

Table S1. Nanostring analysis of differentially expressed genes between Sham v. DMM and Sham v. Empty Defect. Genes shown are associated with a p-value of 0.05 or less.

DMM Upregulated Genes	DMM Downregulated Genes	Empty Upregulated Genes	Empty Downregulated Genes
Ackr1	Gtf2ird1	Acin1	Dlat
F2	Nova1	Angpt2	Dot1
Gria2		Ap3s1	
Sf3b2		Apoe	
Tbp		App	
		Arsa	
		Atp6v0e1	
		Atp6v1a	
		Bax	
		Cacna1a	
		Casp3	
		Casp6	
		Cers6	
		Col6A1	
		Ap	
		Ctse	
		Ep300	
		ErbB3	
		Erg	
		Fn1	
		Fus	
		Gnai2	
		Gnai3	
		Gng2	
		Grik2	
		Grn	
		Gss	

	Gtf2b	
	Gusb	
	Hdac1	
	Hgf	
	Hif1a	
	Hmox1	
	Htra2	
	Idh1	
	Itga5	
	Itpr3	
	Jam	
	Jun	
	Lama2	
	Lama5	
	Lamb2	
	Lmna	
	Lrp1	
	Mapk3	
	Mgmt	
	Mmp2	
	Myc	
	Myh8	
	Naglu	
	Nf32l2	
	Nr4a2	
	Nsf	
	Ntf3	
	P2ry12	
	Palm	
	Pde1b	
	Pik3r1	
	Pla2g4a	
	Plcb1	

		Plcb4	
		Plekho2	
		Prkcsh	
		Psen2	
		Ptdss1	
		Rhoa	
		Rras	
		Runx-2	
		Scamp2	
		Sirt7	
		Slc11a1	
		Spp1	
		Src	
		Sri	
		Stat3	
		Stx2	
		Synj1	
		Tcirg1	
		Tgfb1	
		Tgfbr2	
		Trim28	
		Trim37	
		Trpm2	
		Tspo	
		Ugcg	
		Xab2	
		Cnot10	