

Table S2. Primers and related information for quantitative real-time PCR.

| Gene symbol | 5'-Forward primer-3' | 5'-Reverse primer-3' | Amplicon size (bp) | Contig | Description |
|---------------------------------|------------------------|-------------------------|--------------------|--------|--|
| <i>aifm3</i> | CGCTTCCTGCCAATAAGTCT | AGAGGAGAGAACGGGAAGGT | 118 | 39602 | apoptosis-inducing factor 3 |
| <i>angptl7</i> | ACAAGCTCTTCCTTGCCAAC | TGCACAGTCGTCCAACATT | 116 | 28748 | angiopoietin-related protein 7 |
| <i>aqp1</i> | AGGGTTCAAGTGTGCTCCAC | GGAATAGGTCTGGGCAATGA | 129 | 66976 | aquaporin-1 |
| <i>aqp3</i> (FW isoform) | GTTGCTCCGTCCTGGAAGT | TATGCCAGCCGTGTTGTTAG | 55 | 17845 | aquaporin-3 |
| <i>aqp3</i> (SW isoform) | GAACCCATCTCACCTTGTC | GGCCAGAATGCAAACATATCAG | 77 | 17847 | aquaporin-3 |
| <i>arhgap15</i> | CGCAGACAAGAATGGAGTGA | TTCACGCTCACAGAGACTCG | 136 | 28188 | rho GTPase-activating protein 15 |
| <i>atp2b3/pmca3</i> | GCACGAGCAGTGTGATGTT | TCAACGAACTGACCTGCATC | 139 | 14959 | plasma membrane calcium-transporting ATPase 3 |
| <i>atpsyn beta</i> (FW isoform) | TCAAGATGTGCTGCTCTTCG | TGGTGATACGCTCCTGCATA | 149 | 79615 | ATP synthase subunit beta, mitochondrial-like |
| <i>atpsyn beta</i> (SW isoform) | TGCGGGAAGTTGAATCTAGG | ATGTGCCTGCTGATGACTTG | 138 | 1606 | ATP synthase subunit beta, mitochondrial-like |
| <i>casp6</i> | TTTGGCTTTCCAACAAGGTC | CGGAGGCAGATCACTCAGAT | 157 | 24696 | caspase-6 |
| <i>ccnb1</i> | ATAATGGGCTGACCAAGCAC | TTGCCAGGTCCTAACCACT | 111 | 23792 | G2/mitotic-specific cyclin-B1 |
| <i>cdc45 variant 1</i> | TTGAACACAAAGAGCAGTTTCG | CACAGATGAAGAAGATGGAGTCA | 108 | 27952 | cell division control protein 45 homolog, transcript variant 1 |
| <i>cenpf</i> | GGTGACGGTGCTAGAGAAGG | CTCCAGTCCAGCAGAGCTT | 109 | 29207 | centromere protein F, 350/400kDa (mitosin) |
| <i>cfr</i> | GGTGCCACAGAAAGTCTTCA | CTTGTCTGGGAACTGCTCAA | 139 | 100895 | cystic fibrosis transmembrane conductance regulator |
| <i>clcc1</i> | GCTCATCCTCAGCAGTTCCT | CTCAACAGCAACATGCCCTA | 120 | 50805 | chloride channel CLIC-like protein 1 |
| <i>clcn2/clc-2</i> | GTTATTGCTGGGTGGGTTTG | TGATCCTGTTGGGTTCCATT | 149 | 30 | chloride channel protein 2 |
| <i>cldn8</i> | GAGGCTGTAGTGGCTGTTGAG | GGCTTTCTGTTTGCTGGAG | 131 | 19316 | claudin-8 |
| <i>clic4</i> | ACTGGGCGACAGAATGGTAG | GTACCGTGACTTTGCCATCC | 137 | 2581 | chloride intracellular channel protein 4 |
| <i>cox3</i> | AAGCCGGTTGCTACAAAGAA | ATCCCTTGCCCTAACCATTC | 126 | 79 | cytochrome c oxidase subunit III (mitochondrion)[Hs. homolog] |

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| <i>ercc6</i> | CCTCTGTCGGAGAAGCACTC | CTCCATCTCGGAGTCATCGT | 122 | 48759 | DNA excision repair protein ERCC-6 |
| <i>foxi2</i> | TGAGTGGAAGAGCTGTGCTG | CGAGGATGACCCAGGTAAAG | 137 | 51168 | forkhead box protein I2 |
| <i>gas2</i> | GACATATCGCCAATGATCCA | TGTGCAGCATCCGAATAAAG | 114 | 58776 | growth arrest-specific protein 2 |
| <i>gc-1</i> | CCACGCCACTGTAGGTTTCT | ACCCATCCGTCCCTTTCTAT | 147 | 10608 | mitochondrial glutamate carrier 1 |
| <i>ghr2</i> | CTGAGGAACAGACCGAGAGG | TCTGCATTTCATCACGAGGAG | 106 | 51528 | growth hormone receptor II |
| <i>gpr64</i> | GAAACAGCCACCCAGTTCAT | ACCACAAAGCAGCCAACAG | 106 | 21162 | G protein-coupled receptor 64 [Hs. homolog] |
| <i>gspt2</i> | TCTCTGATGACGTGGAGACG | CAGGTTCTCGGCATTACACA | 119 | 7827 | G1 to S phase transition 2 |
| <i>hmx3a</i> | GTTGTTGTTGTGCTCGTCGT | GAGCCAGAGACTCCTCTCCA | 113 | 17416 | homeobox protein HMX3-A |
| <i>map3k15</i> | GCAGGAGAAACATGCCAGAT | CGGTTTCCAGTGCTGATTCT | 110 | 26425 | mitogen-activated protein kinase kinase kinase 15 |
| <i>msh2</i> | AATGACGCCTTCACCAGGTA | TGAATGCAGTGTTCTCTCG | 127 | 1800 | DNA mismatch repair protein Msh2 |
| <i>ncc</i> | CACAAAATACCACCCTCGTG | CACAAGCACTACAGGGCAGT | 122 | 11563 | Na-Cl cotransporter (NCC) |
| <i>nd1</i> | AAGGGCTCCTGCATATTCT | ACTAATCCTTCCCGCCTGAC | 140 | 4520 | NADH dehydrogenase subunit 1 (mitochondrion)[Hs. homolog] |
| <i>nkaa1</i> (FW isoform) | TCCTGGCTGAACAGAACAAA | AACAGATCCACAGCACAGCTC | 104 | 2955 | sodium/potassium-transporting ATPase subunit alpha-1 |
| <i>nkaa1</i> (SW isoform) | CATGCTGCTGTGGATTGGTGCC | CCGGTGATGATGACGACAGCAGA | 129 | 4958 | sodium/potassium-transporting ATPase subunit alpha-1 |
| <i>nkaa3</i> | GGCCGCATTGCTACTCTGACG | ACGCCAAGAAGACAGCCACT | 110 | 3864 | Sodium/potassium-transporting ATPase subunit alpha-3 |
| <i>nkcc1a</i> | GGCCACCAGCCTCCAGAACA | TCAGAGGGACTGTGGGCTCT | 113 | 12232 | Na-K-Cl cotransporter (NKCC1alpha) |
| <i>rad54l</i> | CCAGGATCTTATGGCTGCAT | GTATCAGGGCTTTGGCGTAG | 101 | 101281 | DNA repair and recombination protein RAD54-like |
| <i>rhgb</i> | AGTGACGGCTCCCACAATAG | TCGGTTTCTTGGCTGGTATC | 149 | 2262 | ammonium transporter Rh type B |
| <i>rock2</i> | GAACGTCTTCAAGCCTCCAC | CAGGAGGAGCAGTTCTTTGG | 142 | 15583 | rho-associated protein kinase 2 |
| <i>slc12a6</i> | CGATTGCGCTCATTGATATG | ATCTTGTTCTGCGGTTGAC | 118 | 39140 | solute carrier family 12 member 6 |
| <i>slc14a2/ut2</i> | ACCTGAAACCATTCCCACTG | GCTGTGACAACCCTTGACT | 110 | 1291 | urea transporter 2 |
| <i>slc20a1b</i> | GTATGGTGGCGTGGGTATCT | AGGCCAGTTCGATGCTAAAA | 119 | 2828 | sodium-dependent phosphate transporter 1-B |

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| <i>slc27a4/fatp4</i> | CTCTGTTCCCTGTGGGACTC | CCAAGGCTGTGATCTTTGGT | 128 | 34423 | long-chain fatty acid transport protein 4 |
| <i>slc30a5/znt5</i> | CACGGTCTCCAGGAAGTTGT | AGGACCACGACTCCACTTTG | 143 | 22625 | zinc transporter 5 |
| <i>slc30a9/znt9</i> | GTGTAGACCCAAGCCAGGAG | CAGGCCAGAGGACAACATTT | 106 | 17008 | zinc transporter 9 |
| <i>slc9a2/nhe2</i> | TTAGGGGCAGCATGTAGAGG | TCAGCATTGGCCTGATAGTG | 102 | 68440 | sodium/hydrogen exchanger 2 |
| <i>slc9a3/nhe3</i> | TCTGTACGTGGCTCTCATGG | CAGCAGGAGAAGATCCCAAA | 147 | 6578 | sodium/hydrogen exchanger 3 |
| <i>vdac2</i> | GACCAGACCAGAAAGGGTCA | CAGCACACGCTTTGGTATTG | 145 | 6738 | voltage-dependent anion-selective channel protein 2 |