

S1 Table. Sequences of oligonucleotides used in this study

S1A Table. Sequences of guide RNA and DNA repair templates

Target	Guide RNA sequence (5'-3')	DNA repair template sequence (5'-3')
<i>Nphs2</i>	UUUCCAGGAGAAUUUCAGUG	CTTCTTCTAAGCAGTCTAGCCCATGTGTCCAAAGCCATCCAGT TCCTGGTGCAAACCACCATGAAGCGCCTCTTGGCACATCGGT CTCTCATTGAAATTCTCCTGGAAAGGAAGAGCATTGCCCAAG A
<i>Atp1a1</i>	CAUCCGAAGUGCUACAGAAG	TCTGGGAGGCAACAGCGCTACCGTAACACTACACAACACTCACATC ATCGTTTGGCGGTTCTCCAGATCCTTCTGAGATGAGTTTT TGTTCTGTAGCACTTCGGATGCCATAAGCCAGGAAACAAAGA ATGGCCCCGATCCACAGTAA
<i>Lyn</i>	CAGACAUGGUGCCGGGCUUG	TTTAGGAGGTGCAGTGCTTGAGTTCTCTGCTTTCTTTGTCTG CCCAGGTTACTATAACAACAGCACAAAGGTGGCTGTGAGGAC ACTTAAGCCCCGGCACCATGTCTGTGCAGGCATTCTCTGGAAGA
<i>Gt(ROSA)</i> <i>26Sor</i>	ACUCCAGUCUUUCUAGAAGA	SA-Venus targeting vector

S1B Table. PCR and sequencing primer and thermocycling conditions

	Primer sequence (5'-3')	Conditions	PCR rounds
<i>Atp1a1</i> [nested]	fwd: GGTCTTAGGGCATTACGGGCT rev: GACGACGACATCCTCCGCAT	98°C 3min; 34 cycles of [95°C-20s; 59°C-20s; 72°C-30s]; 72°C-3 min	1 st
<i>Atp1a1</i> [WT]	fwd: CCTCCCACTACTCCCGAAT rev: TCTCCTAGGTGAGTCGATTTCT	98°C 3min; 30 cycles of [95°C-20s; 55°C-20s; 72°C-20s]; 72°C-3 min	2 nd
<i>Atp1a1</i> [myc]	fwd: CCTCCCACTACTCCCGAAT rev: CCTCCAGATCCTTCTGAGAT	98°C 3min; 30 cycles of [95°C-20s; 55°C-20s; 72°C-20s]; 72°C-3 min	2 nd
<i>Nphs2</i>	fwd: AGACGCTGTCTGCTACTACCGC rev: TCCCCAGGCCAATGATGTCAC	98°C 3min; 34 cycles of [95°C-20s; 67.5°C-20s; 72°C-20s]; 72°C-3 min	2
<i>Gt(ROSA)</i> <i>26Sor</i> [nested]	fwd: CTCGGCTAGGTAGGGGATCG rev: GCATTCCAAAAGGAACCACTT	98°C 3min; 38 cycles of [95°C-20s; 61.5°C-20s; 72°C-90s]; 72°C-3 min	1 st
<i>Gt(ROSA)</i> <i>26Sor</i> [WT]	fwd: GCCTCCTGGCTTCTGAGGACCG rev: TCTGTGGGAAGTCTTGCCCTCC	98°C 3min; 38 cycles of [95°C-20s; 66.5°C-20s; 72°C-20s]; 72°C-3 min	2 nd
<i>Gt(ROSA)</i> <i>26Sor</i> [transgene]	fwd: GGCTCTCGAGCCTCTAGAACTATAGTG rev: CAAGCTCACAAAGACCTTAGGTCAGGA	98°C 3min; 38 cycles of [95°C-20s; 62°C-20s; 72°C-45s]; 72°C-3 min	1
<i>Lyn</i>	fwd: GCAGTGGACAATCTCCCAAGAC rev: TCTCAGCACACTCTAATCCGA	98°C 3min; 34 cycles of [95°C-20s; 64.5°C-20s; 72°C-45s]; 72°C-3 min	1
<i>Nphs2</i>	fwd: AGACGCTGTCTGCTACTACCGC	Sanger sequencing	N.A.
<i>Lyn</i>	fwd: CTCCTTAGGGGTACAGACT	Sanger sequencing	N.A.