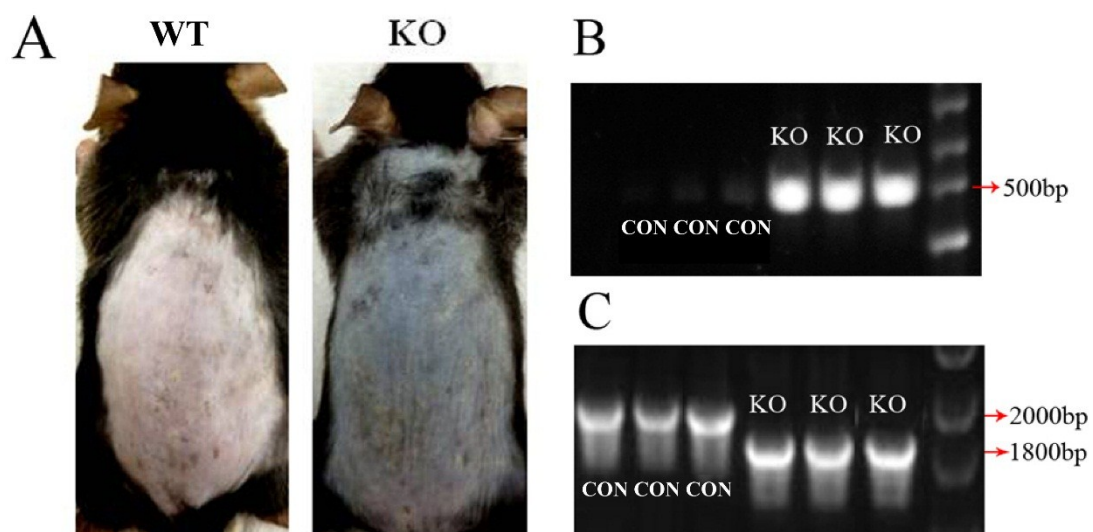


Supplementary information



Supplementary Fig. 1 Phenotype and genotype of KO mice. (A) Phenotype of MED1 KO (KO) mice and wild type (WT) mice. (B&C) Genotype of MED1 KO mice and the WT mice was further confirmed by PCR, bands corresponding to 500bp are K14 cre and corresponding to 2000bp or 1800bp are MED1.

Supplementary table 1. Comparison of MED1 KO mice vs WT mice for the top 15 up-regulated expression of circRNAs (fold change > 2 and p-value < 0.05) sorted by their fold change (FC)

circRNA	Symbol	FC	p-value	MRE1	MRE2	MRE3	MRE4	MRE5
mmu_circRNA_017277	Xylt1	3.6524748	0.0379	mmu-miR-30c-1-3p	mmu-miR-30c-2-3p	mmu-miR-6539	mmu-miR-466b-5p	mmu-miR-466b-5p
mmu_circRNA_43963	Fam118b	3.4432945	0.0456	mmu-miR-6342	mmu-miR-1907	mmu-miR-7214-5p	mmu-miR-6353	mmu-miR-7232-5p
mmu_circRNA_31491	Slc25a46	3.1530016	0.027	mmu-miR-670-5p	mmu-miR-8091	mmu-miR-6339	mmu-miR-7008-3p	mmu-miR-7002-3p
mmu_circRNA_44267	Lingo1	2.9846941	0.0153	mmu-miR-7058-5p	mmu-miR-677-3p	mmu-miR-7048-5p	mmu-miR-6921-5p	mmu-miR-6915-5p
mmu_circRNA_000043	Ctnd2	2.9483043	0.0346	mmu-miR-6957-3p	mmu-miR-1903	mmu-miR-1247-5p	mmu-miR-7240-3p	mmu-miR-3098-3p
mmu_circRNA_43493	Wdr59	2.9454849	0.0287	mmu-miR-7022-5p	mmu-miR-7673-5p	mmu-miR-7001-5p	mmu-miR-485-5p	mmu-miR-3075-5p
mmu_circRNA_21095	Rasal2	2.8575167	0.023	mmu-miR-6899-3p	mmu-miR-207	mmu-miR-7117-3p	mmu-miR-6950-3p	mmu-miR-7012-5p
mmu_circRNA_002017	Cluh	2.84526	0.0401	mmu-miR-7029-3p	mmu-miR-3547-3p	mmu-miR-3544-3p	mmu-miR-8103	mmu-miR-6938-3p
mmu_circRNA_24115	Spop	2.7759251	0.0332	mmu-miR-146a-5p	mmu-miR-6991-5p	mmu-miR-146b-5p	mmu-miR-29b-3p	mmu-miR-6988-5p
mmu_circRNA_22656	Ptprr	2.7564992	0.0226	mmu-miR-5110	mmu-miR-6918-5p	mmu-miR-7660-3p	mmu-miR-7065-3p	mmu-miR-8118
mmu_circRNA_27181	Kat6b	2.7368076	0.0282	mmu-miR-5620-5p	mmu-miR-7016-3p	mmu-miR-7054-5p	mmu-miR-149-3p	mmu-miR-5110
mmu_circRNA_40922	Ncapd2	2.6952734	0.0328	mmu-miR-221-5p	mmu-miR-7226-3p	mmu-miR-935	mmu-miR-5623-5p	mmu-miR-763
mmu_circRNA_38433	Rnf4	2.6904882	0.0438	mmu-miR-7092-3p	mmu-miR-466i-3p	mmu-miR-669b-3p	mmu-miR-466b-3p	mmu-miR-466c-3p
mmu_circRNA_013002	Ttc3	2.6664586	0.0351	mmu-miR-7661-5p	mmu-miR-7092-3p	mmu-miR-466c-5p	mmu-miR-7012-5p	mmu-miR-3473d
mmu_circRNA_21283	Pea15a	2.6269989	0.0277	mmu-miR-5110	mmu-miR-6919-3p	mmu-miR-7081-5p	mmu-miR-7684-5p	mmu-miR-125b-1-3p

Supplementary table 2. Comparison of MED1 KO mice vs WT mice for the top 15 down-regulated expression of circRNAs (fold change > 2 and p-value < 0.05) sorted by their fold change (FC)

circRNA	Symbol	FC	p-value	MRE1	MRE2	MRE3	MRE4	MRE5
mmu_circRNA_21503	Rrp15	13.224342	0.0294	mmu-miR-7011-3p	mmu-miR-7231-3p	mmu-miR-207	mmu-miR-6943-3p	mmu-miR-6971-3p
mmu_circRNA_29480	Opa1	10.23337	0.0306	mmu-miR-7663-5p	mmu-miR-7048-3p	mmu-miR-3967	mmu-miR-7077-3p	mmu-miR-141-5p
mmu_circRNA_40207	Tpk1	9.9376559	0.0265	mmu-miR-199b-5p	mmu-miR-15a-3p	mmu-miR-199a-5p	mmu-miR-7089-3p	mmu-miR-7680-5p
mmu_circRNA_42011	Pde2a	9.3072768	0.0143	mmu-miR-7665-3p	mmu-miR-6992-5p	mmu-miR-450b-5p	mmu-miR-6360	mmu-miR-6988-5p
mmu_circRNA_25091	Npas3	7.8788388	0.022	mmu-miR-6909-5p	mmu-miR-365-1-5p	mmu-miR-7035-5p	mmu-miR-7005-5p	mmu-miR-365-2-5p
mmu_circRNA_43955	Ets1	6.0251338	0.0299	mmu-miR-7094b-2-5p	mmu-miR-3087-5p	mmu-miR-871-3p	mmu-miR-7093-5p	mmu-miR-3084-5p
mmu_circRNA_39714	Wdr95	5.2530686	0.0248	mmu-miR-125a-3p	mmu-miR-6340	mmu-miR-22-5p	mmu-miR-717	mmu-miR-15b-5p
mmu_circRNA_34157	Qser1	4.8651352	0.0485	mmu-miR-7030-3p	mmu-miR-7214-5p	mmu-miR-5709-3p	mmu-miR-8116	mmu-miR-6974-3p
mmu_circRNA_013298	Birc6	4.4025402	0.046	mmu-miR-6357	mmu-miR-6985-5p	mmu-let-7k	mmu-miR-326-5p	mmu-miR-683
mmu_circRNA_25830	Rian	4.2376513	0.0376	mmu-miR-7015-5p	mmu-miR-7222-3p	mmu-miR-6963-5p	mmu-miR-216a-3p	mmu-miR-6539
mmu_circRNA_20185	Ica11	4.1526965	0.0161	mmu-miR-873b	mmu-miR-7094-1-5p	mmu-miR-107-3p	mmu-miR-103-3p	mmu-miR-7084-3p
mmu_circRNA_004229	Fmn1	4.11381	0.0115	mmu-miR-207	mmu-miR-7235-3p	mmu-miR-667-5p	mmu-miR-149-5p	mmu-miR-6914-5p
mmu_circRNA_28916	Ttll8	3.9106999	0.0246	mmu-miR-7074-5p	mmu-miR-1903	mmu-miR-1892	mmu-miR-6916-3p	mmu-miR-320-5p
mmu_circRNA_44122	Zbtb16	3.8730615	0.0401	mmu-miR-7033-5p	mmu-miR-6914-3p	mmu-miR-6974-3p	mmu-miR-7010-3p	mmu-miR-361-3p
mmu_circRNA_24517	Rab10os	3.7629546	0.0224	mmu-miR-6917-3p	mmu-miR-326-5p	mmu-miR-346-3p	mmu-miR-7001-5p	mmu-miR-6393