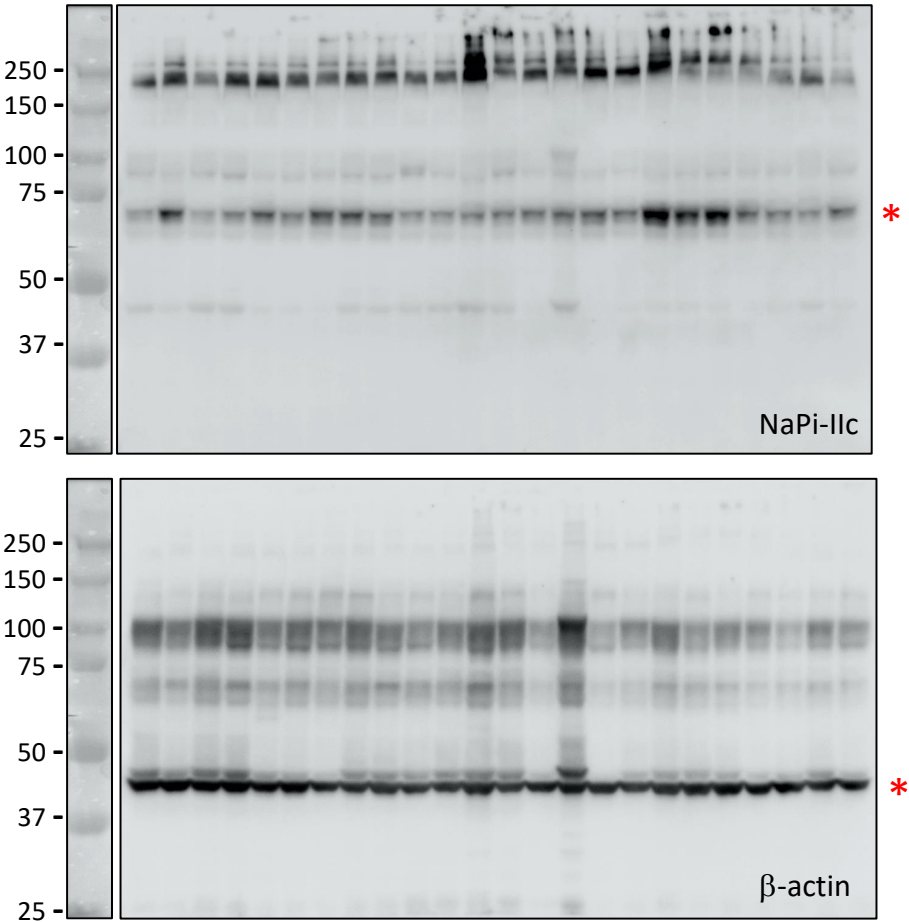
B) Plasma Urea



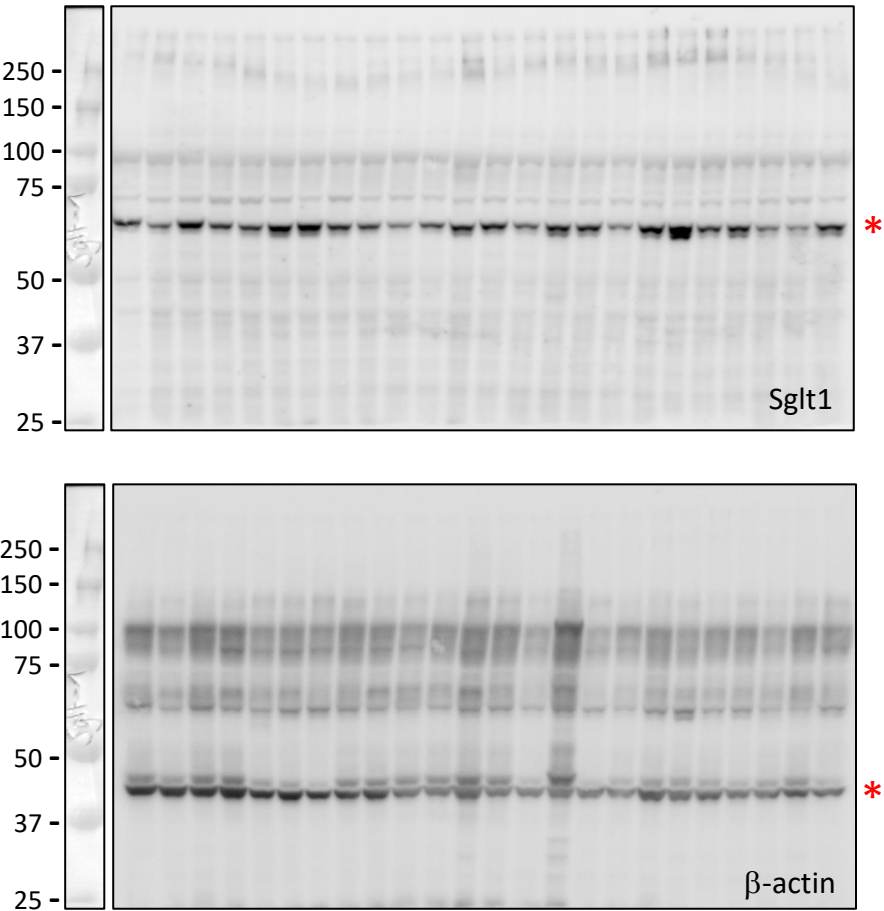
Supplementary Figure 2: full NaPi-IIa and β -actin Western blots shown in Figure 2A



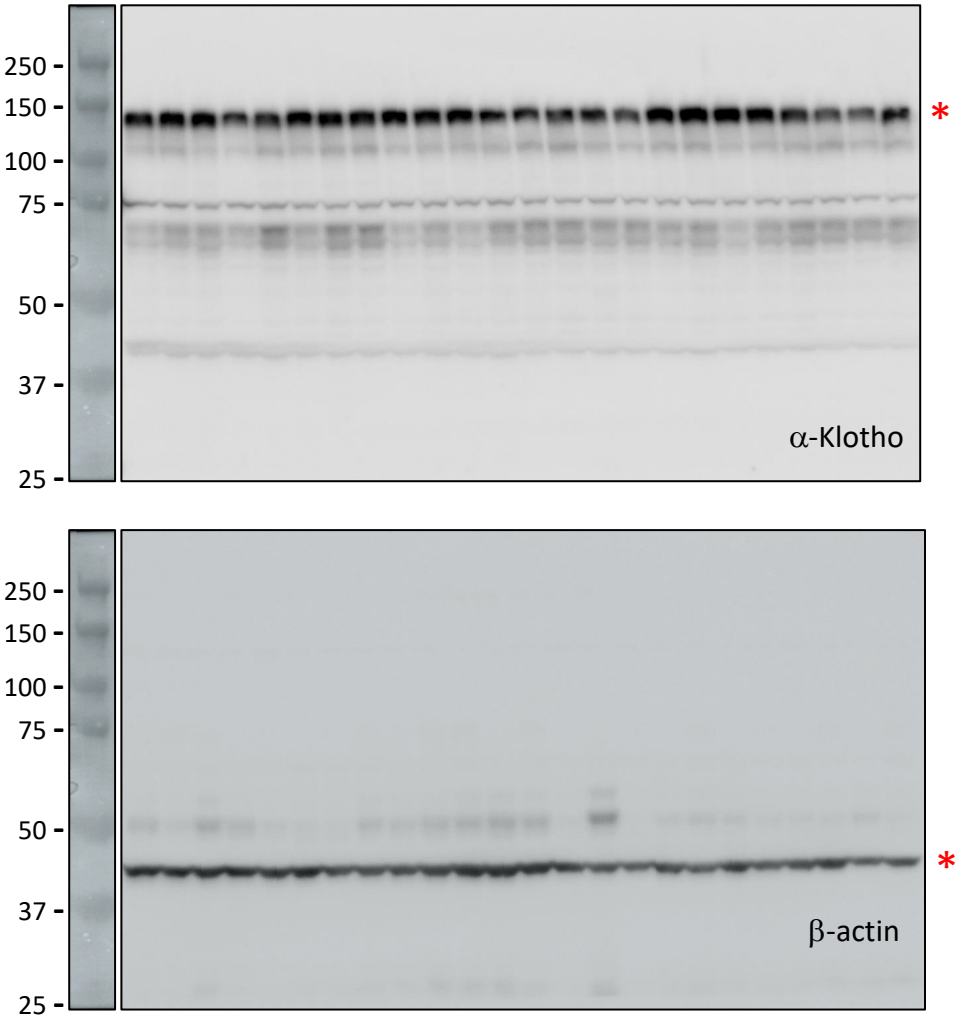
Supplementary Figure 3: full NaPi-IIc and β -actin Western blots shown in Figure 2B



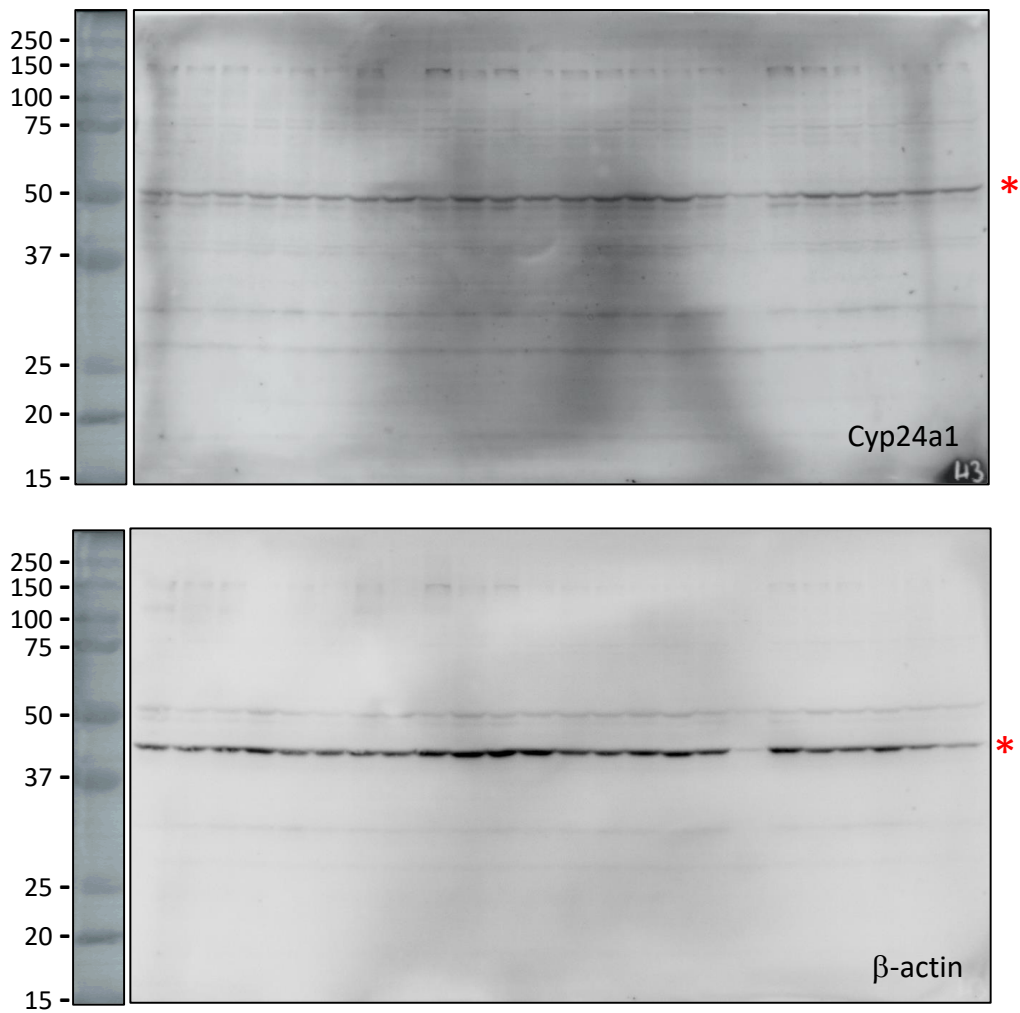
Supplementary Figure 4: full Sglt1 and β -actin Western blots shown in Figure 2C



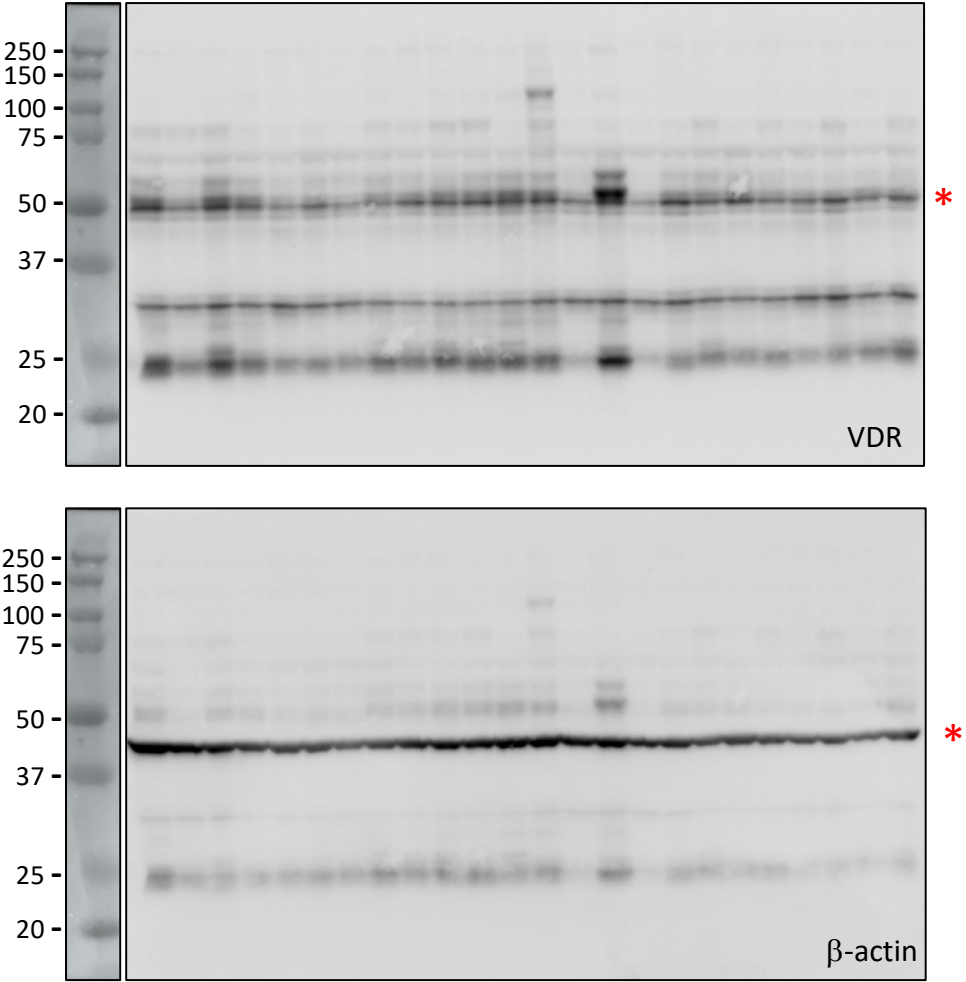
Supplementary Figure 5: full α -klotho and β -actin Western blots shown in Figure 3F



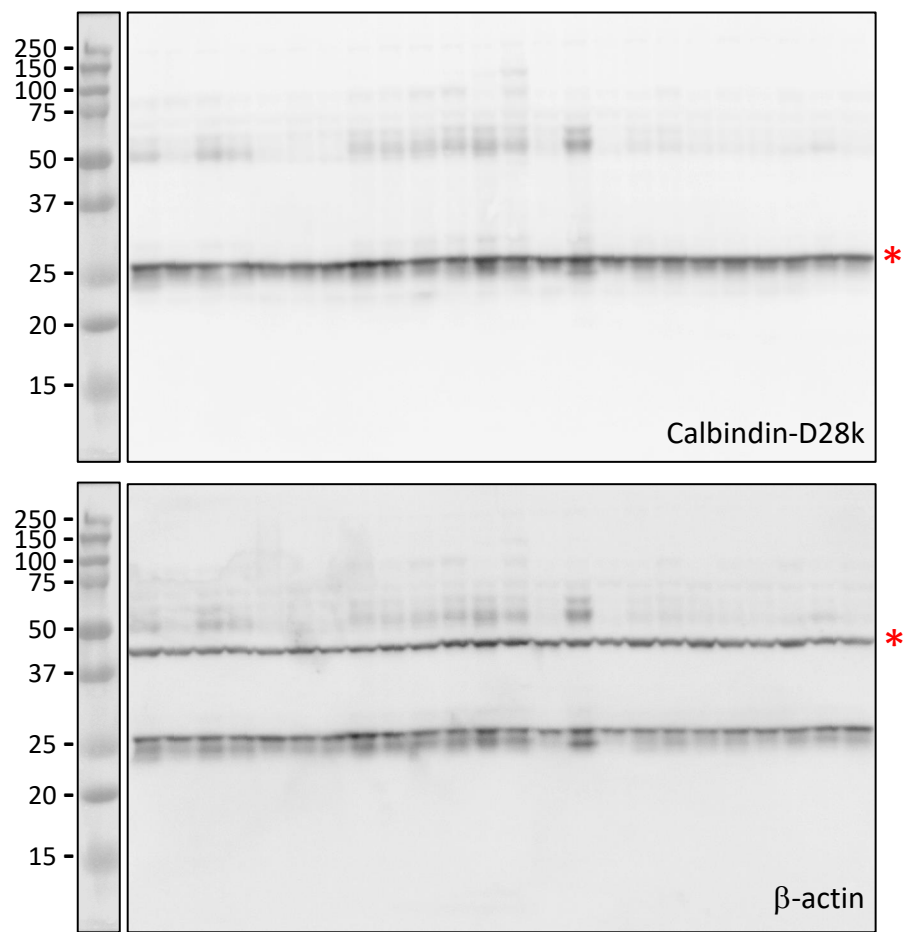
Supplementary Figure 6: full Cyp24a1 and β -actin Western blots shown in Figure 4C



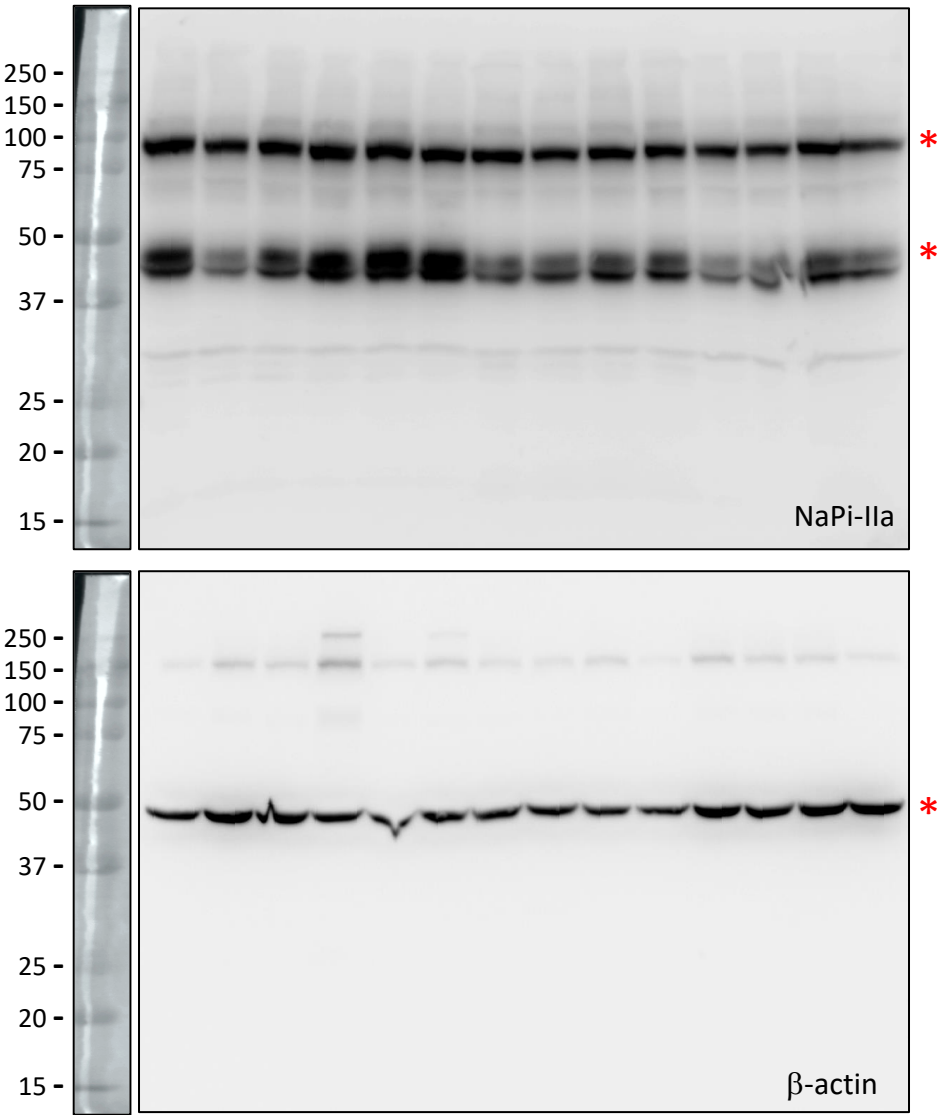
Supplementary Figure 7: full VDR and β -actin Western blots shown in Figure 4D



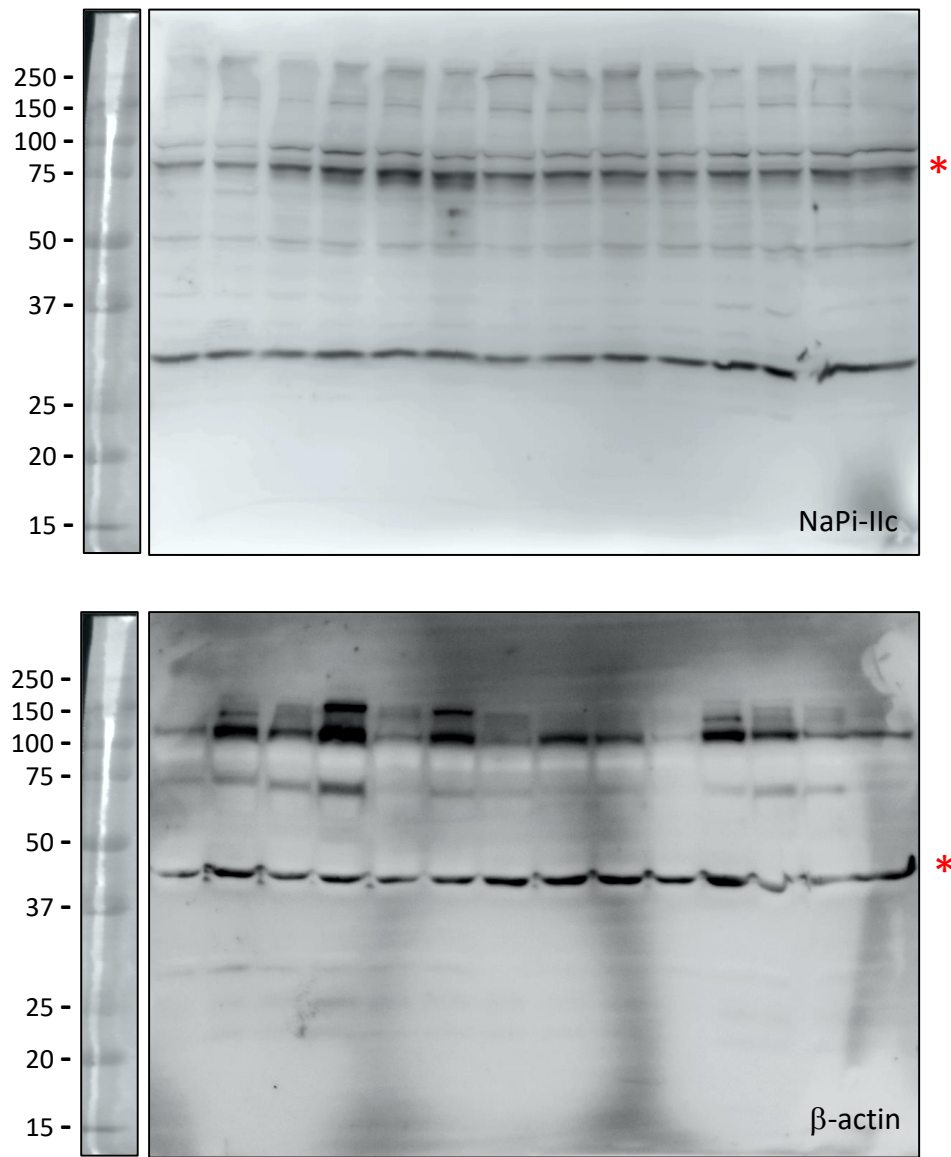
Supplementary Figure 8: full calbindin-D28k and β -actin Western blots shown in Figure 5C



Supplementary Figure 9: full NaPi-IIa, NaPi-IIc and β -actin Western blots shown in Figure 6F



Supplementary Figure 9: full NaPi-IIc and β -actin Western blots shown in Figure 6G



Supplementary table 1: sequences of primers and probes

Gene	Primer (5'-3')	Probe (5'-3')
18s RNA	Eukaryotic 18S rRNA Endogenous Control (4310893E, Applied Biosystems™, Thermo Fisher Scientific)	
FGF23	Forward: TCA GAC CAT CTA CAG TGC CCT Reverse: GGA ACC TTC GAG TCA TGG CT	AGA GGA CGC CGG CTC TGT GGT GAT A
Galnt3	Forward: GAG AAA GAG CGA GGG GAA AC Reverse: GTG GAC CAT GCT TCA TTG TG	ACA CCC GAC CAC CTG AAT GTA TTG AAC
Nurr-1	Forward: CAT CGA CAT TTC TGC CTT CTC Reverse: CTT CCA CTC TCT TGG GTT CCT	TGC CCT GGC TAT GGT CAC AGA GAG A
Cyp27b1	Mm01165912_g1 (Applied Biosystems™, Thermo Fisher Scientific)	

Supplementary table 2: Primary and secondary antibodies used for western blot

Primary antibodies	Species	Dilution	Expected size (Kda)	Reference/Company
Anti-NaPi-IIa	Rabbit	1:2000	75-100	[(Biber, Stieger et al. 2007)]
Anti-NaPi-IIc	Rabbit	1:2000	75-100	[(Nowik, Picard et al. 2008)]
Anti-Sglt-1	Rabbit	1:1000	73	Abnova
Anti-Cyp24a1	Rabbit	1:1000	54-59	Protein Tech
Anti-VDR	Mouse	1:1000	48-60	Santa Cruz
Anti-calbindin-D28K	Mouse	1:1000	28	Swant
Anti- α -klotho	Rat	1:1000	130	TransGenic Inc.
Anti- β -actin	Mouse	1:5000	42	Sigma-Aldrich
Secondary antibodies		Dilution		Company
Anti-mouse (AP)		1:5000		Promega
Anti-rabbit (AP)		1:5000		Promega
Anti-rat (HRP)		1:5000		R&D systems