Supplemental Figure 1

Table One

Encoded Molecule	Transcript symbol	NCBI RefSeq
Growth factors, transcription factors and adhesion molecules expressed in normal metanephroi		
Actin, α2, smooth muscle, aorta	*Acta2*	NM_007392
Amphiregulin (Areg)	*Areg*	NM_009704
Angiotensin II receptor, type 1a	*Agtr1a*	NM_177322
Angiotensin II receptor, type 1b	*Agtr1b*	NM_175086
Angiotensin II receptor, type 2	*Agtr2*	NM_007429
B-cell leukemia/lymphoma 2, transcript variant 1	*Bcl2*	NM_009741
Bone morphogenetic protein 4	*Bmp4*	NM_007554
Bone morphogenetic protein 7	*Bmp7*	NM_007557
Catenin (cadherin associated protein), β1	*Ctnnb1*	NM_007614
Epidermal growth factor	*Egf*	NM_010113
Epidermal growth factor receptor (Egfr), complete cds	*Egfr*	AF_275367
Eyes absent 1 homolog (Drosophila)	*Eya1*	NM_010164
Fibroblast growth factor 2	*Fgf2*	NM_008006
Fibroblast growth factor 7	*Fgf7*	NM_008008
Forkhead box D1	*Foxd1*	NM_008242
Fraser syndrome 1 homolog (human)	*Fras1*	NM_175473
Fras1 related extracellular matrix protein 1	*Frem1*	NM_177863
Fras1 related extracellular matrix protein 2	*Frem2*	NM_172862
Fras1 related extracellular matrix protein 3	*Frem3*	XM_984073
Glial cell line derived neurotrophic factor	*Gdnf*	NM_010275
Glutamate receptor interacting protein 1	*Grip1*	NM_133442
Growth differentiation factor 11	*Gdf11*	NM_010272
Hepatocyte growth factor	*Hgf*	NM_010427
Homeo box A11	*Hoxa11*	NM_010450
Homeo box D11	*Hoxd11*	NM_008273
Indian hedgehog	*Ihh*	NM_010544
Integrin alpha 8	*Itga8*	NM_001001309
Met proto-oncogene	*Met*	NM_008591
Mouse mRNA for retinoic acid receptor, γ	*Rarg*	X15848
Murine mRNA for leukaemia inhibitory factor (LIF)	*Lif*	X06381
Nestin	*Nes*	NM_016701
Paired box gene 2	*Pax2*	NM_011037
Paired box gene 8	*Pax8*	NM_011040
Patched homolog 1	*Ptch1*	NM_008957

Ret proto-oncogene, complete cds	*Ret*	AF209436
Retinoic acid receptor, alpha	*Rara*	NM_009024
Retinoic acid receptor, β	*Rarb*	NM_011243
Sal-like 1 (Drosophila)	*Sall1*	NM_021390
Sine oculis-related homeobox 1 homolog (Drosophila)	*Six1*	NM_009189
Sine oculis-related homeobox 2 homolog (Drosophila)	*Six2*	NM_011380
Sonic hedgehog	*Shh*	NM_009170
Snail homolog 1 (Drosophila)	*Snai1*	NM_011427
Snail homolog 2 (Drosophila)	*Snai2*	NM_011415
T-box 1 (Tbx1)	*Tbx1*	NM_011532
T-box18	*Tbx18*	NM_023814
Teashirt zinc finger family member 1	*Tshz1*	NM_001081300
Teashirt zinc finger family member 2	*Tshz2*	NM_080455
Teashirt zinc finger family member 3	*Tshz3*	NM_172298
Transforming growth factor-α	*Tgfa*	NM_031199
Transforming growth factor-β1	*Tgfb1*	NM_011577
Wilms tumor homolog	*Wt1*	NM_144783
Wingless-related MMTV integration site 4	*Wnt4*	NM_009523
Wingless-related MMTV integration site 11	*Wnt11*	NM_009519
Molecules, often located in primary cilia, which prevent cyst formation		
Bardet-Biedl syndrome 1 homolog (human)	*Bbs1*	NM_001033128
Bardet-Biedl syndrome 4 homolog (human)	*Bbs4*	NM_175325
Cystin 1, transcript variant 1	*Cys1*	NM_138686
Intraflagellar transport 88 homolog (Chlamydomonas) (polaris)	*Ift88*	NM_009376
Inversin	*Invs*	NM_010569
Lectin, galactose binding, soluble 3	*Lgals3*	NM_010705
Meckel syndrome, type 1	*Mks1*	NM_001039684
Oral-facial-digital syndrome 1 gene homolog (human)	*Ofd1*	NM_177429
Polycystic kidney disease 1 homolog	*Pkd1*	NM_013630
Polycystic kidney disease 2	*Pkd2*	NM_008861
Polycystic kidney and hepatic disease 1	*Pkhd1*	NM_153179
Transcription factor 2	*Tcf2*	NM_009330
Transmembrane protein 67 (Meckel Syndrome Type 3)	*Tmem67*	NM_177861
Segment-specific markers of renal tubules and sodium-potassium ATPase subunits		
Aquaporin 2	*Aqp2*	NM_009699
Bcl2-associated X protein	*Bax*	NM_007527
Gamma-glutamyltransferase 1	*Ggt1*	NM_008116
Mus musculus ATPase, Na+/K+ transporting, alpha 1 polypeptide	*Atp1a1*	NM_144900
Mus musculus ATPase, Na+/K+ transporting, beta 1 polypeptide	*Atp1b1*	NM_009721

Nephrosis 1 homolog, nephrin (human)	*Nphs1*	NM_019459
Nuclear receptor subfamily 3, group C, member 1 (GR)	*Nr3c1*	NM_008173
Nuclear receptor subfamily 3, group C, member 2 (MR)	*Nr3c2*	NM_001083906
Uromodulin	*Umod*	NM_009470
Transcripts previously found to be degregulated in metanephroi after exposure to maternal low protein diet		
Cadherin 11	*Cdh11*	NM_009866
Calmodulin 1	*Calm1*	NM_009790
Cofilin 1, non-muscle	*Cfl1*	NM_007687
Eukaryotic translation initiation factor 4, γ2	*Eif4g2*	NM_013507
Kinectin 1	*Ktn1*	NM_008477
Lactate dehydrogenase A	*Ldha*	NM_010699
Nucleosome assembly protein 1-like 1	*Nap1l1*	NM_015781
Prospero-related homeobox 1	*Prox1*	NM_008937
SMT3 suppressor of mif two 3 homolog 2 (yeast)	*Sumo2*	NM_133354
Topoisomerase (DNA) II beta binding protein	*Topbp1*	NM_176979
Tubulin, α1A	*Tuba1a*	NM_011653
Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide	*Ywhaq*	NM_011739

Table Two

Encoded Molecule	Transcript Symbol	NCBI RefSeq	*P* Value	Relative Change
Fibroblast growth factor 7	Fgf7	NM_008008	0.0829	1.035
Sonic hedgehog	Shh	NM_009170	0.2553	0.993
Intraflagellar transport 88	Ift88	NM_009376 1	0.7997	0.84
Patched homolog 1	Ptch1	NM_008957	0.7704	0.849