

Table S1

See Supplementary Table S1 (excel file)

Table S2

Human					Mouse					
circRNA	GRCh37/hg19		circBase ID	Gene	circRNA	GRCm38/mm10		circBase ID	Gene	
	Chromosome	Start				End	Chromosome			Start
circANK1b	chr7	91924202	91957214	hsa_circ_0135062	ANK1B1	chr5	3747020	3772787	mmu_circ_0001311	Ank1b1
circCAMSAP1	chr9	138773478	138774924	hsa_circ_0001900	CAMSAP1	chr2	25821182	25822468	mmu_circ_0009762	Camsap1
circCDYL	chr6	4891946	4892613	hsa_circ_0008285	CDYL	chr13	35907777	35908444	mmu_circ_0000451	Cdyl
circHDGFRP3	chr15	83819966	83832827	hsa_circ_0000646	HDGFRP3	chr7	89038684	89050522	mmu_circ_0001589	Hdgfrp3
circHIPK3	chr11	33307958	33309057	hsa_circ_0000284	HIPK3	chr2	104310905	104312004	mmu_circ_0001052	Hipk3
circMAGI	chr3	65464266	65479306	hsa_circ_0066459	MAGI1	chr6	93742340	93765819	mmu_circ_0001496	Magi1
circMED13L	chr12	116675272	116675510	hsa_circ_0028587	MED13L	chr5	119043341	119043579	mmu_circ_0001396	Med13l
circNFIX	chr19	13135834	13136366	hsa_circ_0005660	NFIX	chr8	87295682	87296214	mmu_circ_0001704	Nfix
circRMST	chr12	97886238	97954825	hsa_circ_0099634	RMST	chr10	91537914	91599435	mmu_circ_0000205	Rmst
circSLC8A1	chr2	40655612	40657441	hsa_circ_0005232	SLC8A1	chr17	82047148	82048978	mmu_circ_0000823	Slc8a1
circTULP4	chr6	158733082	158735300	hsa_circ_0131202	TULP4	chr17	6137210	6139156	mmu_circ_0000723	Tulp4
circUNC79	chr14	93934016	93963632	hsa_circ_0102954	UNC79	chr12	104229559	104260086	mmu_circ_0000411	Unc79
circZNF609	chr15	64791491	64792365	hsa_circ_0000615	ZNF609	chr9	65642428	65643302	mmu_circ_0001797	Zfp609
circZNF827	chr4	146744573	146770713	hsa_circ_0001447	ZNF827	chr8	81642073	81660562	mmu_circ_0001698	Zfp827

Table S3

dishRNA-circZNF827 vs. dishRNA-lrr +RA fold change>2, p<0.05		dishRNA-circZNF827 vs. dishRNA-lrr -RA fold change>2, p<0.05		dishRNA-circZNF827 vs. dishRNA-lrr +RA, BrU IP fold change>2, p<0.05	
<i>Upregulated genes</i>	<i>Downregulated genes</i>	<i>Upregulated genes</i>	<i>Downregulated genes</i>	<i>Upregulated genes</i>	<i>Downregulated genes</i>
NGFR	NQO1	FN1	NTNG1	NQO1	ATP8A2
SYT13	NTS	NQO1	FOS	NTS	NGFR
NTRK1	FN1	TNR	GRM8	FN1	MYC
	BNIP3	TNC	SNCAIP	TNR	SYT13
	TNR	DDC	CDKN1A	TNC	PMP22
	NEGR1	BNIP3	FAS	TAF4B	
	TBPL1	NEGR1	LRP1	NELL2	
	TNC	STAT3	PLA2G16	FXN	
	PTEN		ACHE	NEGR1	
	STAT3		DCX		
	GTF2A1		CADPS		
	JAM3		ARC		
	OXR1		PRKCE		
	CHRNA7		STX1B		
	PPT1				
	MMP16				
	MYH10				
	PLCB4				
	NELL2				
	GALC				
	CHMP2B				
	PLS1				
	SORL1				
	LPAR1				
	GSTP1				
	MGMT				
	PGK1				
	EIF2S1				
	IDE				

Table S4

Oligonucleotides for construction of pFRT/U6-dishRNA		
	Sense (5'-3')	Antisense (5'-3')
hscircTULP4	GATCACAAATCTCGCTATTGTGGCCCCACAATAGCGAGATTGCTTTTT	TCGAAAAAGCAAATCTCGCTATTGTGGGCCACAATAGCGAGATTGT
hscircZNF609	GATCACAAATCATTGCTTTTCAGACGAAAAGCAATGATGTTGCTTTTT	TCGAAAAAAGCAACATCATTGCTTTTCGCTGTGAAAAGCAATGATGTTGT
hscircSLC8A1	GATCAGTCACAACCTAACAAATTTTATAATTTAGGTTGTGACCTTTTT	TCGAAAAAAGGTCACAACCTAACAAATTTAGAAATTTAGGTTGTGACT
hscircHDGFRP3	GATCAAGTTTCATCAATCCCTTCACTGGAAAGGATGATGAACCTTTTT	TCGAAAAAAGAGTTTCATCAATCCCTTCCAGTGAAGGATTTGATGAAC
hscircCDYL	GATCAATCTTTCAACCTTTCCCGTTGGAAAGGTTGAAAGGATCTTTTT	TCGAAAAAAGATCCTTTCAACCTTTCCAACGGGAAAGGTTGAAAGGATT
hscircCAMSAP1	GATCAAGGATGTTATCTTGTGATCAACAAGATAACATCCCTCTTTTT	TCGAAAAAAGGAGGATGTTATCTTGTGATCAACAAGATAACATCCCTT
hscircZNF827	GATCAGTAGCTTTCCGCTGGAGCTGACTCCAGCGGAAAGCTACCTTTTT	TCGAAAAAAGGTAGCTTTCCGCTGGAGTCACTCCAGCGGAAAGCTACT
hscircANKIB1	GATCATCTTTCACATTCATGAGCTCGCTCATGAATGTGAAAGACTTTTT	TCGAAAAAAGTCTTTCACATTCATGAGCGAGCTCATGAATGTGAAAGAT
hscircUNC79	GATCACTTGGAAAGCAACTGTGACTGACACAGTTGCTTCCAAGCTTTTT	TCGAAAAAAGCTTGGAAAGCAACTGTGACTGACACAGTTGCTTCCAAGT
mmcirczfp827	GATCAGTAGCTTTCCGCTGGAGCAGACTCCAGCGGAAAGCTACCTTTTT	TCGAAAAAAGGTAGCTTTCCGCTGGAGTCTGCTCCAGCGGAAAGCTACT
hnRNPK #1	GATCAATAATTCCTCTGCTAGACTCCTAGCAGGAGGAATATCTTTTT	TCGAAAAAAGATAATTCCTCTGCTAGACTCCTAGCAGGAGGAATATT
hnRNPK #2	GATCATTCATAAGCCATCTGCCATTCAGGATGGCTTATGAACCTTTTT	TCGAAAAAAGTTCATAAGCCATCTGCCGAATGCCAGATGGCTTATGAAT
hnRNPL #1	GATCAATTTACCTTCTCCACATTTGCTGTGGAGAAGGTGAAATCTTTTT	TCGAAAAAAGATTTACCTTCTCCACAGCAATGTGGAGAAGGTGAAATT
hnRNPL #2	GATCACACTTTTGCTGAGAACTATTCTCAGGCAAAAGTCTTTTT	TCGAAAAAAGCAGCTTTTGCTGAGAACTATTCTCAGGCAAAAGTGT
lrr	GATCATCGTCATAACGTTTATAGCGGTATGAACGTTATGACGACTTTTT	TCGAAAAAAGTCTGTCATAACGTTTATAGCGGTATGAACGTTATGACGAT
Primers for construction of pCCL/U6-dishRNA-PGK-eGFP-MCS		
	Sense (5'-3')	Antisense (5'-3')
U6-dishRNA	AAAATCGATAAGGTCGGGCAGGAAGAGGG	AAACGTACGAAACGGGCCCTCTAGACTCG
Primers for construction of pcDNA3/circRNA		
	Sense (5'-3')	Antisense (5'-3')
circZNF827	AAAGGATCCCGGAAAGCTACAAGGAAACAC	AAAGCGGCCGCTGGAGCTGATATTTCTCCG
circTULP4	AAAGGATCCGATTTGTAAGACTCCAGGGCCTCCC	AAAGCGGCCGCTCGCTATTGTGGCCCGGAGGTTG
circZNF609	AAAAGCTTTGCAATGATGTTGTCCACTGG	AAAGCGGCCGCTTTTTCAGACTTGCATTTCTTTAG
circHDGFRP3	AAAGGATCCATTGATGAACCTCCAGAGGG	AAAGCGGCCGCTTCACTGGTTTTCTGCAAG
circSLC8A1	AAAGGATCCGTTGTGACAGTTGGAAGTGTG	AAAGCGGCCGCAAAATTTTCATCTTCTGGA
Primers for construction of pcDNA3.1(+)-Laccase2-circRNA		
	Sense (5'-3')	Antisense (5'-3')
circZNF827	AAATTAATTAACGGAAAGCTACAAGGAAACAC	AAACCGCGGCTGGAGCTGATATTTCTTCCG
Primers for construction of pcDNA5_FRT/TO-FLAG-RBP		
	Sense (5'-3')	Antisense (5'-3')
hnRNPU	ATTAGGATCCATGAGTTCCTCGCCTGTAA	ATTAGCGCCGCTCAATAATATCTTGGTGAT
DHX9	ATTAGGATCCATGGGTGACGTTAAAAATTTTC	ATTAGCGCCGCTTAATAGCGCCACCTCCTC
DDX3X	ATTAGGATCCATGAGTCAATGTTGGCAGTGG	ATTAGCGCCGCTCAGTTACCCACCAGTCAA
hnRNPK	AAAGGTACCATGGAACCTGAACAGCCAGA	AAAGCGGCCGCTTAGAATCCTTCAACATCTG
hnRNPL (short isoform)	AAAGGATCCATGTCGCGGAGGCTGCTGCC	AAAGCGGCCGCTTAGGAGGCGTGTGAGCAG
hnRNPL (long isoform)	AAAGGATCCATGCCTAAAAAGAGACAAGC	AAAGCGGCCGCTTAGGAGGCGTGTGAGCAG
Primers for RT-qPCR		
	Sense (5'-3')	Antisense (5'-3')
mmcircMed13L	CCAACCTGCTGTGTATGG	TGCCCTCCAAAATTTGACCT
mmcircMagi1	TAGTCCACCCCGGAGAAATGAG	CTTTCATAGGTGCCACTTCC
mmcircHdgfrp3	TGACACGAGAAACACGACTG	ACTTGTGTTGCTGGAGGCTTC
mmcircEzh2	TACAGCCTGTGCACATCATG	TTTTACACGCTTCCGCCAAC
mmcircAnkib1	TATGCTGCCTTAGACAAGCG	AGTGGCAGCTTCTTCTTCC
mmcircAff3	CAAGCTCTGACGAATCTCC	CTGATGCCTGAACTTCCAGA
mmcircNfix	TGTCCAGCCACATCACATTG	TTTGACATCCGCTTCTCGTG
mmcircRmst	GAAGGATCTGCCAAGCTCAC	CACCTTCGCTGACTCCAT
mmcircSlc8a1	TCTGGAGCTCGAGGAAATGT	TTGGTGGGAGACTTAATCG
mmcircTulp4	AGAAACCTGTGTGCAAGAGG	TTTCATGACTGGAAGTCTCG
mmcircZfp609	CCGGCCACTAAAGAAAGTCA	AGTCAACGTCACCACTCAAG
mmcircZfp827	AAAAGATCTGCTGCCTGGTG	AGTGTGTAGGCAACTTCC
mmNanog	CCTCCAGCAGATGCAAGAACTC	CTTCAACCACTGGTTTTTCTGCC
mmNestin	GAAGGTGGGACGCAACTGCA	TCAGCCTCCAGCAGAGTCTGT
mmTrkB	AGCAGCCCTGGTATCAGCTA	CTTGATGTTCTTCCGGGTGT
mmB-Tub III	ACTTGGAAACCTGGAACCATGG	GGCCTGAATAGGTGTCCAAAGG
mmGAPDH	TGGGAAGCTTGTTCATCAACG	TTTTGGCTCCACCTTCAAG
hscircTULP4	CTGTGTGACAGGAGACGCTAC	CTTCCCCAGTCATTTCAAG
hscircZNF609	AGGAAGGGGAGAAATGAGTGT	GTTCTCAGACCTGCCACATT
hscircSLC8A1	GAGGGGAGGATTTTGGAGGAC	AGACTTAATCGCCGATGTT
hscircHDGFRP3	GCAACGACACAAGAAACACA	GTTTCATGGGTGCCAAAA
hscircCDYL	GGCCAGGATACACCCACTA	AGCCTTCCACCGAACCAAA
hscircCAMSAP1	GATGATCAGACTCGAGAAAGG	ATAACAGCGGCTTAATGTG
hscircZNF827	TCACCATTACACTCCAATTC	AGTGTGTAGCCAACATTCC
hscircANKIB1	AGGCCTCAGGATCTTCGTAG	CACCTTCTGGAACACTTCTGCA
hscircUNC79	CGTATGGGCCCTTCACAAGTG	TCCTGCAAGTACCCGATCTT
hsRAR α	CTGCCTGGACATCTCTGATCC	CAAAGACCAGGTCGGTGAGG
hsRAR β	GAAGGAGACTTCAAGGCAAG	ATGGTCAGCACTGGAATTCG
hsRAR γ	TCGCTAGAGGCAATTGGGGTG	GGGCATCAGCACTAAGGGAG
hsTUBB3	GGCCTCTTCTCACAAGTACG	CCACTCTGACCAAAGATGAAA
hsTrkB	ACCACTGTGTGATTCATTC	CCCCATTGTTTCATGTGAGTG
hsNEFL	GAGTGAATGGCAGCATACC	TAGCCACTGGTTATGCTTCC
hsMAP2	CAAAGAGAATGGGATCAACG	CAGGACTGCTACACGCCCTCAG
hsGAPDH	GTCAGCCGATCTTCTTTTG	GCGCCCAATACGACCAATC
hs β -actin pre-mRNA	TTCCCCAGTGTGACATGGTG	ACCATGTCAACTGGGGAAG
hsNGFR	CCGAGGCACCCAGCAACCC	GGCGCTGTGGTTCACTGGCC
hsc-FOS	TCGCCTGTCAACGCGCAGG	GACTGGTCGAGATGGCAGT
hsZNF827	ACCCGGATGTTTGTGAGTGTG	ACCACTGTCTGAGTTGAGC
hshnRNPL	ACAAACCCCAATCTCAGTGG	CATATTTCTGCGGGGTGATCT
hsNGFR promoter	CTGATAGGGGCAAGTTAGGG	GCCACAGGTTCACTCTCTT
hsGAPDH promoter	Pierce Magnetic ChIP Kit (Thermo Scientific)	Pierce Magnetic ChIP Kit (Thermo Scientific)
Probes for Northern blot (5'-3')		
circZNF827	TCACCATCTGTGTTTCCCTTGTAGCTTTCCGCTGGAGCTGATATTTCCGCTGACGACGG	
β -actin	AATGTCACGCACGATTTCCCGCTCGGCCGTTGGTGGTGAAGCTGTAGCCGC	

Table S5

Antibody	Manufacturer	Catalog number
BrU	BD Biosciences	555627
DDX3X	Sigma-Aldrich	HPA00648
FLAG	Sigma-Aldrich	F7425
GAPDH	Invitrogen	AM4300
hnRNP C1/C2	Kind gift from Seraphin Pinol-Roma	
hnRNPK	Abcam	ab39975
hnRNPK	Santa Cruz Biotechnology	sc-28380
hnRNPL	Abcam	ab6106
hnRNPU	Sigma-Aldrich	HPA058707
HuR	Santa Cruz Biotechnology	sc-5261
IgG	Cell Signaling	2729S
LARP1	Cell Signaling	70180S
MAP2	Santa Cruz Biotechnology	sc-390543
NGFR	Cell Signaling	8238S
RNA Pol II	Thermo Scientific (Pierce Magnetic CHIP Kit)	26157
TUBB3	Cell Signaling	8572S
ZNF827	Santa Cruz Biotechnology	sc-514943