

**Table S2. Sequences of genomic sequencing primers, 5'-RACE primers, siRNAs and quantitative RCR primers**

**Genomic DNA primer sequences**

<b>Gene</b>	<b>Exon</b>	<b>primer</b>	<b>sequence</b>	<b>Product size [bp]</b>
LRP4	E1	forward	GCTCTGGCAGCACTGGAG	586
		reverse	TCTTCGCACGCATTCATTC	
	E2	forward	GTGACTCTCCAGGTGACAGTG	389
		reverse	CAAGCTTGCAAAAGACCAAC	
	E3	forward	CTGGCCTAGTTGAGCCTGAG	237
		reverse	CCTTTCCCAGTGGA ACTCAA	
	E4	forward	GCTTCCAGGCACCAGACC	250
		reverse	GGCCATTGCTGCTATCTTCT	
	E5	forward	GGAGTCAGAGAGGAGGGTGA	239
		reverse	ACTGTCTGCCCTCATCCAAC	
	E6-7	forward	ATCCAGGCCTGAGTGTGTG	578
		reverse	GCTCCACAAGCCTTCTCCTT	
	E8	forward	GTGGCAGGGAGAATTCAGG	245
		reverse	CACCCTTCCACCCCAACTAT	
	E9-10	forward	GAAAATGACAGGCTCCCATC	595
		reverse	GAAACACAGCTGCCTGTCTG	
	E11	forward	GAGTGGGAGGACGACAGAAG	240
		reverse	AGTACCTGGCCTTCCTCCAT	
	E12	forward	GACCTGCTGATGGGTACCAG	400
		reverse	GTCCTGCTGCCTAAGGTTTG	

E13	forward	TTGCTTCCTGTAAGAGTTTGCTC	298
	reverse	GAGCTGTCCCGAGAGGTTG	
E14-15	forward	TGTTTTCTGCTGCCCACTTC	670
	reverse	AGGAAGGTTCTCAGAGGCAC	
E16	forward	CACTTTTGCAGACCTTCGCT	237
	reverse	CCCTTGTTCCCTTCTCCCAT	
E17-18	forward	GTGAGCGTCTGTGTCTGTCA	594
	reverse	GCTCCTTCTATCTGAGGCCA	
E19	forward	GCCATGGAAGGTAAGAGGGT	223
	reverse	CTCAGATCTTGGGAGGGGTG	
E20	forward	AACTAGCTTGTAAGACCTGCC	299
	reverse	AGGCTGTGGGAAGATGTTTT	
E21-22	forward	GAGCTCTTTGCCACTGCTCT	591
	reverse	AGCAGCAGGACTCATGGTTT	
E23	forward	TTAATGGCTGTGCTCGAGTG	235
	reverse	AAGGGCAGGGACAGAAGG	
E24-25	forward	TTGTAGGCGGTGAGGGTCTA	484
	reverse	CCACCTTTACCCCGTCATAA	
E26-27	forward	GGTATGTGGTAGCTGCTGGAA	687
	reverse	ACAGGTCACCGTCTTTCTGG	
E28	forward	GATGTTCCAGGCTAGGTGTGA	398
	reverse	GCGACCAGAAGCAAATCTGT	
E29-30	forward	GGGTCAGTCTGGTTGCTCAT	584
	reverse	CTTCTGCCACCCGATTT	

E31	forward	AGGAGGGGACAAACAGGTTC	250
	reverse	CCCAAAGAAACATCCCAGTC	
E32-33	forward	CACATGGTGAGGCACAGAAG	678
	reverse	CTGACTCTCAGCCCTTCCAG	
E34	forward	GGCCATATGTAGATGTTTATGGTTC	250
	reverse	TCATGGGATGGTGATTTGAA	
E35	forward	CTTTCCCCCTTTCCTGGAG	246
	reverse	ATCAACCCCAGAGTCCCAAT	
E36	forward	ACACCAGCACCGCTAGAAAG	234
	reverse	CAGTGAAGTGCAGAGCTTCG	
E37	forward	TCCCAGGTATCATCCCCTTA	245
	reverse	ACACCTCGCCAAAAAGACC	
E38	forward	CCCATCCACTTCCTTTTCA	485
	reverse	GCGAGCACAAGGACTAGACG	

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### 5'RACE primers

Name	sequence
5'RACE reverse primer-1	TTCACAGCCTTCTTCATCGCTGCCGTCCGAGCAGTCGTCC
5'RACE reverse primer-2	AAGCGCACACATCGGCCGGACATACAGCGAAACTGATCCGCCATAC ACATGGACGTGCT

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### siRNAs sequences

Gene name	description	sequence
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LRP4-siRNA	forward	GCGAUGAGGAUGGAUGUAUTT
	reverse	AUACAUCCAUCCUCAUCGCTT

### Human cDNA primer sequences used for Quantitative PCR

Gene	primer	sequence
<i>LRP4</i>	forward	GTTCCAATGACGCTGTTCT
	reverse	CCAATGGCGTAGCTGATATG
<i>NOTCH1</i>	forward	GGCAATCCGAGGACTATGAG
	reverse	CTCAGAACGCACTCGTTGAT
<i>NOTCH2</i>	forward	TGGTGGCAGAACTGATCAAC
	reverse	CTGCCCAGTGAAGAGCAGAT
<i>JAG1</i>	forward	GAATGGCAACAAAACCTTGCAT
	reverse	AGCCTTGTCGGCAAATAGC
<i>JAG2</i>	forward	TCATCCCCTTCCAGTTCG
	reverse	ATGCGACACTCGCTCGAT
<i>HES1</i>	forward	GAAGCACCTCCGGAACCT
	reverse	GTCACCTCGTTCATGCACTC
<i>GAPDH</i>	forward	TGAACCACCAACTGCTTAGC
	reverse	GGCGACTGTGGTCATGAG

### Mouse cDNA primer sequences used for Quantitative PCR

Gene	primer	sequence
<i>Lrp4</i>	forward	ACCAAGACCCGCACCTCT

	reverse	CTGGGCATCCCTTTCAGA
<i>Jag1</i>	forward	TGGCCGAGGTCCTACACTT
	reverse	GCCTTTTCAATTATGCTATCAGG
<i>Jag2</i>	forward	CTTTCACCCTCATCGTGGA
	reverse	TCAGCAGCTCCTCATCTGG
<i>Notch1</i>	forward	GGATGCTGACTGCATGGAT
	reverse	AATCATGAGGGGTGTGAAGC
<i>Notch2</i>	forward	CCATTTCAAGTGTTTCGTGTCC
	reverse	CACATTCATCGATGTTCTCTTCA
<i>Hes1</i>	forward	TGCCAGCTGATATAATGGAGAA
	reverse	CCATGATAGGCTTTGATGACTTT
<i>Gapdh</i>	forward	AGC TTG TCA TCA ACG GGA AG
	reverse	TTT GAT GTT AGT GGG GTC TCG

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**Zebrafish cDNA primer sequences used for Quantitative PCR**

Gene	primer	sequence
<i>lrp4</i>	forward	ATCCCGGCGTGAGTAACC
	reverse	TGTGCGGTCTCGATCTTCA
<i>lrp4</i> (e <sup>15</sup> i <sup>15</sup> mis-spliced)	forward	CCTGTCCATTCAACTCAGTGC
	reverse	TCTGTGGTGTCGAAGCTGAT

<i>pax2a</i>	forward	GGTCAGAGGGATTGAAGATGGATAC
	reverse	GTGGATGTCCGCTGTTGCTT
<i>wt1a</i>	forward	CCACACCCGGACACATACAG
	reverse	TCTGACCTGGCAAACCTTCTTCT
<i>wt1b</i>	forward	CGAGGCTCGGACCAGAGT
	reverse	CGGTGGCTCAGTGGTTTGC
<i>nephrin</i>	forward	CGGTGTTCTGTTCCCTCCTGAA
	reverse	GCTGCTGGTGTTCCTTTC
<i>podocin</i>	forward	CGAGAGGAGTTATTAGCATTATTGG
	reverse	ACTCCAAGGTATTTCTTCTTTAGGC
<i>wispla</i>	forward	CGGCCCTGCAATGTGGATA
	reverse	TTGAGGCTTCTCTGCTCTGTAG
<i>furina</i>	forward	ACAAGCTGATGCTGTTGAGG
	reverse	CACAGCAGGCCGCTAAAT
<i>grip1</i>	forward	AGGTCATCATCATCGACAAGG
	reverse	CATGCAGAGCACACACCTA
<i>itga3</i>	forward	TGCAGGGCTCCACCATTATAGG
	reverse	GGACTTTCACACCTTGGTACTTTG
<i>fras1</i>	forward	GCAGTGCCTCAGCAAATGT
	reverse	TCCTTACATGATGGATGACAAGA
<i>frem2a</i>	forward	AGCCAAACACAGGCTGATCT
	reverse	TCCTCATGCTGGTGGGATA
<i>hmcn2</i>	forward	GGGCTGGTTTCTCTAGTATACCTGT
	reverse	GAACACTTCAGCATCACATGG

<i>jag1b</i>	forward	GTGTGGATGGTGAAAACCTGGT
	reverse	GGGAGAAGACTGACACTCATTTATATT
<i>jag2a</i>	forward	TCTGTCTATACGAACTACGACATGC
	reverse	ATCTGCAGCATCCATTCCA
<i>jag2b</i>	forward	GAGAAAAGAGCGCGAGAGAC
	reverse	GGTTCCCCTGGTTGTTGAC
<i>notch2</i>	forward	ATCGACGAGTGTGTCATTGG
	reverse	GATGTCCTGCTCACAACGTG
<i>her1</i>	forward	GCGACTGCGAGAGATCAAG
	reverse	ATGGCATCTGGGGTCTCC
<i>her2</i>	forward	TCTTTCCAGCTGAGGAAACC
	reverse	TGCATTTGTTGATGCGATCT
<i>lim1</i>	forward	AGTCCGAGAAGAATGCGAAC
	reverse	GGCCGTAGTACTCGCTTTGA
<i>actin</i>	forward	GGC TAC AGC TTC ACC ACC A
	reverse	TGC TGA TCC ACA TCT GCT G

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