MiR-21-dependent macrophage-to-fibroblast signaling determines the cardiac response to pressure overload

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- SUPPLEMENTAL MATERIAL -

Expanded Methods

Isolation of primary cells from adult mouse hearts: Hearts were harvested from 8-10 weeks old C57BL/6N mice and digested with Collagenase II (Worthington, Lakewood, NJ) as described previously ¹⁰. The enzymatically dissociated cells were then separated into cardiomyocyte- (pellet) and non-myocyte-enriched fractions (supernatant) by centrifugation (900 rpm for 1 min).

Flow cytometry/cell sorting: We combined magnetic- and fluorescence-activated cell sorting to isolate non-myocyte cell suspension into different cell fractions. The non-myocyteenriched supernatant was centrifuged at 400 g for 5 minutes and the non-myocyte cell pellet was then treated with rat anti-mouse CD16/CD32 at 4°C for 20 minutes before being incubated with Biotin-conjugated anti-CD45-primary antibodies at 4°C for 30 minutes. After washing, the cells were incubated with Streptavidin-coupled magnetic beads for 15 min at 4°C. The leukocyte fraction was then separated from other cell fractions using a MACS column (Miltenyi Biotec, Bergish Gladbach, Germany). Isolated leukocytes and cells from the flow-through were then triturated through a 40 μm Nylon cell strainer (Falcon) and subjected to FACS analysis (using a Biorad S3 cell sorter). For this, the following primary fluorescent antibodies for were used: flow-through: anti-PDGFRA-PECy7, anti-CD105-PE; leukocyte fraction: anti-CD45-Alexa Fluor 488, anti-CD11b-PE, anti-CD64-PE 594 and anti-F4/80-PeCy7.

For isolation of adult cardiac fibroblasts for co-culture experiments, the non-myocyte fraction was enriched for cardiac fibroblasts, using a MACS-based approach with a biotin-conjugated anti-PDGFRA primary antibody, followed by flow cytometry-based cell sorting with anti-PDGFRA-PECy7, anti-CD105-PE and anti-CD45-AlexaFluor 488 antibodies.

For isolation of peripheral blood cells, blood was obtained from the WT and cKO mice directly after sacrifice. After erythrocyte lysis the remaining cells were centrifuged at 400g for 7 min at 4°C and blood lymphocytes and blood monocytes were sorted via FACS based on their specific FSC area/SSC area pattern.

Hematological analyses of mouse blood samples were carried out using an automated cytometer (ADVIA, Siemens).

BrdU incorporation assay in vivo: To assess local proliferation of cardiac macrophages in vivo, wildtype and miR-21 cKO mice were subjected to TAC and three days later 5'-bromo-2'-deoxyuridine (BrdU) at a dose of 100 mg/kg was intraperitoneally administrated 2 h before sacrifice. Myocardial sections (5 μ m) were fixed with methanol (at -20°C for 10 min), washed thoroughly with tap water and treated with acetone (at -20°C for 1 min). The sections were dried and then treated with 1N HCl at 37°C for 20 min (to expose the incorporated BrdU) and 0.1M borate buffer at RT for 30 min. The sections were then blocked with 5% goat serum diluted in PBS and stained with primary antibodies against MRC1, BrdU and CD68 at 4°C overnight. The sections were then stained with the respective secondary antibodies. Images were acquired by confocal microscopy using 63X glycerol objective (Leica SP5), and analyzed using the Metamorph software (n > 2000 cells per heart).

Histochemical and immunohistochemical analyses: For the analysis of collagen deposition, paraffin sections (8 μm) of left ventricular myocardium were stained with Sirius red and Fast green ⁵¹. Whole heart images were taken with a 10x objective using a AxioObserver.Z1 (Zeiss, Jena, Germany) motorized scanning-stage microscopy (130 x 85; Märzhäuser, Wetzlar, Germany). Fibrosis was quantified as the ratio of signals from Sirius red to Fast green in each section. The cross-sectional area of cardiomyocytes was assessed by staining 6 μm-thick myocardial paraffin sections with Alexa Fluor 647-labeled wheat-germ agglutinin

(WGA; Life Technologies). SYTOX Green (Life Technologies) was applied to detect nuclei (at 488 nm). Images were taken from areas of transversely cut muscle fibers at 20x magnification (Leica TCS SP5 II; laser lines, 488nm for SYTOX Green and 633nm for WGA). Metamorph software (Molecular Devices) was applied for automated cell detection and to determine the average cross-sectional area of cardiomyocytes in one section (n > 50 cells per section; 100-200 cells per heart)⁵².

Quantitative real-time PCR: Total RNA was prepared with peqGOLD RNA pure and 1 μ g was reverse transcribed with Protoscript reverse transcriptase (NEB), both according to the manufacturer's instructions. Quantitative real-time PCR amplification of target mRNAs was performed with primers listed below, using the FastStart universal SYBR Green master mix (Roche). The specificity of primers was validated by plotting the dissociation curve. The sample volume of 12.5 μ l contained 1x SYBR Green master mix, 10 pmoles of each primer and 10 ng of template. PCR was performed using StepOnePlus Real-Time PCR systems (Applied Biosystems).

The expression of miR-21 was quantified, using LNA-enhanced microRNA assays (Exiqon). 10 ng of total RNA were reverse-transcribed, using the Universal cDNA Synthesis kit II (Exiqon). The cDNAs were then quantified, using the Fast Start Universal SYBR Green master mix (Roche) and LNA-enhanced miRCURY PCR primer sets for miRNAs (Exiqon). For real-time PCRs, thermal-cycling parameters were applied as recommended by the manufacturer (Exiqon). U6 snRNA was used as normalization control.

MicroRNA sequencing: Small RNA library preparation was carried out as described previously ⁵³. In brief, 100 ng of isolated total RNA was used, with Truncated T4 RNA Ligase 2 for the first ligation to an adenylated 3-adapter, and T4 RNA Ligase 1 in a second

ligation of an RNA adapter to the 5-end of the RNAs. The product was reverse-transcribed using the SuperScript III First Strand Synthesis Super Mix (Invitrogen), followed by a PCR amplification using Phusion polymerase, wherein index sequences and other Illuminaspecific sequences were added. The samples were run on 6% urea-PAGE, and the bands corresponding to miRNA-containing PCR amplification products were cut out and eluted overnight in 300 mM NaCl, 2 mM EDTA. The supernatants containing the libraries were collected using Spin-X filter tubes (COSTAR), precipitated with ethanol overnight at -20 °C, pelleted, and dissolved in water. After library pooling, the deep sequencing run was performed on an MiSeq sequencer (50 cycles, single run). Then, FASTQ files were generated from raw BCL output. Sequencing of small RNAs of different myocardial cell fractions (n = 3 from each group) yielded approximately 1 million reads per sample (approximately 85% valid reads) after removing the adaptor sequences, and filtering low quality (Phred Q < 30) and small (less than 12 nucleotides) reads. The remaining high-quality reads were further filtered for unique sequences, counted for each sample, aligned to small RNA reference library (miRNA hairpins from miRBase v21) and read abundances normalized to counts per million using miRDeep2 tool. We then then filtered for microRNAs i.) that had non-zero values in replicates of at least one cell type and ii.) that showed average detection range across all samples of > 3 counts per million. DESeq2 was used to test for differential expression of small RNAs between the samples.

PolyA-RNA sequencing: Intact mRNA was isolated with a peqGOLD RNA pure (Peqlab) kit. Libraries were constructed in a strand-specific manner from 100 - 400 ng of RNA using TruSeq Stranded mRNA sample preparation kit (Illumina, San Diego, California), as described previously ¹¹. RNA was then fragmented, subjected to two rounds of cDNA synthesis and adapters were then ligated to ds cDNA.

All libraries were sequenced on Illumina HiSeq 4000 generating 100 bp paired-end reads. High quality reads were obtained by trimming adapter sequences, invalid and low quality reads from the raw reads. The clean reads were then mapped to *Mus musculus* 11.1 reference genome by HISAT2 software (v 2.1.0) using default parameters. Then, transcript assemblies were constructed using StringTie software (v 1.3.6). StringTie merge software (v 1.3.6) was used to merge transcripts and DESeq2 software (v 2.11.40.2) was used to compute differential expression.

Single cell sequencing: Cells were isolated from wild type and knockout mice 6 days after TAC surgery. The non-myocyte fraction (approximately 10,000 cells) was loaded into a single channel of the Chromium system (10X Genomics) for each of the samples, and the libraries were prepared according to manufacturer's instructions. Illumina sequencing was then carried out using HiSeq4000.

Cell ranger (v 2.1.0; 10X Genomics) was used to process raw sequencing data and was processed with Seurat (v 3.1.5) ⁵⁴ for downstream analysis. Sequencing reads were aligned to mouse reference genome 10 (mm10) (Genome Reference Consortium). Cells with < 200 genes or > 3000 genes or mitochondrial genes greater than 5% were filtered out. Expression data was log-normalized, and highly variable genes were detected for linear dimensional reduction using principal component analysis (PCA). Altogether, the filtered data contained 24,862 cells and 19,751 genes. The components that contributed significantly to the dimensionality of the data were identified using a JackStraw test and used for unsupervised graph-based clustering (resolution 0.3) and Uniform Manifold Approximation and Projection (UMAP) embedding and visualization. DoubletFinder was then implemented on this preprocessed Seurat project as described previously ⁵⁵ to identify and remove doublet cells. Then, the three objects were combined into a single object, using the RunFastMNN algorithm

that scales the values of the two datasets relative to each other and align the cells in the same manner. Dimensionality reduction and unsupervised clustering of cells, as implemented in the Seurat package, was then carried out to identify distinct cell populations within the large data set. This approach allowed to carry out a single integrated analysis on all cells. To reveal heterogeneity within the major cell types, we carried out cell clustering at a high resolution of 0.2. FindMarkers tool within the Seurat package was then used to identify individual marker genes for each cluster. DESeq2 was used to identify differentially expressed genes between two clusters (log2 fold change > 0.25 or log2 fold change < -0.25, and p value <= 0.05). RNA velocities of single cells were estimated using Velocyto and scVelo packages by distinguishing unspliced and spliced mRNA transcripts detected in standard single-cell RNA sequencing protocols as described above.

Gene ontology analysis: Gene ontology enrichment analysis was performed on the top 200 deregulated genes between macrophage cells of two groups using the David bioinformatics tool ⁵⁶. A hypergeometric test (Fisher's exact test) was used to calculate the statistical significance of gene overrepresentation followed by a Bonferroni correction for multiple testing to estimate proportion of enriched genes that may occur by chance for the given set of genes. The top significantly enriched GO terms were then analysed to reduce the number of redundant GO terms and visualised using the GOPlot R package.

Ligand receptor pairs: We used the ligand-receptor (LR) pairs compiled by Ramilowski and colleagues ²⁵ to determine the cell-to-cell communications in the cardiac cellulome. A ligand or receptor was defined as 'expressed' in a particular cell type, if the 20% of the cells of that cell type had a TPM expression greater than three. A network linking any two cell types was generated where the ligand was expressed in the first cell type and the receptor was expressed in the latter cell type. The networks were plotted using iTALK and igraph R packages.

Cell culture: Primary bone marrow progenitor cells were isolated from C57BL/6N mice and differentiated into macrophages for 6 days, using RPMI medium containing recombinant 10 ng/ml M-CSF (Peprotech), 1% penicillin/streptomycin and 10% FCS. MiR-21 inhibition in vitro was achieved through transfection of LNA-antimiR-21 (50 nM) or LNA-antimiR-control using Lipofectamine RNAiMax (ThermoFisher). After 5 hours, the medium was replaced with RPMI medium containing 0.1% FCS. After 24 hours, BMDMs were incubated with 5 ng/mL lipopolysaccharide (LPS; Sigma) for 24 hours. Protein quantification in BMDM supernatant was done using the Legendplex (Biolegend) assay on supernatant from stimulated/non-stimulated macrophages.

Macrophage-fibroblast co-culture system: For co-cultivation of macrophages and cardiac fibroblasts, a 2-well chambered co-culture µ-slide (Ibidi; 2 major wells each with 9 microwells) was used. Prior to seeding, the center microwells were coated with 0.18 µg/µl matrigel overnight at 4°C to enable fibroblast cultivation without differentiating these cells into myofibroblasts. Adult mouse cardiac fibroblasts (AMCF) were isolated from 8-10 weeks-old C57BL/6N mice as described above. 20,000 AMCFs in 50 µl of RPMI 1640 medium containing 1% FCS and 1% penicillin/streptomycin were seeded into the center microwell of the chambered co-culture slide. 24 hours later, approx. 6700 mature LPS-stimulated and LNA-antimiR-21-treated BMDMs were added to the 8 microwells surrounding the central microwell that contained the fibroblasts. A 3:1 ratio of fibroblast to macrophages was adjusted to closely mimic the cell ratios in the intact myocardium in vivo. After 48 hours, fibroblasts cells in the center microwell were fixed with 4% paraformaldehyde (5 min) and permeabilized with 0.2% Triton-X (5 min) at room temperature. Cells were then incubated with primary antibodies against vimentin (Abcam #AB24525, Cambridge, UK) and alpha-smooth muscle actin (ACTA2; Sigma #A2547,

Taufkirchen, Germany) for 3 hours at 37°C in a humidified chamber. The cells were then washed with 0.1% Tween20/PBS and incubated with secondary antibodies, anti-mouse Alexa Fluor 488 and anti-chicken Alexa Fluor 568, for 3 hours at 37°C in a humidified chamber. DAPI was used to detect nuclei. Cells were covered with 50% glycerol/PBS and stored at 4°C. Images were acquired using a 10X objective of AxioObserver Z1 (Zeiss, Jena, Germany). Image acquisition and analysis was automated using Metamorph software (Molecular Devices, Downington, U.S.A.).

Data availability

All NGS datasets were deposited to the European Nucleotide Archive (ENA). The accession numbers for the datasets are as follows:

- 1. Small RNA-seq of myocardial cell types (PRJEB41089)
- 2. Small RNA-seq of cardiac macrophages after pressure overload and Sham (PRJEB41096)
- 3. RNA-seq of cardiac macrophages (PRJEB41314
- 4. scRNA-seq of nonmyocytes (PRJEB41145)

Supplemental Figures and Figure Legends

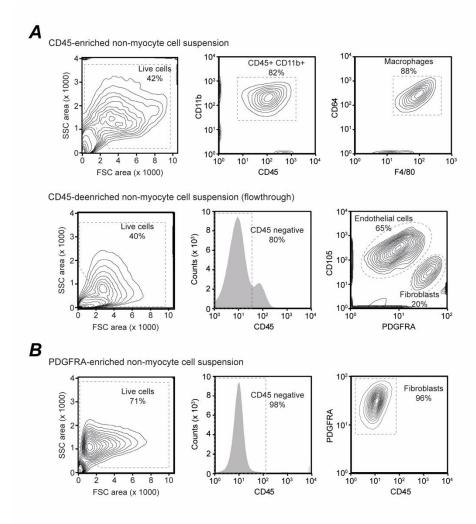


Figure I. Magnetic activated cell sorting (MACS) and fluorescence activated cell sorting (FACS) strategy to isolate different cardiac cell types.

(A) Strategy to isolate different myocardial cell types. Nonmyocyte cells were enriched for immune cells by magnetic sorting using magnetic microbeads-conjugated anti-CD45 antibody. The flowthrough cell suspension was enriched for fibroblasts and endothelial cells. *Top*, representative flow cytometry plots indicating gating strategy used on CD45-enriched cell suspension to isolate purified cardiac macrophages. *Bottom*, representative flow cytometry plots indicating gating strategy used on CD45-enriched cell suspension

(flowthrough) to isolate purified cardiac endothelial cells and cardiac fibroblasts. (**B**) Strategy to isolate cardiac fibroblasts. Nonmyocyte cells were enriched for fibroblasts by magnetic sorting using magnetic microbeads-conjugated anti-PDGFRA antibody. Representative flow cytometry plots of PDGFRA-enriched cell suspension to isolate purified cardiac fibroblasts. Anti-CD45 antibody was used as an exclusion marker to isolate pure fibroblast fraction.

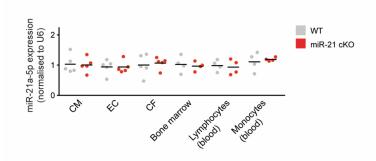


Figure II. Quantification of miR-21 in myocardial cell types and myeloid cells.

Quantitative assessment of endogenous miR-21a-5p in other myocardial cell types (cardiac myocytes (CM), endothelial cells (EC) and cardiac fibroblasts (CF)) and myeloid cell types (bone marrow, blood lymphocytes and blood monocytes) isolated from wild type and miR-21 cKO mice. n=4-5 mice per group.

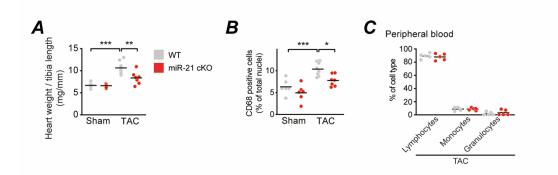


Figure III. Macrophage-specific deletion of miR-21 prevents pressure overload-induced cardiac hypertrophy in mice.

(A) Eight-weeks old wild type and miR-21 cKO mice were subjected to either TAC or Sham surgery and hearts were harvested four weeks later. Ratio of heart weight to tibia length (HW/TL). (B) Quantitative analysis of immunofluorescence staining with an antibody directed against CD68 (macrophage marker) of sections from left ventricular myocardium. WT Sham n=6; miR-21 cKO Sham n=7; WT TAC n=10; miR-21 cKO TAC n=7. (C) Lineage distribution of peripheral blood analyzed by the ADVIA hematology analyzer system. WT TAC n=5; miR-21 cKO n=5. Data are mean and individual points and were analyzed using two-way analysis of variance (ANOVA) with Sidaks' posttest. *P<0.05, **P<0.01 and ***P<0.001.

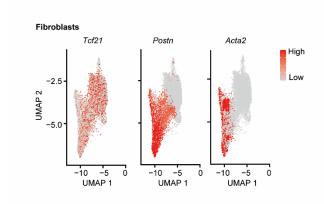
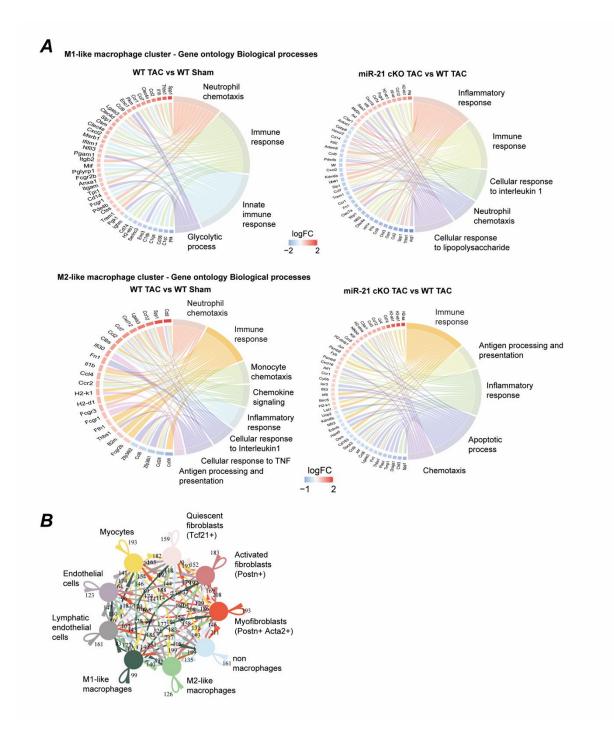
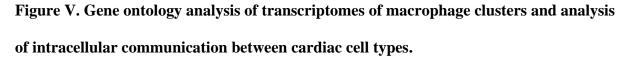


Figure IV. Expression of fibroblast marker genes within the different fibroblast clusters.

Feature plot of single cell transcriptomes labeling cells that express *Tcf21*, *Postn* and *Acta2*.





(A) Gene ontology (GO) enrichment analysis on biological processes of top 200 deregulated genes in M1-like macrophages and M2-like macrophages in WT TAC vs WT Sham and miR-

21 cKO TAC vs WT TAC. (**B**) Network diagrams of the paracrine interactions between different cardiac cell fractions under Sham conditions. The line color indicates ligands broadcast by the cell population of the same color. The line thickness is proportional to the number of ligands where cognate receptors are present in the recipient cell population and numbers indicate the quantity of ligand-receptor pairs for each inter-population link. Ligand or receptor is considered to be expressed when it is detected in at least 20 percent of a cell population.

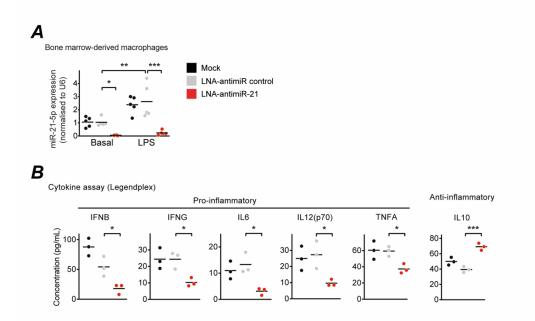


Figure VI. Silencing of miR-21 in bone marrow-derived macrophages and cytokine assays.

(A) Relative abundance of miR-21 in bone marrow-derived macrophages 48 hours after transfection with either LNA-antimiR-21 or LNA-antimiR control. n=5 per group. (B) Bone marrow-derived macrophages were transfected with either LNA-antimiR-21 or LNA-antimiR control. After 72 hours, supernatants were collected and the levels of chemokines (IFNB, IFNG, IL6, IL12(p70), TNFA and IL10) were detected using Legendplex multi-analyte flow assay kits. n=3. Data are mean and individual values and were analyzed either using two-way (A) or one-way (B) analysis of variance (ANOVA) with Sidaks' posttest. *P<0.05, **P<0.01 and ***P<0.001.

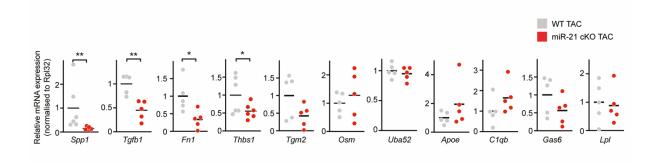


Figure VII. Expression of ligand genes in myocardial tissue after genetic deletion of miR-21 in macrophages.

Quantitative PCR assessment of mRNA levels of genes encoding the ligands as identified in Figure 4B in the wild type and miR-21 cKO mice subjected to pressure overload. Data are from 5 animals per group with 3 technical replicates each. Data are mean and individual values and were analyzed using Students' t-test or Mann-Whitney test (*Spp1* and *C1qb*). *P<0.05 and **P<0.01.

Supplemental Tables

Table I. Key Resources Table

Reagent or resource	Source	Identifier
Primers for PCR		
<i>Acta1</i> mouse forward primer. Sequence: 5'-CCCAAAGCTAACCGGGAGAAG-3'	This work	NA
<i>Acta1</i> mouse reverse primer. Sequence: 5'-CCAGAATCCAACACGATGCC-3'	This work	NA
<i>Apoe</i> mouse forward primer. Sequence: 5'-AACCGCTTCTGGGATTACCT-3'	This work	NA
<i>Apoe</i> mouse reverse primer. Sequence: 5'-TCCGTCATAGTGTCCTCCATC-3'	This work	NA
<i>C1qb</i> mouse forward primer. Sequence: 5'-ACCAGGCACTCCAGGGATAA-3'	This work	NA
<i>C1qb</i> mouse reverse primer. Sequence: 5'-CCCTTTCTCTCCAAACTCACC-3'	This work	NA
<i>Collal</i> mouse forward primer. Sequence: 5'- CTGGCAAGAAGGGAGATGA-3'	This work	NA
<i>Collal</i> mouse forward primer. Sequence: 5'- CACCATCCAAACCACTGAAA-3'	This work	NA
<i>Col1a2</i> mouse forward primer. Sequence: 5'-AGGTCTTCCTGGAGCTGATG-3'	This work	NA
<i>Colla2</i> mouse reverse primer. Sequence: 5'-ACCCACAGGGCCTTCTTTAC-3'	This work	NA
<i>Col3a1</i> mouse forward primer. Sequence: 5'- ACAGCAAATTCACTTACACAGTTC- 3'	This work	NA
<i>Col3a1</i> mouse reverse primer. Sequence: 5'-CTCATTGCCTTGCGTGTTT-3'	This work	NA
<i>Fn1</i> mouse forward primer. Sequence: 5'- AAGGTTCGGGAAGAGGTTGT-3	This work	NA
<i>Fn1</i> mouse reverse primer. Sequence: 5'-ACTCCTCTCCAATGGCGTAA-3'	This work	NA
<i>Gas6</i> mouse forward primer. Sequence: 5'-GGGAATGGATTTGCTACCTAC-3'	This work	NA

This work	NA
This work	NA
This work	NA
This work	NA
	This work

<i>Tgm2</i> mouse forward primer. Sequence: 5'-GGCACTGAGGACATCAACCT-3'	This work	NA
<i>Tgm2</i> mouse reverse primer. Sequence: 5'-AGGCACCCGCTGTACTTCT-3'	This work	NA
<i>Thbs1</i> mouse forward primer. Sequence: 5'-AAAGGTGTCCTGTCCCATCA-3'	This work	NA
<i>Thbs1</i> mouse reverse primer. Sequence: 5'-TCCACTCAGACCAGGGAGAC-3'	This work	NA
<i>Tnf</i> mouse forward primer. Sequence: 5'-TCTTCTCATTCCTGCTTGTGG-3'	This work	NA
<i>Tnf</i> mouse reverse primer. Sequence: 5'- GGTCTGGGCCATAGAACTGA-3'	This work	NA
<i>Uba52</i> mouse forward primer. Sequence: 5'-CCTGTCCGACTACAACATCCA-3'	This work	NA
<i>Uba52</i> mouse reverse primer. Sequence: 5'-TGTACTTCTGGGCAAGCTGA-3'	This work	NA
miRCURY LNA miRNA PCR Assay for miR-21-5p	Exiqon, Vedbaek, Denmark	#339306
miRCURY LNA miRNA PCR Assay for U6	Exiqon, Vedbaek, Denmark	#339306
Reagents for RNA isolation and reverse tra		<u> </u>
RNAPure, PeqGOLD	VWR, Ismaning,	#732-3312
	Germany	
Invitrogen TM SuperScript TM II Reverse	ThermoFisher	#18064014
Transcriptase	Scientific, Darmstadt,	
1	Germany	
Universal cDNA Synthesis Kit II (for microRNA PCR)	Exiqon, Vedbaek, Denmark	#339340
TruSeq Stranded mRNA Library Prep Kit	Illumina, San Diego, USA	RS-122-2101
Single Cell Sequencing Kit v 2.1	10x Genomics,	
	Pleasanton, California	
TruSeq small RNA Library Prep Kit	Illumina, San Diego, USA	RS-200-0012
Antibodies used for MACS/FACS		
rat anti-mouse CD16/CD32 (clone	BD Biosciences, San	#553142 (RRID:
2.4G2)	Jose, California	AB_394657)
Biotin-conjugated anti-CD45 (clone 30-	eBioscience/	#13-0451-82 (RRID:
F11)	Thermofisher	AB_466446)
	Scientific, Darmstadt,	
	Germany	
Biotin-conjugated anti-PDGFRA (clone	eBioscience/	#13-1401-82 (RRID:
APA5)	Thermofisher	AB_466607)
	Scientific, Darmstadt,	
	Germany	

		#25 1401 02 (DDID
anti-PDGFRA-PECy7 (clone APA5)	eBioscience/	#25-1401-82 (RRID:
	Thermofisher	AB_2573400)
	Scientific, Darmstadt,	
	Germany	
anti-CD105-PE (clone MJ7/18)	eBioscience/	#12-1051-82 (RRID:
	Thermofisher	AB_657524)
	Scientific, Darmstadt,	
	Germany	
anti-CD45-Alexa Fluor® 488 (clone 30-	Biolegend, San	#103121 (RRID:
F11)	Diego, California	AB_493532)
anti-CD11b-PE (clone M1/70)	BD Biosciences, San	#553311 (RRID:
	Jose, California	AB_394775)
anti-CD64-PE/Dazzle 594 (clone X54-	Biolegend, San	#139319 (RRID:
5/7.1)	Diego, California	AB_2566558)
anti-F4/80-PeCy7 (clone BM8)	eBioscience/	#25-4801-82 (RRID:
	Thermofisher	AB_469653)
	Scientific, Darmstadt,	11 D _107055)
	Germany	
Strontovidin Mioro Boods	Miltenyi Biotech,	#130-048-101
Streptavidin Micro Beads	-	#130-048-101
	Bergisch Gladbach,	
	Germany	
Antibodies/reagents for immunofluorescen	nce/immunonistocnemist	ry
anti-alpha smooth muscle actin (clone	Sigma, Taufkirchen,	#A2547 (RRID:
1A4; diluted 1:200 in 3% goat	Germany	AB_476701)
serum/PBS)		
anti-BrdU (diluted 1:100 in 3% goat	Abcam, Cambridge,	#AB6326 (RRID:
serum/PBS)	UK	AB_305426)
Anti-CD68 (diluted 1:100 in 3% goat	Abcam, Cambridge,	#AB222914
serum/PBS)	UK	
anti-MRC1 (diluted 1:100 in 3% goat	Abcam, Cambridge,	#AB64693 (RRID:
serum)	UK	AB_1523910)
· · · · · · · · · · · · · · · · · · ·		
anti-Vimentin (diluted 1:200 in 3% goat		
anti-Vimentin (diluted 1:200 in 3% goat serum/PBS)	Abcam, Cambridge,	#AB24525 (RRID:
serum/PBS)	Abcam, Cambridge, UK	#AB24525 (RRID: AB_778824)
serum/PBS) Invitrogen TM Goat anti-chicken IgY	Abcam, Cambridge, UK ThermoFisher	#AB24525 (RRID: AB_778824) A-11042 (RRID:
serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt,	#AB24525 (RRID: AB_778824)
serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100 in 0.1% Tween20/PBS)	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt, Germany	#AB24525 (RRID: AB_778824) A-11042 (RRID: AB_2534099)
serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-mouse IgG	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt, Germany ThermoFisher	#AB24525 (RRID: AB_778824) A-11042 (RRID: AB_2534099) A-11029 (RRID:
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serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-mouse IgG (H+L), Alexa Fluor® 488 (diluted 1:100 in 0.1% Tween20/PBS)	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany	#AB24525 (RRID: AB_778824) A-11042 (RRID: AB_2534099) A-11029 (RRID: AB_138404)
serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-mouse IgG (H+L), Alexa Fluor® 488 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-rabbit IgG	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany ThermoFisher	#AB24525 (RRID: AB_778824) A-11042 (RRID: AB_2534099) A-11029 (RRID: AB_138404) A-11036 (RRID: AB_
serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-mouse IgG (H+L), Alexa Fluor® 488 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-rabbit IgG (H+L), Alexa Fluor® 568 (diluted 1:100	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt,	#AB24525 (RRID: AB_778824) A-11042 (RRID: AB_2534099) A-11029 (RRID: AB_138404)
serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-mouse IgG (H+L), Alexa Fluor® 488 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-rabbit IgG (H+L), Alexa Fluor® 568 (diluted 1:100 in 0.1% Tween20/PBS)	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany	#AB24525 (RRID: AB_778824) A-11042 (RRID: AB_2534099) A-11029 (RRID: AB_138404) A-11036 (RRID: AB_ 10563566)
serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-mouse IgG (H+L), Alexa Fluor® 488 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-rabbit IgG (H+L), Alexa Fluor® 568 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-rat IgG (H+L),	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany ThermoFisher	#AB24525 (RRID: AB_778824) A-11042 (RRID: AB_2534099) A-11029 (RRID: AB_138404) A-11036 (RRID: AB_ 10563566) A-21247 (RRID:
serum/PBS) Invitrogen TM Goat anti-chicken IgY (H+L), Alexa Fluor® 594 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-mouse IgG (H+L), Alexa Fluor® 488 (diluted 1:100 in 0.1% Tween20/PBS) Invitrogen TM Goat anti-rabbit IgG (H+L), Alexa Fluor® 568 (diluted 1:100 in 0.1% Tween20/PBS)	Abcam, Cambridge, UK ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany ThermoFisher Scientific, Darmstadt, Germany	#AB24525 (RRID: AB_778824) A-11042 (RRID: AB_2534099) A-11029 (RRID: AB_138404) A-11036 (RRID: AB_ 10563566)

Invitrogen TM DAPI (4',6-diamidino-2-	Life Technologies/	#D1306 (RRID:
phenylindole, dihydrochloride)	Thermofisher	AB_2629482)
	Scientific, Darmstadt,	
	Germany	
Invitrogen TM SYTOX TM Green (diluted	Life Technologies/	#S7020
1:1000 in 0.1% Tween20/PBS)	Thermofisher	
	Scientific, Darmstadt,	
	Germany	
Invitrogen TM Wheat germ agglutinin,	Life Technologies/	#W32466
Alexa Fluor 647 conjugated (diluted	Thermofisher	
1:1000 in PBS)	Scientific, Darmstadt,	
	Germany	
Reagents for cell culture	Germany	
-	I	1
5-bromo-2'-deoxyuridine (Roche)	Merck Sigma	#10280879001
	Aldrich, Taufkirchen,	
	Germany	
RPMI 1640 Medium	Life Technologies/	#12633012
	Thermofisher	
	Scientific, Darmstadt,	
	Germany	
Recombinant murine M-CSF	Peprotech, Rocky	#315-02
	Hill, NJ	1010 02
Lipopolysaccharide (E. coli O55-B8)	Sigma Aldrich, Saint	#L2880
r r janit a a (i i i i i i janit a jan	Louis, Missouri	
LNA-antimiR-21-5p. Sequence: 5'-	Exiqon, Vedbaek,	#199900 (Batch no:
TCAGTCTGATAAGCT-3'	Denmark	172582)
LNA-antimiR-39-3p. Sequence: 5'-	Exiqon, Vedbaek,	#339147YCI0200562-
TGATTTACACCCGGTG-3'	Denmark	FFA
Lipofectamine RNAiMax	ThermoFisher	#13778100
	Scientific, Darmstadt,	#15776100
	Germany	#0100C
2-well chambered co-culture µ-slide	IBIDI, Munich,	#81806
	Germany	
Softwares		
DAVID bioinformatics tool	Huang et al ⁵⁶	v 6.8
DESeq2	Love et al ⁵⁷	v 2.11.40.2
Doublet Finder	McGinnis et al ⁵⁵	v 2.0.3
GoPlot		v 1.0.2
HISAT2	Kim et al ⁵⁸	v 2.1.0
iTALK	Wang et al ⁵⁹	
Metamorph	Molecular Devices,	v 7.10.1.161
•	San Jose, California	
scvelo	Bergen et al ⁶⁰	v 0.2.3
Seurat	Butler et al ⁵⁴	v 3.1.5
StringTie	Pertea et al ⁶¹	v 1.3.6
Sumgric		v 1.J.U

StringTie merge	Pertea et al ⁶¹	v 1.3.6
Velocyto	Manno et al ⁶²	v 0.6
Vevolab	Fujifilm Visual	
	Sonics, Toronto,	
	Canada	
VevoStrain	Fujifilm Visual	
	Sonics, Toronto,	
	Canada	

Gene_name	Fold_change(log2)	Cell_type	Group_comparison
Spp1	2.29	MP	WT TAC vs WT Sham
Chil3	2.15	MP	WT TAC vs WT Sham
Il1b	2.02	MP	WT TAC vs WT Sham
Plac8	1.73	MP	WT TAC vs WT Sham
Mb	-1.69	MP	WT TAC vs WT Sham
Cox6a2	-1.65	MP	WT TAC vs WT Sham
Fn1	1.62	MP	WT TAC vs WT Sham
Thbs1	1.61	MP	WT TAC vs WT Sham
Srgn	1.59	MP	WT TAC vs WT Sham
Lgals3	1.56	MP	WT TAC vs WT Sham
Ccl8	1.50	MP	WT TAC vs WT Sham
Atp2a2	-1.48	MP	WT TAC vs WT Sham
Pln	-1.48	MP	WT TAC vs WT Sham
Cd36	-1.46	MP	WT TAC vs WT Sham
Actc1	-1.44	MP	WT TAC vs WT Sham
Arg1	1.37	MP	WT TAC vs WT Sham
mt-Atp6	-1.37	MP	WT TAC vs WT Sham
Tgfbi	1.37	MP	WT TAC vs WT Sham
Fabp3	-1.36	MP	WT TAC vs WT Sham
Mt2	1.34	MP	WT TAC vs WT Sham
S100a11	1.33	MP	WT TAC vs WT Sham
Slc25a4	-1.32	MP	WT TAC vs WT Sham
Anxa2	1.32	MP	WT TAC vs WT Sham
Нр	1.30	MP	WT TAC vs WT Sham
Ckm	-1.27	MP	WT TAC vs WT Sham
Ccl2	1.27	MP	WT TAC vs WT Sham
Cox7a1	-1.25	MP	WT TAC vs WT Sham
Cxcl2	1.25	MP	WT TAC vs WT Sham
Plaur	1.22	MP	WT TAC vs WT Sham
Ly6c2	1.22	MP	WT TAC vs WT Sham
Pkm	1.18	MP	WT TAC vs WT Sham
Cox8b	-1.18	MP	WT TAC vs WT Sham
Lpl	-1.18	MP	WT TAC vs WT Sham
Eno1	1.17	MP	WT TAC vs WT Sham
Vim	1.16	MP	WT TAC vs WT Sham

 Table II. Top significantly deregulated genes after miR-21 deletion in macrophages

1 15	MD	WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
1.10	MP	WT TAC vs WT Sham
-1.10	MP	WT TAC vs WT Sham
-1.10	MP	WT TAC vs WT Sham
1.09	MP	WT TAC vs WT Sham
1.09	MP	WT TAC vs WT Sham
1.09	MP	WT TAC vs WT Sham
1.08	MP	WT TAC vs WT Sham
-1.08	MP	WT TAC vs WT Sham
1.08	MP	WT TAC vs WT Sham
1.08	MP	WT TAC vs WT Sham
1.07	MP	WT TAC vs WT Sham
1.07	MP	WT TAC vs WT Sham
1.07	MP	WT TAC vs WT Sham
-1.06	MP	WT TAC vs WT Sham
-1.05	MP	WT TAC vs WT Sham
1.04	MP	WT TAC vs WT Sham
-1.04	MP	WT TAC vs WT Sham
1.03	MP	WT TAC vs WT Sham
-1.02	MP	WT TAC vs WT Sham
1.02	MP	WT TAC vs WT Sham
-1.00	MP	WT TAC vs WT Sham
-1.00	MP	WT TAC vs WT Sham
1.00	MP	WT TAC vs WT Sham
0.99	MP	WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
		WT TAC vs WT Sham
	$\begin{array}{c} -1.10 \\ -1.10 \\ 1.09 \\ 1.09 \\ 1.09 \\ 1.09 \\ 1.08 \\ -1.08 \\ 1.08 \\ 1.08 \\ 1.08 \\ 1.08 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.07 \\ 1.00 \\ -1.00 \\ 1.00 \\ 1.00 \\ 1.00 \end{array}$	1.15 MP -1.12 MP 1.12 MP 1.11 MP -1.11 MP 1.11 MP 1.11 MP 1.11 MP 1.10 MP 1.10 MP 1.10 MP 1.10 MP 1.10 MP 1.09 MP 1.09 MP 1.09 MP 1.08 MP 1.08 MP 1.07 MP 1.04 MP 1.05 MP 1.04 MP 1.03 MP 1.00 MP 1.00 MP 1.00 MP 0.99 MP 0.99 MP 0.99 MP 0.99 <t< td=""></t<>

Cd14	0.95	MP	WT TAC vs WT Sham
Ptpn1	0.95	MP	WT TAC vs WT Sham
Eno3	-0.93	MP	WT TAC vs WT Sham
Crip2	-0.93	MP	WT TAC vs WT Sham
Emb	0.92	MP	WT TAC vs WT Sham
Clec4d	0.91	MP	WT TAC vs WT Sham
Vcan	0.91	MP	WT TAC vs WT Sham
Eif4a1	0.91	MP	WT TAC vs WT Sham
Apoe	-0.91	MP	WT TAC vs WT Sham
Тсар	-0.91	MP	WT TAC vs WT Sham
Slpi	0.89	MP	WT TAC vs WT Sham
Clec4e	0.88	MP	WT TAC vs WT Sham
Sirpb1c	0.88	MP	WT TAC vs WT Sham
Zbtb20	-0.87	MP	WT TAC vs WT Sham
Ldha	0.87	MP	WT TAC vs WT Sham
Cstb	0.86	MP	WT TAC vs WT Sham
Hrc	-0.85	MP	WT TAC vs WT Sham
Cltc	-0.85	MP	WT TAC vs WT Sham
Ctsd	0.84	MP	WT TAC vs WT Sham
Mgl2	-0.84	MP	WT TAC vs WT Sham
Msrb1	0.84	MP	WT TAC vs WT Sham
Tspo	0.84	MP	WT TAC vs WT Sham
Ltc4s	-0.83	MP	WT TAC vs WT Sham
Nfkbia	0.83	MP	WT TAC vs WT Sham
Hsp90aa1	0.82	MP	WT TAC vs WT Sham
Hmox1	0.82	MP	WT TAC vs WT Sham
Napsa	0.82	MP	WT TAC vs WT Sham
Gm10076	0.81	MP	WT TAC vs WT Sham
Xbp1	0.81	MP	WT TAC vs WT Sham
Tmsb10	0.81	MP	WT TAC vs WT Sham
Mdh1	-0.81	MP	WT TAC vs WT Sham
Sptbn1	-0.81	MP	WT TAC vs WT Sham
Ndufa5	-0.80	MP	WT TAC vs WT Sham
Taldo1	0.80	MP	WT TAC vs WT Sham
Fcgr1	0.80	MP	WT TAC vs WT Sham
Pim1	0.80	MP	WT TAC vs WT Sham
mt-Rnr1	0.79	MP	WT TAC vs WT Sham

Prdx6	0.79	MP	WT TAC ve WT Shom
			WT TAC vs WT Sham
Slc16a3	0.77	MP	WT TAC vs WT Sham
Msr1	0.77	MP	WT TAC vs WT Sham
Ifitm1	0.76	MP	WT TAC vs WT Sham
Etfb	-0.76	MP	WT TAC vs WT Sham
Kdr	-0.75	MP	WT TAC vs WT Sham
S100a10	0.75	MP	WT TAC vs WT Sham
Bcl2a1d	0.75	MP	WT TAC vs WT Sham
Pf4	-0.75	MP	WT TAC vs WT Sham
Ctsz	0.75	MP	WT TAC vs WT Sham
Fxyd2	-0.75	MP	WT TAC vs WT Sham
Hpgd	-0.75	MP	WT TAC vs WT Sham
Bcl2a1b	0.74	MP	WT TAC vs WT Sham
AA467197	0.74	MP	WT TAC vs WT Sham
Qk	-0.74	MP	WT TAC vs WT Sham
Cdkn1a	0.74	MP	WT TAC vs WT Sham
Ltb4r1	0.74	MP	WT TAC vs WT Sham
Pgam1	0.73	MP	WT TAC vs WT Sham
Rpl10-ps3	-0.73	MP	WT TAC vs WT Sham
F630028O10Rik	-0.72	MP	WT TAC vs WT Sham
Ass1	0.72	MP	WT TAC vs WT Sham
Fcgr3	0.72	MP	WT TAC vs WT Sham
Uqcr11	-0.72	MP	WT TAC vs WT Sham
Ctsl	0.72	MP	WT TAC vs WT Sham
Hexb	0.71	MP	WT TAC vs WT Sham
Serinc3	-0.71	MP	WT TAC vs WT Sham
Pgk1	0.71	MP	WT TAC vs WT Sham
mt-Rnr2	0.71	MP	WT TAC vs WT Sham
Dpysl2	-0.71	MP	WT TAC vs WT Sham
Cryab	-0.71	MP	WT TAC vs WT Sham
Gm11808	-0.71	MP	WT TAC vs WT Sham
Eif5a	0.70	MP	WT TAC vs WT Sham
Slfn2	0.70	MP	WT TAC vs WT Sham
Gda	0.69	MP	WT TAC vs WT Sham
Itgb2	0.69	MP	WT TAC vs WT Sham
Cytip	0.69	MP	WT TAC vs WT Sham
Ech1	-0.69	MP	WT TAC vs WT Sham

Pin2 0.69 MP WT TAC vs WT Sham Adrb2 -0.69 MP WT TAC vs WT Sham Fabp4 -0.68 MP WT TAC vs WT Sham Anxa1 0.68 MP WT TAC vs WT Sham Mtss1 -0.68 MP WT TAC vs WT Sham Cavin2 -0.68 MP WT TAC vs WT Sham Des -0.67 MP WT TAC vs WT Sham Gngt2 0.67 MP WT TAC vs WT Sham Gngt2 0.67 MP WT TAC vs WT Sham Rps27rt -0.67 MP WT TAC vs WT Sham Samsn1 0.67 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Samsn1 0.66 MP WT TAC vs WT Sham Wwp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Ryr1 -0.66 MP WT TAC vs WT Sham Guepp -0.66 MP WT TAC vs WT Sham	E 21	0.00	MD	
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Fabp4 -0.68 MP WT TAC vs WT Sham Anxa1 0.68 MP WT TAC vs WT Sham Mtss1 -0.68 MP WT TAC vs WT Sham Cavin2 -0.68 MP WT TAC vs WT Sham Des -0.67 MP WT TAC vs WT Sham Gngt2 0.67 MP WT TAC vs WT Sham Gngt2 0.67 MP WT TAC vs WT Sham Pgam2 -0.66 MP WT TAC vs WT Sham Samsn1 0.67 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Myp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Ryr1 0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Selenop -0.66 MP WT TAC vs WT Sham Lyve1 -0.65 MP WT TAC vs WT Sham				
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Cavin2 0.68 MP WT TAC vs WT Sham Des 0.68 MP WT TAC vs WT Sham Tmcc1 0.67 MP WT TAC vs WT Sham Gng12 0.67 MP WT TAC vs WT Sham Pgam2 0.67 MP WT TAC vs WT Sham Pgam2 -0.67 MP WT TAC vs WT Sham Samsn1 0.67 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Tcf4 -0.66 MP WT TAC vs WT Sham Wwp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Selenop -0.66 MP WT TAC vs WT Sham Lyve1 -0.65 MP WT TAC vs WT Sham	Anxa1	0.68		
Des 0.68 MP WT TAC vs WT Sham Tmcc1 -0.67 MP WT TAC vs WT Sham Gngt2 0.67 MP WT TAC vs WT Sham Rps27rt -0.67 MP WT TAC vs WT Sham Pgam2 -0.67 MP WT TAC vs WT Sham Samsn1 0.67 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Mcf2d -0.66 MP WT TAC vs WT Sham Mcf2d -0.66 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Wwp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Genop -0.66 MP WT TAC vs WT Sham Marcemp1 0.66 MP WT TAC vs WT Sham Marcemp1 0.65 MP WT TAC vs WT Sham Marcemp1 0.65 MP WT TAC vs WT Sham	Mtss1	-0.68		
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Bps27rt -0.67 MP WT TAC vs WT Sham Pgam2 -0.67 MP WT TAC vs WT Sham Samsn1 0.67 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Tcf4 -0.66 MP WT TAC vs WT Sham Wwp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Il4ra 0.66 MP WT TAC vs WT Sham Aprt 0.66 MP WT TAC vs WT Sham Igm2 0.66 MP WT TAC vs WT Sham Mcemp1 0.66 MP WT TAC vs WT Sham Mafe 0.65 MP WT TAC vs WT Sham Selenop -0.66 MP WT TAC vs WT Sham Lyve1 -0.65 MP WT TAC vs WT Sham Lyve1 -0.65 MP WT TAC vs WT Sham Idh2 -0.65 MP WT TAC vs WT Sham	Tmcc1	-0.67	MP	WT TAC vs WT Sham
Pgam2 -0.67 MP WT TAC vs WT Sham Samsn1 0.67 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Tcf4 -0.66 MP WT TAC vs WT Sham Wwp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Il4ra 0.66 MP WT TAC vs WT Sham Aprt 0.66 MP WT TAC vs WT Sham Tgm2 0.66 MP WT TAC vs WT Sham Mcemp1 0.66 MP WT TAC vs WT Sham Mecmp1 0.66 MP WT TAC vs WT Sham Mecmp1 0.66 MP WT TAC vs WT Sham Marf 0.65 MP WT TAC vs WT Sham Lyve1 -0.65 MP WT TAC vs WT Sham Lilr4b 0.65 MP WT TAC vs WT Sham Idh2 -0.65 MP WT TAC vs WT Sham Igfbp4 -0.65 MP WT TAC vs WT Sham	Gngt2	0.67	MP	WT TAC vs WT Sham
Samsn1 0.67 MP WT TAC vs WT Sham Mef2c -0.66 MP WT TAC vs WT Sham Tcf4 -0.66 MP WT TAC vs WT Sham Wwp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Il4ra 0.66 MP WT TAC vs WT Sham Aprt 0.66 MP WT TAC vs WT Sham Tgm2 0.66 MP WT TAC vs WT Sham Mcemp1 0.66 MP WT TAC vs WT Sham Mcemp1 0.66 MP WT TAC vs WT Sham Mcemp1 0.66 MP WT TAC vs WT Sham Mecop1 0.66 MP WT TAC vs WT Sham Selenop -0.65 MP WT TAC vs WT Sham Lyve1 -0.65 MP WT TAC vs WT Sham Lilr4b 0.65 MP WT TAC vs WT Sham Idf13 0.65 MP WT TAC vs WT Sham Igfp4 -0.65 MP WT TAC vs WT Sham	Rps27rt	-0.67	MP	WT TAC vs WT Sham
Mef2c -0.66 MP WT TAC vs WT Sham Tcf4 -0.66 MP WT TAC vs WT Sham Wwp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Il4ra 0.66 MP WT TAC vs WT Sham Aprt 0.66 MP WT TAC vs WT Sham Tgm2 0.66 MP WT TAC vs WT Sham Mcemp1 0.66 MP WT TAC vs WT Sham Meremp1 0.66 MP WT TAC vs WT Sham Selenop -0.66 MP WT TAC vs WT Sham Manf 0.65 MP WT TAC vs WT Sham Lyve1 -0.65 MP WT TAC vs WT Sham Lilr4b 0.65 MP WT TAC vs WT Sham Idh2 -0.65 MP WT TAC vs WT Sham Igfbp4 -0.65 MP WT TAC vs WT Sham Igrbp4 -0.65 MP WT TAC vs WT Sham Fh12 -0.64 MP WT TAC vs WT Sham	Pgam2	-0.67	MP	WT TAC vs WT Sham
Tcf4 -0.66 MP WT TAC vs WT Sham Wwp1 -0.66 MP WT TAC vs WT Sham Ryr2 -0.66 MP WT TAC vs WT Sham Il4ra 0.66 MP WT TAC vs WT Sham Aprt 0.66 MP WT TAC vs WT Sham Tgm2 0.66 MP WT TAC vs WT Sham Mcemp1 0.66 MP WT TAC vs WT Sham Selenop -0.66 MP WT TAC vs WT Sham Manf 0.65 MP WT TAC vs WT Sham Lyve1 -0.65 MP WT TAC vs WT Sham BC005537 -0.65 MP WT TAC vs WT Sham Lilr4b 0.65 MP WT TAC vs WT Sham Idh2 -0.65 MP WT TAC vs WT Sham Igfbp4 -0.65 MP WT TAC vs WT Sham Ier3 0.65 MP WT TAC vs WT Sham Fh12 -0.64 MP WT TAC vs WT Sham Obscn -0.64 MP WT TAC vs WT Sham Myaa6c 0.64 MP WT TAC vs WT Sham	Samsn1	0.67	MP	WT TAC vs WT Sham
Wwp1-0.66MPWT TAC vs WT ShamRyr2-0.66MPWT TAC vs WT ShamIl4ra0.66MPWT TAC vs WT ShamAprt0.66MPWT TAC vs WT ShamTgm20.66MPWT TAC vs WT ShamMcemp10.66MPWT TAC vs WT ShamSelenop-0.66MPWT TAC vs WT ShamManf0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Mef2c	-0.66	MP	WT TAC vs WT Sham
Ryr2-0.66MPWT TAC vs WT Sham114ra0.66MPWT TAC vs WT ShamAprt0.66MPWT TAC vs WT ShamTgm20.66MPWT TAC vs WT ShamMcemp10.66MPWT TAC vs WT ShamSelenop-0.66MPWT TAC vs WT ShamManf0.65MPWT TAC vs WT ShamLyve1-0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Tcf4	-0.66	MP	WT TAC vs WT Sham
Il4ra0.66MPWT TAC vs WT ShamAprt0.66MPWT TAC vs WT ShamTgm20.66MPWT TAC vs WT ShamMcemp10.66MPWT TAC vs WT ShamSelenop-0.66MPWT TAC vs WT ShamManf0.65MPWT TAC vs WT ShamLyve1-0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Wwp1	-0.66	MP	WT TAC vs WT Sham
Aprt0.66MPWT TAC vs WT ShamTgm20.66MPWT TAC vs WT ShamMcemp10.66MPWT TAC vs WT ShamSelenop-0.66MPWT TAC vs WT ShamManf0.65MPWT TAC vs WT ShamLyve1-0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Ryr2	-0.66	MP	WT TAC vs WT Sham
Tgm20.66MPWT TAC vs WT ShamMcemp10.66MPWT TAC vs WT ShamSelenop-0.66MPWT TAC vs WT ShamManf0.65MPWT TAC vs WT ShamLyve1-0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Il4ra	0.66	MP	WT TAC vs WT Sham
Mcemp10.66MPWT TAC vs WT ShamSelenop-0.66MPWT TAC vs WT ShamManf0.65MPWT TAC vs WT ShamLyve1-0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamNfil30.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObsen-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMadafe0.64MPWT TAC vs WT Sham	Aprt	0.66	MP	WT TAC vs WT Sham
Selenop-0.66MPWT TAC vs WT ShamManf0.65MPWT TAC vs WT ShamLyve1-0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObsen-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Tgm2	0.66	MP	WT TAC vs WT Sham
Manf0.65MPWT TAC vs WT ShamLyve1-0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamNfil30.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Mcemp1	0.66	MP	WT TAC vs WT Sham
Lyve1-0.65MPWT TAC vs WT ShamBC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamNfil30.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT Shamler30.65MPWT TAC vs WT ShamRps2-ps10-0.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Selenop	-0.66	MP	WT TAC vs WT Sham
BC005537-0.65MPWT TAC vs WT ShamLilr4b0.65MPWT TAC vs WT ShamNfil30.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamRps2-ps10-0.65MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Manf	0.65	MP	WT TAC vs WT Sham
Lilr4b0.65MPWT TAC vs WT ShamNfil30.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamRps2-ps10-0.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Lyve1	-0.65	MP	WT TAC vs WT Sham
Nfil30.65MPWT TAC vs WT ShamIdh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamRps2-ps10-0.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	BC005537	-0.65	MP	WT TAC vs WT Sham
Idh2-0.65MPWT TAC vs WT ShamIgfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamRps2-ps10-0.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Lilr4b	0.65	MP	WT TAC vs WT Sham
Igfbp4-0.65MPWT TAC vs WT ShamIer30.65MPWT TAC vs WT ShamRps2-ps10-0.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Nfil3	0.65	MP	WT TAC vs WT Sham
Ier30.65MPWT TAC vs WT ShamRps2-ps10-0.65MPWT TAC vs WT ShamFh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Idh2	-0.65	MP	WT TAC vs WT Sham
Rps2-ps10-0.65MPWT TAC vs WT ShamFhl2-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Igfbp4	-0.65	MP	WT TAC vs WT Sham
Fh12-0.64MPWT TAC vs WT ShamObscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Ier3	0.65	MP	WT TAC vs WT Sham
Obscn-0.64MPWT TAC vs WT ShamMs4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Rps2-ps10	-0.65	MP	WT TAC vs WT Sham
Ms4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Fhl2	-0.64	MP	WT TAC vs WT Sham
Ms4a6c0.64MPWT TAC vs WT ShamRaph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	Obscn	-0.64	MP	
Raph1-0.64MPWT TAC vs WT ShamMyom1-0.64MPWT TAC vs WT Sham	-		1	WT TAC vs WT Sham
Myom1 -0.64 MP WT TAC vs WT Sham				
	Myom1			
	Emilin2	0.64	MP	WT TAC vs WT Sham

Plbd1	0.63	MP	WT TAC vs WT Sham
Stard8	-0.63	MP	WT TAC vs WT Sham
Arpc1b	0.62	MP	WT TAC vs WT Sham
Dmkn	0.62	MP	WT TAC vs WT Sham
Slc25a5	0.62	MP	WT TAC vs WT Sham
Kctd12	-0.62	MP	WT TAC vs WT Sham
Grcc10	-0.62	MP	WT TAC vs WT Sham
Ndufa13	-0.62	MP	WT TAC vs WT Sham
Ndrg2	-0.62	MP	WT TAC vs WT Sham
Ndufb4	-0.62	MP	WT TAC vs WT Sham
Cd163	-0.62	MP	WT TAC vs WT Sham
Atp5g1	-0.62	MP	WT TAC vs WT Sham
Fxyd1	-0.62	MP	WT TAC vs WT Sham
H2-D1	0.61	MP	WT TAC vs WT Sham
Ndufb9	-0.61	MP	WT TAC vs WT Sham
F10	0.61	MP	WT TAC vs WT Sham
Mif	0.61	MP	WT TAC vs WT Sham
Arg1	-1.28	MP	miR-21 cKO TAC vs WT TAC
Thbs1	-1.26	MP	miR-21 cKO TAC vs WT TAC
Mt2	-1.20	MP	miR-21 cKO TAC vs WT TAC
Spp1	-1.14	MP	miR-21 cKO TAC vs WT TAC
Chil3	-1.10	MP	miR-21 cKO TAC vs WT TAC
S100a4	-1.06	MP	miR-21 cKO TAC vs WT TAC
Srgn	-1.05	MP	miR-21 cKO TAC vs WT TAC
Plaur	-1.05	MP	miR-21 cKO TAC vs WT TAC
S100a6	-1.01	MP	miR-21 cKO TAC vs WT TAC
Rps28	-0.96	MP	miR-21 cKO TAC vs WT TAC
Mt1	-0.90	MP	miR-21 cKO TAC vs WT TAC
S100a11	-0.89	MP	miR-21 cKO TAC vs WT TAC
H2-Eb1	0.88	MP	miR-21 cKO TAC vs WT TAC
Anxa2	-0.87	MP	miR-21 cKO TAC vs WT TAC
Cd72	0.86	MP	miR-21 cKO TAC vs WT TAC
Rps29	-0.82	MP	miR-21 cKO TAC vs WT TAC
Il1b	-0.82	MP	miR-21 cKO TAC vs WT TAC
Osm	-0.79	MP	miR-21 cKO TAC vs WT TAC
Gm10076	-0.78	MP	miR-21 cKO TAC vs WT TAC
Igfbp7	-0.78	MP	miR-21 cKO TAC vs WT TAC

0.78	MD	miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
0.74		miR-21 cKO TAC vs WT TAC
-0.74	MP	miR-21 cKO TAC vs WT TAC
-0.73	MP	miR-21 cKO TAC vs WT TAC
-0.71	MP	miR-21 cKO TAC vs WT TAC
-0.71	MP	miR-21 cKO TAC vs WT TAC
-0.71	MP	miR-21 cKO TAC vs WT TAC
-0.70	MP	miR-21 cKO TAC vs WT TAC
-0.70	MP	miR-21 cKO TAC vs WT TAC
0.70	MP	miR-21 cKO TAC vs WT TAC
0.69	MP	miR-21 cKO TAC vs WT TAC
0.69	MP	miR-21 cKO TAC vs WT TAC
0.69	MP	miR-21 cKO TAC vs WT TAC
-0.68	MP	miR-21 cKO TAC vs WT TAC
-0.68	MP	miR-21 cKO TAC vs WT TAC
-0.67	MP	miR-21 cKO TAC vs WT TAC
-0.67	MP	miR-21 cKO TAC vs WT TAC
-0.66	MP	miR-21 cKO TAC vs WT TAC
-0.66	MP	miR-21 cKO TAC vs WT TAC
-0.66	MP	miR-21 cKO TAC vs WT TAC
-0.66	MP	miR-21 cKO TAC vs WT TAC
-0.66	MP	miR-21 cKO TAC vs WT TAC
0.64	MP	miR-21 cKO TAC vs WT TAC
-0.63	MP	miR-21 cKO TAC vs WT TAC
0.63	MP	miR-21 cKO TAC vs WT TAC
-0.63	MP	miR-21 cKO TAC vs WT TAC
	MP	miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
		miR-21 cKO TAC vs WT TAC
-0.61	MP	miR-21 cKO TAC vs WT TAC
	-0.73 -0.71 -0.71 -0.71 -0.70 -0.70 0.70 0.69 0.69 0.69 0.69 -0.68 -0.67 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.66 -0.63 0.63 -0.63 0.62	-0.77 MP 0.77 MP -0.77 MP -0.76 MP -0.76 MP -0.76 MP -0.74 MP 0.74 MP 0.74 MP -0.73 MP -0.71 MP -0.71 MP -0.71 MP -0.70 MP -0.70 MP -0.70 MP 0.69 MP 0.69 MP 0.69 MP 0.63 MP -0.66 MP -0.66 MP -0.63 MP 0.63 MP 0.63 MP 0.63 MP 0.62 MP

AW112010	0.61	MP	miR-21 cKO TAC vs WT TAC
Usmg5	-0.61	MP	miR-21 cKO TAC vs WT TAC
Actb	-0.61	MP	miR-21 cKO TAC vs WT TAC
Fcgr4	0.61	MP	miR-21 cKO TAC vs WT TAC
Xbp1	-0.61	MP	miR-21 cKO TAC vs WT TAC
Hmox1	-0.61	MP	miR-21 cKO TAC vs WT TAC
Rps21	-0.61	MP	miR-21 cKO TAC vs WT TAC
Ccl4	0.61	MP	miR-21 cKO TAC vs WT TAC
Rpl37	-0.60	MP	miR-21 cKO TAC vs WT TAC
Mrpl52	-0.60	MP	miR-21 cKO TAC vs WT TAC
Hif1a	-0.60	MP	miR-21 cKO TAC vs WT TAC
Rpl37a	-0.60	MP	miR-21 cKO TAC vs WT TAC
Atp5k	-0.59	MP	miR-21 cKO TAC vs WT TAC
Slpi	-0.58	MP	miR-21 cKO TAC vs WT TAC
Dmkn	-0.58	MP	miR-21 cKO TAC vs WT TAC
Нр	-0.58	MP	miR-21 cKO TAC vs WT TAC
Rpl35	-0.57	MP	miR-21 cKO TAC vs WT TAC
Clec7a	-0.57	MP	miR-21 cKO TAC vs WT TAC
Gm4149	-0.55	MP	miR-21 cKO TAC vs WT TAC
Lair1	0.55	MP	miR-21 cKO TAC vs WT TAC
Mif	-0.55	MP	miR-21 cKO TAC vs WT TAC
Ckb	0.55	MP	miR-21 cKO TAC vs WT TAC
C1qc	0.55	MP	miR-21 cKO TAC vs WT TAC
Rpl39	-0.55	MP	miR-21 cKO TAC vs WT TAC
Gm34084	0.54	MP	miR-21 cKO TAC vs WT TAC
Rpl36	-0.54	MP	miR-21 cKO TAC vs WT TAC
Clec4n	-0.54	MP	miR-21 cKO TAC vs WT TAC
Ldha	-0.53	MP	miR-21 cKO TAC vs WT TAC
G530011006Rik	0.53	MP	miR-21 cKO TAC vs WT TAC
Rps27rt	-0.53	MP	miR-21 cKO TAC vs WT TAC
Cytip	-0.53	MP	miR-21 cKO TAC vs WT TAC
Slc16a3	-0.52	MP	miR-21 cKO TAC vs WT TAC
Klf9	-0.52	MP	miR-21 cKO TAC vs WT TAC
Ass1	-0.51	MP	miR-21 cKO TAC vs WT TAC
Rpl41	-0.51	MP	miR-21 cKO TAC vs WT TAC
Ltb4r1	-0.51	MP	miR-21 cKO TAC vs WT TAC
C3ar1	0.50	MP	miR-21 cKO TAC vs WT TAC

Cox7c	-0.50	MP	miR-21 cKO TAC vs WT TAC
Ifitm1	-0.50	MP	miR-21 cKO TAC vs WT TAC
Il1rn	-0.50	MP	miR-21 cKO TAC vs WT TAC
Lyz1	0.50	MP	miR-21 cKO TAC vs WT TAC
Msr1	-0.50	MP	miR-21 cKO TAC vs WT TAC
Nppa	0.49	MP	miR-21 cKO TAC vs WT TAC
Tgm2	-0.49	MP	miR-21 cKO TAC vs WT TAC
Socs3	-0.49	MP	miR-21 cKO TAC vs WT TAC
Emilin2	-0.49	MP	miR-21 cKO TAC vs WT TAC
Stmn1	0.48	MP	miR-21 cKO TAC vs WT TAC
Kdm6b	-0.48	MP	miR-21 cKO TAC vs WT TAC
Pgk1	-0.48	MP	miR-21 cKO TAC vs WT TAC
Atp5e	-0.48	MP	miR-21 cKO TAC vs WT TAC
Clec4a1	0.48	MP	miR-21 cKO TAC vs WT TAC
H2-Q7	0.48	MP	miR-21 cKO TAC vs WT TAC
C1qa	0.47	MP	miR-21 cKO TAC vs WT TAC
Cstb	-0.47	MP	miR-21 cKO TAC vs WT TAC
Mgl2	0.47	MP	miR-21 cKO TAC vs WT TAC
Capg	-0.47	MP	miR-21 cKO TAC vs WT TAC
Cxcl16	0.47	MP	miR-21 cKO TAC vs WT TAC
Emb	-0.47	MP	miR-21 cKO TAC vs WT TAC
Nfkbiz	0.47	MP	miR-21 cKO TAC vs WT TAC
F10	-0.47	MP	miR-21 cKO TAC vs WT TAC
Fkbp5	-0.46	MP	miR-21 cKO TAC vs WT TAC
Ccl3	0.46	MP	miR-21 cKO TAC vs WT TAC
Tomm7	-0.46	MP	miR-21 cKO TAC vs WT TAC
Uck2	-0.46	MP	miR-21 cKO TAC vs WT TAC
Rps26	-0.45	MP	miR-21 cKO TAC vs WT TAC
Zmynd15	0.45	MP	miR-21 cKO TAC vs WT TAC
Pim1	-0.45	MP	miR-21 cKO TAC vs WT TAC
Ddit4	-0.45	MP	miR-21 cKO TAC vs WT TAC
Jun	0.45	MP	miR-21 cKO TAC vs WT TAC
Msrb1	-0.45	MP	miR-21 cKO TAC vs WT TAC
Crip1	-0.45	MP	miR-21 cKO TAC vs WT TAC
Mcemp1	-0.45	MP	miR-21 cKO TAC vs WT TAC
Samsn1	-0.45	MP	miR-21 cKO TAC vs WT TAC
Marcks	0.45	MP	miR-21 cKO TAC vs WT TAC

Marcksl1	0.45	MP	miR-21 cKO TAC vs WT TAC
Adam8	-0.44	MP	miR-21 cKO TAC vs WT TAC
Stk17b	-0.44	MP	miR-21 cKO TAC vs WT TAC
Cend3	-0.44	MP	miR-21 cKO TAC vs WT TAC
	0.44	MP	
Adgre1	-0.44	MP	miR-21 cKO TAC vs WT TAC miR-21 cKO TAC vs WT TAC
Fosl2			
Slc39a1	-0.44	MP	miR-21 cKO TAC vs WT TAC
Lgals3	-0.44	MP	miR-21 cKO TAC vs WT TAC
Ndufa3	-0.43	MP	miR-21 cKO TAC vs WT TAC
2010107E04Rik	-0.43	MP	miR-21 cKO TAC vs WT TAC
Tmem176a	0.43	MP	miR-21 cKO TAC vs WT TAC
Bcl2a1d	-0.43	MP	miR-21 cKO TAC vs WT TAC
Trem1	-0.43	MP	miR-21 cKO TAC vs WT TAC
Nfkbia	-0.43	MP	miR-21 cKO TAC vs WT TAC
Gm1821	-0.43	MP	miR-21 cKO TAC vs WT TAC
Rpl37rt	-0.43	MP	miR-21 cKO TAC vs WT TAC
Ptpn1	-0.43	MP	miR-21 cKO TAC vs WT TAC
Ankrd1	-0.43	MP	miR-21 cKO TAC vs WT TAC
Napsa	-0.43	MP	miR-21 cKO TAC vs WT TAC
Cops9	-0.42	MP	miR-21 cKO TAC vs WT TAC
Kdr	0.42	MP	miR-21 cKO TAC vs WT TAC
mt-Nd1	0.42	MP	miR-21 cKO TAC vs WT TAC
Fosb	0.42	MP	miR-21 cKO TAC vs WT TAC
Fabp4	0.42	MP	miR-21 cKO TAC vs WT TAC
Cd93	0.41	MP	miR-21 cKO TAC vs WT TAC
Ch25h	0.41	MP	miR-21 cKO TAC vs WT TAC
Tmem258	-0.41	MP	miR-21 cKO TAC vs WT TAC
Snrpg	-0.41	MP	miR-21 cKO TAC vs WT TAC
mt-Atp6	0.41	MP	miR-21 cKO TAC vs WT TAC
Pgam1	-0.41	MP	miR-21 cKO TAC vs WT TAC
Irf8	0.40	MP	miR-21 cKO TAC vs WT TAC
Aldoa	-0.40	MP	miR-21 cKO TAC vs WT TAC
H1f0	0.40	MP	miR-21 cKO TAC vs WT TAC
Sem1	-0.40	MP	miR-21 cKO TAC vs WT TAC
Itm2b	0.40	MP	miR-21 cKO TAC vs WT TAC
Bst2	0.40	MP	miR-21 cKO TAC vs WT TAC
Lamp1	-0.39	MP	miR-21 cKO TAC vs WT TAC

Tmem176b	0.39	MP	miR-21 cKO TAC vs WT TAC
Lhfpl4	-0.39	MP	miR-21 cKO TAC vs WT TAC
AA467197	-0.39	MP	miR-21 cKO TAC vs WT TAC
Cdk2ap2	-0.39	MP	miR-21 cKO TAC vs WT TAC
mt-Cytb	0.39	MP	miR-21 cKO TAC vs WT TAC
Csrnp1	-0.39	MP	miR-21 cKO TAC vs WT TAC
Sdc4	-0.39	MP	miR-21 cKO TAC vs WT TAC
Lacc1	0.39	MP	miR-21 cKO TAC vs WT TAC
Aif1	0.39	MP	miR-21 cKO TAC vs WT TAC
Gatm	0.39	MP	miR-21 cKO TAC vs WT TAC
Fabp5	-0.39	MP	miR-21 cKO TAC vs WT TAC
Sirpb1c	-0.38	MP	miR-21 cKO TAC vs WT TAC
Hspa1a	0.38	MP	miR-21 cKO TAC vs WT TAC
Ccl2	-0.38	MP	miR-21 cKO TAC vs WT TAC
Acta1	-0.38	MP	miR-21 cKO TAC vs WT TAC
Ighm	0.38	MP	miR-21 cKO TAC vs WT TAC
Ms4a6d	-0.38	MP	miR-21 cKO TAC vs WT TAC
Fyb	0.37	MP	miR-21 cKO TAC vs WT TAC
Uqcr11	-0.37	MP	miR-21 cKO TAC vs WT TAC
Fam49b	-0.37	MP	miR-21 cKO TAC vs WT TAC
Pde4b	-0.37	MP	miR-21 cKO TAC vs WT TAC
Psmb9	0.37	MP	miR-21 cKO TAC vs WT TAC
Actg1	-0.37	MP	miR-21 cKO TAC vs WT TAC
Lуба	0.37	MP	miR-21 cKO TAC vs WT TAC
Fxyd5	-0.37	MP	miR-21 cKO TAC vs WT TAC
Rpl34	-0.37	MP	miR-21 cKO TAC vs WT TAC
Crem	-0.37	MP	miR-21 cKO TAC vs WT TAC
Mmp19	-0.37	MP	miR-21 cKO TAC vs WT TAC
Gm42418	-0.37	MP	miR-21 cKO TAC vs WT TAC
Evi2a	0.37	MP	miR-21 cKO TAC vs WT TAC
Slfn2	-0.36	MP	miR-21 cKO TAC vs WT TAC
Cebpb	-0.36	MP	miR-21 cKO TAC vs WT TAC
Ccl8	1.94	M2-like MP	WT TAC vs WT Sham
Spp1	1.83	M2-like MP	WT TAC vs WT Sham
Myl3	-1.83	M2-like MP	WT TAC vs WT Sham
Mt2	1.61	M2-like MP	WT TAC vs WT Sham
Mb	-1.56	M2-like MP	WT TAC vs WT Sham

1.50	
	M2-like MPWT TAC vs WT Sham
	M2-like MPWT TAC vs WT Sham
	M2-like MPWT TAC vs WT Sham
	M2-like MPWT TAC vs WT Sham
1.41	M2-like MPWT TAC vs WT Sham
-1.30	M2-like MPWT TAC vs WT Sham
-1.28	M2-like MPWT TAC vs WT Sham
-1.27	M2-like MPWT TAC vs WT Sham
1.26	M2-like MPWT TAC vs WT Sham
-1.21	M2-like MPWT TAC vs WT Sham
1.17	M2-like MPWT TAC vs WT Sham
1.17	M2-like MPWT TAC vs WT Sham
1.16	M2-like MPWT TAC vs WT Sham
1.15	M2-like MPWT TAC vs WT Sham
-1.15	M2-like MPWT TAC vs WT Sham
-1.13	M2-like MPWT TAC vs WT Sham
-1.12	M2-like MPWT TAC vs WT Sham
1.10	M2-like MPWT TAC vs WT Sham
1.10	M2-like MPWT TAC vs WT Sham
-1.09	M2-like MPWT TAC vs WT Sham
1.06	M2-like MPWT TAC vs WT Sham
-1.05	M2-like MPWT TAC vs WT Sham
1.05	M2-like MPWT TAC vs WT Sham
1.04	M2-like MPWT TAC vs WT Sham
1.04	M2-like MPWT TAC vs WT Sham
1.04	M2-like MPWT TAC vs WT Sham
-1.03	M2-like MPWT TAC vs WT Sham
-1.03	M2-like MPWT TAC vs WT Sham
-1.01	M2-like MPWT TAC vs WT Sham
-0.99	M2-like MPWT TAC vs WT Sham
0.98	M2-like MPWT TAC vs WT Sham
-0.97	M2-like MPWT TAC vs WT Sham
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0170	
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Ccl24 -0.94 M2-like MP WT TAC vs WT Sham Fn1 0.93 M2-like MP WT TAC vs WT Sham Ldhb -0.91 M2-like MP WT TAC vs WT Sham Eif4a1 0.88 M2-like MP WT TAC vs WT Sham Fcrls 0.87 M2-like MP WT TAC vs WT Sham Capg 0.87 M2-like MP WT TAC vs WT Sham Ms4a6d 0.87 M2-like MP WT TAC vs WT Sham Hrc -0.86 M2-like MP WT TAC vs WT Sham Hrc -0.86 M2-like MP WT TAC vs WT Sham Hlb 0.87 M2-like MP WT TAC vs WT Sham Ilb 0.86 M2-like MP WT TAC vs WT Sham Ilb 0.85 M2-like MP WT TAC vs WT Sham Ilb 0.84 M2-like MP WT TAC vs WT Sham Clec4n 0.83 M2-like MP WT TAC vs WT Sham Clgp -0.83 M2-like MP WT TAC vs WT Sham Capp -0.83 M2-like MP WT TAC vs WT Sham Cd14 0.83 M2-like MP WT TAC vs WT Sham Clc4 0.82 M2-like MP WT TAC vs WT Sham Crip2 -0.81 M2-like	
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Socs30.79M2-like MP WT TAC vs WT Sham	
Trem2 0.79 M2-like MP WT TAC vs WT Sham	
H2-K1 0.78 M2-like MPWT TAC vs WT Sham	
Cd52 0.78 M2-like MP WT TAC vs WT Sham	
Chil3 0.77 M2-like MPWT TAC vs WT Sham	
H2-D1 0.77 M2-like MPWT TAC vs WT Sham	
Vim 0.77 M2-like MP WT TAC vs WT Sham	
F630028O10Rik -0.77 M2-like MPWT TAC vs WT Sham	
Zbtb20 -0.77 M2-like MP WT TAC vs WT Sham	

Rpl10-ps3	-0.77	M2-like MPWT TAC vs WT Sham
Fcgr3	0.77	M2-like MPWT TAC vs WT Sham
Kdr	-0.75	M2-like MPWT TAC vs WT Sham
Srgn	0.75	M2-like MPWT TAC vs WT Sham
Eno1	0.74	M2-like MPWT TAC vs WT Sham
Gm10076	0.73	M2-like MPWT TAC vs WT Sham
Bcl2a1b	0.73	M2-like MPWT TAC vs WT Sham
Ms4a7	0.73	M2-like MPWT TAC vs WT Sham
Gm11808	-0.72	M2-like MPWT TAC vs WT Sham
Ctsl	0.72	M2-like MPWT TAC vs WT Sham
Cd68	0.72	M2-like MPWT TAC vs WT Sham
Zeb2	-0.72	M2-like MPWT TAC vs WT Sham
Actg1	0.72	M2-like MPWT TAC vs WT Sham
Pkm	0.71	M2-like MPWT TAC vs WT Sham
Cltc	-0.71	M2-like MPWT TAC vs WT Sham
Anxa2	0.71	M2-like MPWT TAC vs WT Sham
Sptbn1	-0.70	M2-like MPWT TAC vs WT Sham
Maf	-0.70	M2-like MPWT TAC vs WT Sham
S100a11	0.69	M2-like MPWT TAC vs WT Sham
Tspo	0.69	M2-like MPWT TAC vs WT Sham
Uqcr11	-0.69	M2-like MPWT TAC vs WT Sham
Ckb	0.69	M2-like MPWT TAC vs WT Sham
Hspa1a	0.69	M2-like MPWT TAC vs WT Sham
Ccl6	-0.68	M2-like MPWT TAC vs WT Sham
mt-Rnr2	0.68	M2-like MPWT TAC vs WT Sham
Mdh1	-0.67	M2-like MPWT TAC vs WT Sham
Irf2bp2	-0.67	M2-like MPWT TAC vs WT Sham
Des	-0.67	M2-like MPWT TAC vs WT Sham
Qk	-0.67	M2-like MPWT TAC vs WT Sham
Grn	0.67	M2-like MPWT TAC vs WT Sham
Fcgr1	0.66	M2-like MPWT TAC vs WT Sham
Wdr89	-0.65	M2-like MPWT TAC vs WT Sham
BC005537	-0.65	M2-like MPWT TAC vs WT Sham
Ndufa5	-0.65	M2-like MPWT TAC vs WT Sham
Rps2-ps10	-0.65	M2-like MPWT TAC vs WT Sham
Il4ra	0.64	M2-like MPWT TAC vs WT Sham
Ryr2	-0.64	M2-like MPWT TAC vs WT Sham

Pgam2	-0.64	M2-like MPWT TAC vs WT Sham
Cebpd	0.63	M2-like MPWT TAC vs WT Sham
Cd72	0.63	M2-like MPWT TAC vs WT Sham
Fhl2	-0.63	M2-like MPWT TAC vs WT Sham
Etfb	-0.63	M2-like MPWT TAC vs WT Sham
Msr1	0.63	M2-like MPWT TAC vs WT Sham
Fxyd2	-0.63	M2-like MPWT TAC vs WT Sham
Metrnl	0.62	M2-like MPWT TAC vs WT Sham
Ptpn1	0.62	M2-like MPWT TAC vs WT Sham
Ctsa	0.62	M2-like MPWT TAC vs WT Sham
Manf	0.62	M2-like MPWT TAC vs WT Sham
Tgfbi	0.62	M2-like MPWT TAC vs WT Sham
Eif5a	0.62	M2-like MPWT TAC vs WT Sham
Obscn	-0.61	M2-like MPWT TAC vs WT Sham
Zfp36l2	-0.61	M2-like MPWT TAC vs WT Sham
Adrb2	-0.61	M2-like MPWT TAC vs WT Sham
Lilr4b	0.61	M2-like MPWT TAC vs WT Sham
Ndufa13	-0.61	M2-like MPWT TAC vs WT Sham
Fth1	0.60	M2-like MPWT TAC vs WT Sham
Ndrg2	-0.60	M2-like MPWT TAC vs WT Sham
Trdn	-0.60	M2-like MPWT TAC vs WT Sham
Thbs1	0.60	M2-like MPWT TAC vs WT Sham
Rpl37rt	-0.60	M2-like MPWT TAC vs WT Sham
Efhd2	0.60	M2-like MPWT TAC vs WT Sham
Raph1	-0.59	M2-like MPWT TAC vs WT Sham
Map1lc3a	-0.59	M2-like MPWT TAC vs WT Sham
Plaur	0.59	M2-like MPWT TAC vs WT Sham
Dpysl2	-0.59	M2-like MPWT TAC vs WT Sham
Slc3a2	0.59	M2-like MPWT TAC vs WT Sham
Cavin2	-0.59	M2-like MPWT TAC vs WT Sham
Cd9	0.59	M2-like MPWT TAC vs WT Sham
Pdia3	0.59	M2-like MPWT TAC vs WT Sham
Grcc10	-0.59	M2-like MPWT TAC vs WT Sham
Cct5	0.59	M2-like MPWT TAC vs WT Sham
Сохбс	-0.58	M2-like MPWT TAC vs WT Sham
Ncl	0.58	M2-like MPWT TAC vs WT Sham
Ndufv3	-0.58	M2-like MPWT TAC vs WT Sham

B2m	0.58	M2-like MPWT TAC vs WT Sham
Tmcc1	-0.58	M2-like MPWT TAC vs WT Sham
Atp51	-0.58	M2-like MPWT TAC vs WT Sham
Ltc4s	-0.57	M2-like MPWT TAC vs WT Sham
Tuba4a	-0.57	M2-like MPWT TAC vs WT Sham
Ndufb9	-0.57	M2-like MPWT TAC vs WT Sham
Cct8	0.57	M2-like MPWT TAC vs WT Sham
Cryab	-0.57	M2-like MPWT TAC vs WT Sham
Fcgr2b	0.57	M2-like MPWT TAC vs WT Sham
Actn2	-0.57	M2-like MPWT TAC vs WT Sham
Cct7	0.57	M2-like MPWT TAC vs WT Sham
Atp5g1	-0.57	M2-like MPWT TAC vs WT Sham
Ecm1	0.57	M2-like MPWT TAC vs WT Sham
Tcf4	-0.57	M2-like MPWT TAC vs WT Sham
Cstb	0.56	M2-like MPWT TAC vs WT Sham
Mpeg1	0.56	M2-like MPWT TAC vs WT Sham
Myom1	-0.56	M2-like MPWT TAC vs WT Sham
Cdh5	-0.56	M2-like MPWT TAC vs WT Sham
Bax	0.56	M2-like MPWT TAC vs WT Sham
Hsp90ab1	0.56	M2-like MPWT TAC vs WT Sham
Hbb-bs	-0.55	M2-like MPWT TAC vs WT Sham
Ech1	-0.55	M2-like MPWT TAC vs WT Sham
Atp1a2	-0.55	M2-like MPWT TAC vs WT Sham
Uqcr10	-0.55	M2-like MPWT TAC vs WT Sham
Rgs1	0.55	M2-like MPWT TAC vs WT Sham
Cd164	-0.55	M2-like MPWT TAC vs WT Sham
Crip1	-0.55	M2-like MPWT TAC vs WT Sham
Atp5g3	-0.54	M2-like MPWT TAC vs WT Sham
Ctsh	0.54	M2-like MPWT TAC vs WT Sham
Ndufb4	-0.54	M2-like MPWT TAC vs WT Sham
Serf2	-0.54	M2-like MPWT TAC vs WT Sham
Hadhb	-0.54	M2-like MPWT TAC vs WT Sham
Tubb6	0.54	M2-like MPWT TAC vs WT Sham
Hexa	0.54	M2-like MPWT TAC vs WT Sham
Clic1	0.54	M2-like MPWT TAC vs WT Sham
Rpn2	0.54	M2-like MPWT TAC vs WT Sham
Mtss1	-0.54	M2-like MPWT TAC vs WT Sham

Cct6a	0.53	M2-like MPWT TAC vs WT Sham
Pdia6	0.53	M2-like MPWT TAC vs WT Sham
Cd63	0.53	M2-like MPWT TAC vs WT Sham
Myadm	-0.53	M2-like MPWT TAC vs WT Sham
Akr1a1	0.53	M2-like MPWT TAC vs WT Sham
S100a4	0.53	M2-like MPWT TAC vs WT Sham
Acta1	0.53	M2-like MPWT TAC vs WT Sham
Gm4604	-0.53	M2-like MPWT TAC vs WT Sham
Bloc1s1	-0.53	M2-like MPWT TAC vs WT Sham
Nfib	-0.52	M2-like MPWT TAC vs WT Sham
Mt2	-1.44	M2-like MPmiR-21 cKO TAC vs WT TAC
H2-Aa	1.21	M2-like MPmiR-21 cKO TAC vs WT TAC
H2-Eb1	1.20	M2-like MPmiR-21 cKO TAC vs WT TAC
Mt1	-1.12	M2-like MPmiR-21 cKO TAC vs WT TAC
H2-Ab1	1.05	M2-like MPmiR-21 cKO TAC vs WT TAC
Cd74	0.99	M2-like MPmiR-21 cKO TAC vs WT TAC
Rps28	-0.98	M2-like MPmiR-21 cKO TAC vs WT TAC
Klf2	-0.96	M2-like MPmiR-21 cKO TAC vs WT TAC
Igfbp7	-0.93	M2-like MPmiR-21 cKO TAC vs WT TAC
Hmox1	-0.90	M2-like MPmiR-21 cKO TAC vs WT TAC
Rps29	-0.87	M2-like MPmiR-21 cKO TAC vs WT TAC
Tsc22d3	-0.87	M2-like MPmiR-21 cKO TAC vs WT TAC
S100a4	-0.81	M2-like MPmiR-21 cKO TAC vs WT TAC
S100a6	-0.81	M2-like MPmiR-21 cKO TAC vs WT TAC
Gm10076	-0.78	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl38	-0.78	M2-like MPmiR-21 cKO TAC vs WT TAC
Spp1	-0.77	M2-like MPmiR-21 cKO TAC vs WT TAC
Gm28438	-0.72	M2-like MPmiR-21 cKO TAC vs WT TAC
Chil3	-0.70	M2-like MPmiR-21 cKO TAC vs WT TAC
Rps27	-0.67	M2-like MPmiR-21 cKO TAC vs WT TAC
AC121965.1	-0.67	M2-like MPmiR-21 cKO TAC vs WT TAC
Dnaja1	-0.67	M2-like MPmiR-21 cKO TAC vs WT TAC
Cd72	0.67	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl37	-0.64	M2-like MPmiR-21 cKO TAC vs WT TAC
Fcgr4	0.64	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl35	-0.64	M2-like MPmiR-21 cKO TAC vs WT TAC
K1f9	-0.63	M2-like MPmiR-21 cKO TAC vs WT TAC

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Rps21	-0.63	M2-like MPmiR-21 cKO TAC vs WT TAC
Atp5k	-0.62	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl37a	-0.62	M2-like MPmiR-21 cKO TAC vs WT TAC
Slc39a1	-0.61	M2-like MPmiR-21 cKO TAC vs WT TAC
Usmg5	-0.61	M2-like MPmiR-21 cKO TAC vs WT TAC
Actb	-0.60	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl36	-0.60	M2-like MPmiR-21 cKO TAC vs WT TAC
Ccl4	0.60	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl39	-0.59	M2-like MPmiR-21 cKO TAC vs WT TAC
Pou2f2	0.59	M2-like MPmiR-21 cKO TAC vs WT TAC
Hspa8	-0.58	M2-like MPmiR-21 cKO TAC vs WT TAC
Ccl12	0.58	M2-like MPmiR-21 cKO TAC vs WT TAC
Gm4149	-0.57	M2-like MPmiR-21 cKO TAC vs WT TAC
Timp1	-0.57	M2-like MPmiR-21 cKO TAC vs WT TAC
Ddit4	-0.56	M2-like MPmiR-21 cKO TAC vs WT TAC
Sec61g	-0.55	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl41	-0.55	M2-like MPmiR-21 cKO TAC vs WT TAC
Stk17b	-0.55	M2-like MPmiR-21 cKO TAC vs WT TAC
Cox7c	-0.54	M2-like MPmiR-21 cKO TAC vs WT TAC
Rps26	-0.53	M2-like MPmiR-21 cKO TAC vs WT TAC
Plaur	-0.53	M2-like MPmiR-21 cKO TAC vs WT TAC
G530011O06Rik	0.53	M2-like MPmiR-21 cKO TAC vs WT TAC
Thbs1	-0.53	M2-like MPmiR-21 cKO TAC vs WT TAC
Timp2	-0.53	M2-like MPmiR-21 cKO TAC vs WT TAC
Nppa	0.53	M2-like MPmiR-21 cKO TAC vs WT TAC
Ccl3	0.52	M2-like MPmiR-21 cKO TAC vs WT TAC
Slamf9	0.52	M2-like MPmiR-21 cKO TAC vs WT TAC
Marcksl1	0.52	M2-like MPmiR-21 cKO TAC vs WT TAC
S100a11	-0.51	M2-like MPmiR-21 cKO TAC vs WT TAC
C3ar1	0.50	M2-like MPmiR-21 cKO TAC vs WT TAC
Anxa2	-0.50	M2-like MPmiR-21 cKO TAC vs WT TAC
Tomm7	-0.49	M2-like MPmiR-21 cKO TAC vs WT TAC
Cox17	-0.49	M2-like MPmiR-21 cKO TAC vs WT TAC
Lamp1	-0.49	M2-like MPmiR-21 cKO TAC vs WT TAC
Арое	0.48	M2-like MPmiR-21 cKO TAC vs WT TAC
Clec4a1	0.48	M2-like MPmiR-21 cKO TAC vs WT TAC
Hes1	-0.48	M2-like MPmiR-21 cKO TAC vs WT TAC

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Rps27rt	-0.48	M2-like MPmiR-21 cKO TAC vs WT TAC
8430408G22Rik	-0.48	M2-like MPmiR-21 cKO TAC vs WT TAC
Atp5e	-0.47	M2-like MPmiR-21 cKO TAC vs WT TAC
H2-DMa	0.47	M2-like MPmiR-21 cKO TAC vs WT TAC
Fkbp5	-0.46	M2-like MPmiR-21 cKO TAC vs WT TAC
Mrpl52	-0.46	M2-like MPmiR-21 cKO TAC vs WT TAC
Nfkbiz	0.46	M2-like MPmiR-21 cKO TAC vs WT TAC
H2-Q7	0.46	M2-like MPmiR-21 cKO TAC vs WT TAC
Gm1821	-0.46	M2-like MPmiR-21 cKO TAC vs WT TAC
Hspb1	-0.46	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl37rt	-0.45	M2-like MPmiR-21 cKO TAC vs WT TAC
Ankrd1	-0.45	M2-like MPmiR-21 cKO TAC vs WT TAC
Hbb-bs	0.45	M2-like MPmiR-21 cKO TAC vs WT TAC
Ccnd1	0.45	M2-like MPmiR-21 cKO TAC vs WT TAC
Ms4a7	0.45	M2-like MPmiR-21 cKO TAC vs WT TAC
Lair1	0.45	M2-like MPmiR-21 cKO TAC vs WT TAC
Stmn1	0.44	M2-like MPmiR-21 cKO TAC vs WT TAC
AW112010	0.44	M2-like MPmiR-21 cKO TAC vs WT TAC
Tmem176a	0.44	M2-like MPmiR-21 cKO TAC vs WT TAC
Fn1	-0.44	M2-like MPmiR-21 cKO TAC vs WT TAC
Ndufa3	-0.44	M2-like MPmiR-21 cKO TAC vs WT TAC
Lgals3	-0.44	M2-like MPmiR-21 cKO TAC vs WT TAC
Snrpg	-0.44	M2-like MPmiR-21 cKO TAC vs WT TAC
Ccl8	-0.43	M2-like MPmiR-21 cKO TAC vs WT TAC
Cebpd	-0.43	M2-like MPmiR-21 cKO TAC vs WT TAC
2010107E04Rik	-0.43	M2-like MPmiR-21 cKO TAC vs WT TAC
Marcks	0.42	M2-like MPmiR-21 cKO TAC vs WT TAC
Eno1	-0.42	M2-like MPmiR-21 cKO TAC vs WT TAC
Jund	-0.42	M2-like MPmiR-21 cKO TAC vs WT TAC
Acta1	-0.42	M2-like MPmiR-21 cKO TAC vs WT TAC
Uqcr11	-0.41	M2-like MPmiR-21 cKO TAC vs WT TAC
Kdr	0.41	M2-like MPmiR-21 cKO TAC vs WT TAC
Lrrc8a	-0.41	M2-like MPmiR-21 cKO TAC vs WT TAC
Cops9	-0.41	M2-like MPmiR-21 cKO TAC vs WT TAC
Per1	-0.41	M2-like MPmiR-21 cKO TAC vs WT TAC
Ccr5	0.40	M2-like MPmiR-21 cKO TAC vs WT TAC
H2-DMb1	0.40	M2-like MPmiR-21 cKO TAC vs WT TAC

D 1 0	0.40	
Bola2	-0.40	M2-like MPmiR-21 cKO TAC vs WT TAC
Gm42418	-0.40	M2-like MPmiR-21 cKO TAC vs WT TAC
Zmynd15	0.40	M2-like MPmiR-21 cKO TAC vs WT TAC
Mif	-0.40	M2-like MPmiR-21 cKO TAC vs WT TAC
S100a10	-0.39	M2-like MPmiR-21 cKO TAC vs WT TAC
Jun	0.39	M2-like MPmiR-21 cKO TAC vs WT TAC
Capg	-0.38	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl34	-0.38	M2-like MPmiR-21 cKO TAC vs WT TAC
Tmem258	-0.38	M2-like MPmiR-21 cKO TAC vs WT TAC
Psmb8	0.38	M2-like MPmiR-21 cKO TAC vs WT TAC
Ccl9	-0.38	M2-like MPmiR-21 cKO TAC vs WT TAC
Cox7a1	-0.38	M2-like MPmiR-21 cKO TAC vs WT TAC
Crip1	-0.38	M2-like MPmiR-21 cKO TAC vs WT TAC
Hpgd	-0.38	M2-like MPmiR-21 cKO TAC vs WT TAC
H1f0	0.37	M2-like MPmiR-21 cKO TAC vs WT TAC
Rgs2	0.37	M2-like MPmiR-21 cKO TAC vs WT TAC
Fyb	0.37	M2-like MPmiR-21 cKO TAC vs WT TAC
Tmsb10	-0.37	M2-like MPmiR-21 cKO TAC vs WT TAC
Emp1	-0.37	M2-like MPmiR-21 cKO TAC vs WT TAC
Tmem176b	0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
mt-Atp6	0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
Abca1	-0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
St13	-0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
Cd93	0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
Isg15	0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
Evi2a	0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
Gm34084	0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
Uqcrq	-0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
mt-Nd1	0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
Pkm	-0.36	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl31	-0.35	M2-like MPmiR-21 cKO TAC vs WT TAC
Pclaf	0.35	M2-like MPmiR-21 cKO TAC vs WT TAC
Snrpf	-0.35	M2-like MPmiR-21 cKO TAC vs WT TAC
Gas5	-0.35	M2-like MPmiR-21 cKO TAC vs WT TAC
Fosb	0.35	M2-like MPmiR-21 cKO TAC vs WT TAC
Psmb9	0.35	M2-like MPmiR-21 cKO TAC vs WT TAC
Cxcl16	0.35	M2-like MPmiR-21 cKO TAC vs WT TAC

Srgn	-0.35	M2-like MPmiR-21 cKO TAC vs WT TAC
Akap12		M2-like MPmiR-21 cKO TAC vs WT TAC
-		M2-like MPmiR-21 cKO TAC vs WT TAC
Uba52		M2-like MPmiR-21 cKO TAC vs WT TAC
Vim		M2-like MPmiR-21 cKO TAC vs WT TAC
		M2-like MPmiR-21 cKO TAC vs WT TAC
Nupr1		M2-like MPmiR-21 cKO TAC vs WT TAC
· •		M2-like MPmiR-21 cKO TAC vs WT TAC
	0.34	M2-like MPmiR-21 cKO TAC vs WT TAC
Msr1	-0.34	M2-like MPmiR-21 cKO TAC vs WT TAC
		M2-like MPmiR-21 cKO TAC vs WT TAC
Tgfbi	-0.34	M2-like MPmiR-21 cKO TAC vs WT TAC
	0.34	M2-like MPmiR-21 cKO TAC vs WT TAC
	0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
		M2-like MPmiR-21 cKO TAC vs WT TAC
Ccnd3	-0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Polr21		M2-like MPmiR-21 cKO TAC vs WT TAC
Eif2s2		M2-like MPmiR-21 cKO TAC vs WT TAC
Nfkbia	-0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Ccr1	0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Сохбс	-0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl36a	-0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Ndufc1	-0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Cox6a2	-0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl35a	-0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Socs3	-0.33	M2-like MPmiR-21 cKO TAC vs WT TAC
Cybb	0.32	M2-like MPmiR-21 cKO TAC vs WT TAC
Cd163	-0.32	M2-like MPmiR-21 cKO TAC vs WT TAC
Nars	-0.32	M2-like MPmiR-21 cKO TAC vs WT TAC
9930111J21Rik2	0.32	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl27a	-0.32	M2-like MPmiR-21 cKO TAC vs WT TAC
Lgals1	-0.32	M2-like MPmiR-21 cKO TAC vs WT TAC
Osm	-0.32	M2-like MPmiR-21 cKO TAC vs WT TAC
Eif3j1	-0.32	M2-like MPmiR-21 cKO TAC vs WT TAC
Ier3	0.31	M2-like MPmiR-21 cKO TAC vs WT TAC
Rplp2	-0.31	M2-like MPmiR-21 cKO TAC vs WT TAC
Romo1	-0.31	M2-like MPmiR-21 cKO TAC vs WT TAC

Corst	0.21	M2 like MDmiD 21 eVO TAC W/T TAC
Cox5b	-0.31	M2-like MPmiR-21 cKO TAC vs WT TAC
H2-Q6	0.31	M2-like MPmiR-21 cKO TAC vs WT TAC
Ifit3	0.31	M2-like MPmiR-21 cKO TAC vs WT TAC
Atp5j2	-0.31	M2-like MPmiR-21 cKO TAC vs WT TAC
Rpl30	-0.31	M2-like MPmiR-21 cKO TAC vs WT TAC
Gm2000	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Apbb1ip	0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Lacc1	0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Hspa5	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Irf8	0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Ednrb	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Hspe1	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Uqcr10	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Birc5	0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Wdr89	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Dusp3	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
H2-K1	0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Nfil3	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Tap1	0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Cd52	0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Atp51	-0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Lst1	0.30	M2-like MPmiR-21 cKO TAC vs WT TAC
Kdm6b	-0.29	M2-like MPmiR-21 cKO TAC vs WT TAC
Stap1	0.29	M2-like MPmiR-21 cKO TAC vs WT TAC
Ucp2	-0.29	M2-like MPmiR-21 cKO TAC vs WT TAC
Chil3	2.71	M1-like MPWT TAC vs WT Sham
Spp1	2.56	M1-like MPWT TAC vs WT Sham
Thbs1	2.18	M1-like MPWT TAC vs WT Sham
Il1b	2.12	M1-like MPWT TAC vs WT Sham
Арое	-1.98	M1-like MPWT TAC vs WT Sham
Srgn	1.92	M1-like MPWT TAC vs WT Sham
Mb	-1.86	M1-like MPWT TAC vs WT Sham
Cox6a2	-1.83	M1-like MPWT TAC vs WT Sham
Pf4	-1.79	M1-like MPWT TAC vs WT Sham
Ccl2	1.77	M1-like MPWT TAC vs WT Sham
Arg1	1.75	M1-like MPWT TAC vs WT Sham
Anxa2	1.74	M1-like MPWT TAC vs WT Sham
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Fn1	1.74	M1-like MPWT TAC vs WT Sham
Нр	1.73	M1-like MPWT TAC vs WT Sham
Mgl2	-1.69	M1-like MPWT TAC vs WT Sham
Cd81	-1.67	M1-like MPWT TAC vs WT Sham
Plaur	1.67	M1-like MPWT TAC vs WT Sham
Actc1	-1.65	M1-like MPWT TAC vs WT Sham
Clec4n	1.63	M1-like MPWT TAC vs WT Sham
Tgfbi	1.62	M1-like MPWT TAC vs WT Sham
Slc25a4	-1.61	M1-like MPWT TAC vs WT Sham
Ttn	-1.61	M1-like MPWT TAC vs WT Sham
Plac8	1.61	M1-like MPWT TAC vs WT Sham
Ly6c2	1.57	M1-like MPWT TAC vs WT Sham
Fabp3	-1.56	M1-like MPWT TAC vs WT Sham
Pln	-1.55	M1-like MPWT TAC vs WT Sham
Atp2a2	-1.54	M1-like MPWT TAC vs WT Sham
S100a11	1.54	M1-like MPWT TAC vs WT Sham
Ccl7	1.50	M1-like MPWT TAC vs WT Sham
Lpl	-1.50	M1-like MPWT TAC vs WT Sham
Ccr1	1.48	M1-like MPWT TAC vs WT Sham
C1qc	-1.48	M1-like MPWT TAC vs WT Sham
Cox7a1	-1.46	M1-like MPWT TAC vs WT Sham
Ckm	-1.45	M1-like MPWT TAC vs WT Sham
Vim	1.45	M1-like MPWT TAC vs WT Sham
mt-Atp6	-1.45	M1-like MPWT TAC vs WT Sham
Pkm	1.43	M1-like MPWT TAC vs WT Sham
Cd36	-1.42	M1-like MPWT TAC vs WT Sham
Ms4a6d	1.38	M1-like MPWT TAC vs WT Sham
Cox8b	-1.36	M1-like MPWT TAC vs WT Sham
Ms4a4c	1.34	M1-like MPWT TAC vs WT Sham
Ier3	1.34	M1-like MPWT TAC vs WT Sham
Eno1	1.33	M1-like MPWT TAC vs WT Sham
Ccl9	1.33	M1-like MPWT TAC vs WT Sham
Vcan	1.33	M1-like MPWT TAC vs WT Sham
Lgals3	1.32	M1-like MPWT TAC vs WT Sham
Hpgd	-1.30	M1-like MPWT TAC vs WT Sham
Socs3	1.29	M1-like MPWT TAC vs WT Sham
Clec4d	1.29	M1-like MPWT TAC vs WT Sham

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Hspa81.13M1-like MP WT TAC vs WT ShamSirpb1c1.12M1-like MP WT TAC vs WT ShamMsrb11.12M1-like MP WT TAC vs WT ShamXbp11.11M1-like MP WT TAC vs WT ShamMarcks-1.11M1-like MP WT TAC vs WT ShamTcap-1.09M1-like MP WT TAC vs WT ShamDnaja11.09M1-like MP WT TAC vs WT ShamMybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.07M1-like MP WT TAC vs WT Sham	C1qb	-1.15	M1-like MPWT TAC vs WT Sham
Sirpb1c1.12M1-like MP WT TAC vs WT ShamMsrb11.12M1-like MP WT TAC vs WT ShamXbp11.11M1-like MP WT TAC vs WT ShamMarcks-1.11M1-like MP WT TAC vs WT ShamTcap-1.09M1-like MP WT TAC vs WT ShamDnaja11.09M1-like MP WT TAC vs WT ShamMybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.08M1-like MP WT TAC vs WT ShamS100a61.07M1-like MP WT TAC vs WT ShamIfitm11.07M1-like MP WT TAC vs WT Sham	Eno3	-1.15	M1-like MPWT TAC vs WT Sham
Msrb11.12M1-like MP WT TAC vs WT ShamXbp11.11M1-like MP WT TAC vs WT ShamMarcks-1.11M1-like MP WT TAC vs WT ShamTcap-1.09M1-like MP WT TAC vs WT ShamDnaja11.09M1-like MP WT TAC vs WT ShamMybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.08M1-like MP WT TAC vs WT ShamS100a61.07M1-like MP WT TAC vs WT ShamIfitm11.07M1-like MP WT TAC vs WT Sham	Hspa8	1.13	M1-like MPWT TAC vs WT Sham
Xbp11.11M1-like MP WT TAC vs WT ShamMarcks-1.11M1-like MP WT TAC vs WT ShamTcap-1.09M1-like MP WT TAC vs WT ShamDnaja11.09M1-like MP WT TAC vs WT ShamMybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.08M1-like MP WT TAC vs WT ShamS100a61.07M1-like MP WT TAC vs WT ShamIfitm11.07M1-like MP WT TAC vs WT Sham	Sirpb1c	1.12	M1-like MPWT TAC vs WT Sham
Marcks-1.11M1-like MP WT TAC vs WT ShamTcap-1.09M1-like MP WT TAC vs WT ShamDnaja11.09M1-like MP WT TAC vs WT ShamMybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.08M1-like MP WT TAC vs WT ShamS100a61.07M1-like MP WT TAC vs WT ShamIfitm11.07M1-like MP WT TAC vs WT Sham	Msrb1	1.12	M1-like MPWT TAC vs WT Sham
Marcks-1.11M1-like MP WT TAC vs WT ShamTcap-1.09M1-like MP WT TAC vs WT ShamDnaja11.09M1-like MP WT TAC vs WT ShamMybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.08M1-like MP WT TAC vs WT ShamS100a61.07M1-like MP WT TAC vs WT ShamIfitm11.07M1-like MP WT TAC vs WT Sham	Xbp1	1.11	M1-like MPWT TAC vs WT Sham
Tcap-1.09M1-like MP WT TAC vs WT ShamDnaja11.09M1-like MP WT TAC vs WT ShamMybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.08M1-like MP WT TAC vs WT ShamS100a61.07M1-like MP WT TAC vs WT ShamIfitm11.07M1-like MP WT TAC vs WT Sham	•	-1.11	M1-like MPWT TAC vs WT Sham
Dnaja11.09M1-like MP WT TAC vs WT ShamMybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.08M1-like MP WT TAC vs WT ShamS100a61.07M1-like MP WT TAC vs WT ShamIfitm11.07M1-like MP WT TAC vs WT Sham		-1.09	
Mybpc3-1.08M1-like MP WT TAC vs WT ShamGda1.08M1-like MP WT TAC vs WT ShamS100a61.07M1-like MP WT TAC vs WT ShamIfitm11.07M1-like MP WT TAC vs WT Sham			
Gda1.08M1-like MPWT TAC vs WT ShamS100a61.07M1-like MPWT TAC vs WT ShamIfitm11.07M1-like MPWT TAC vs WT Sham			
S100a61.07M1-like MPWT TAC vs WT ShamIfitm11.07M1-like MPWT TAC vs WT Sham	· · ·		
Ifitm1 1.07 M1-like MPWT TAC vs WT Sham			
	Serinc3	-1.07	M1-like MPWT TAC vs WT Sham

Ifi30	1.07	M1-like MPWT TAC vs WT Sham
Ndufa5	-1.06	M1-like MPWT TAC vs WT Sham
Igfbp7	1.06	M1-like MPWT TAC vs WT Sham
Slc16a3	1.05	M1-like MPWT TAC vs WT Sham
Emilin2	1.04	M1-like MPWT TAC vs WT Sham
Ltb4r1	1.03	M1-like MPWT TAC vs WT Sham
Crip2	-1.03	M1-like MPWT TAC vs WT Sham
Mdh1	-1.03	M1-like MPWT TAC vs WT Sham
Idh2	-1.02	M1-like MPWT TAC vs WT Sham
Capg	1.02	M1-like MPWT TAC vs WT Sham
Emb	1.01	M1-like MPWT TAC vs WT Sham
AA467197	1.00	M1-like MPWT TAC vs WT Sham
H2-Eb1	-1.00	M1-like MPWT TAC vs WT Sham
Taldo1	1.00	M1-like MPWT TAC vs WT Sham
Ftl1-ps1	-1.00	M1-like MPWT TAC vs WT Sham
Mt2	0.99	M1-like MPWT TAC vs WT Sham
Ms4a6c	0.98	M1-like MPWT TAC vs WT Sham
Etfb	-0.97	M1-like MPWT TAC vs WT Sham
Dmkn	0.97	M1-like MPWT TAC vs WT Sham
Mcemp1	0.97	M1-like MPWT TAC vs WT Sham
Ass1	0.96	M1-like MPWT TAC vs WT Sham
Pim1	0.96	M1-like MPWT TAC vs WT Sham
Ech1	-0.95	M1-like MPWT TAC vs WT Sham
Msr1	0.95	M1-like MPWT TAC vs WT Sham
Cryab	-0.95	M1-like MPWT TAC vs WT Sham
Tgm2	0.94	M1-like MPWT TAC vs WT Sham
Nfil3	0.94	M1-like MPWT TAC vs WT Sham
Zbtb20	-0.94	M1-like MPWT TAC vs WT Sham
F10	0.93	M1-like MPWT TAC vs WT Sham
Ifitm6	0.93	M1-like MPWT TAC vs WT Sham
Mef2c	-0.93	M1-like MPWT TAC vs WT Sham
Gm10076	0.92	M1-like MPWT TAC vs WT Sham
Pgam1	0.92	M1-like MPWT TAC vs WT Sham
Gm28438	0.92	M1-like MPWT TAC vs WT Sham
Itgb2	0.91	M1-like MPWT TAC vs WT Sham
Mif	0.91	M1-like MPWT TAC vs WT Sham
Hif1a	0.91	M1-like MPWT TAC vs WT Sham

Clec4b1	-0.91	M1-like MPWT TAC vs WT Sham
Zfp36l1	-0.91	M1-like MPWT TAC vs WT Sham
-	0.89	M1-like MPWT TAC vs WT Sham
Tspo Fohn5	0.89	M1-like MPWT TAC vs WT Sham
Fabp5		
Plek	0.88	M1-like MPWT TAC vs WT Sham
Ctsl	0.87	M1-like MPWT TAC vs WT Sham
Dpysl2	-0.87	M1-like MPWT TAC vs WT Sham
Aprt	0.87	M1-like MPWT TAC vs WT Sham
Cx3cr1	-0.87	M1-like MPWT TAC vs WT Sham
Bcl2a1d	0.86	M1-like MPWT TAC vs WT Sham
Napsa	0.86	M1-like MPWT TAC vs WT Sham
Hrc	-0.86	M1-like MPWT TAC vs WT Sham
Pglyrp1	0.85	M1-like MPWT TAC vs WT Sham
Eif4a1	0.85	M1-like MPWT TAC vs WT Sham
Fcgr2b	0.85	M1-like MPWT TAC vs WT Sham
Sptbn1	-0.85	M1-like MPWT TAC vs WT Sham
Anxa1	0.84	M1-like MPWT TAC vs WT Sham
Itgam	0.84	M1-like MPWT TAC vs WT Sham
Myom1	-0.84	M1-like MPWT TAC vs WT Sham
Tpi1	0.83	M1-like MPWT TAC vs WT Sham
Cd14	0.83	M1-like MPWT TAC vs WT Sham
Slfn2	0.82	M1-like MPWT TAC vs WT Sham
Cd74	-0.82	M1-like MPWT TAC vs WT Sham
Arpc1b	0.81	M1-like MPWT TAC vs WT Sham
Tmsb10	0.81	M1-like MPWT TAC vs WT Sham
Isg15	0.81	M1-like MPWT TAC vs WT Sham
Bin2	0.81	M1-like MPWT TAC vs WT Sham
Cbr2	-0.81	M1-like MPWT TAC vs WT Sham
Slamf9	-0.81	M1-like MPWT TAC vs WT Sham
Serp1	0.80	M1-like MPWT TAC vs WT Sham
Fam49b	0.80	M1-like MPWT TAC vs WT Sham
Fcgr1	0.80	M1-like MPWT TAC vs WT Sham
Fxyd1	-0.80	M1-like MPWT TAC vs WT Sham
Ly6e	0.80	M1-like MPWT TAC vs WT Sham
Ninj1	0.80	M1-like MPWT TAC vs WT Sham
Kctd12	-0.80	M1-like MPWT TAC vs WT Sham
Slfn1	0.79	M1-like MPWT TAC vs WT Sham
~ *****	0.17	

Eif5a	0.79	M1-like MPWT TAC vs WT Sham
Rnaset2a	-0.79	M1-like MPWT TAC vs WT Sham
Fxyd5	0.79	M1-like MPWT TAC vs WT Sham
Cdk2ap2	0.79	M1-like MPWT TAC vs WT Sham
Chd7	0.79	M1-like MPWT TAC vs WT Sham
Atpif1	-0.79	M1-like MPWT TAC vs WT Sham
Cytip	0.78	M1-like MPWT TAC vs WT Sham
Cdkn1a	0.78	M1-like MPWT TAC vs WT Sham
Nfkbia	0.78	M1-like MPWT TAC vs WT Sham
Samsn1	0.78	M1-like MPWT TAC vs WT Sham
Gngt2	0.78	M1-like MPWT TAC vs WT Sham
Mbnl1	-0.78	M1-like MPWT TAC vs WT Sham
Lilra5	-0.77	M1-like MPWT TAC vs WT Sham
Pde4b	0.77	M1-like MPWT TAC vs WT Sham
Ctss	0.77	M1-like MPWT TAC vs WT Sham
Tmcc1	-0.77	M1-like MPWT TAC vs WT Sham
Hbb-bs	-0.77	M1-like MPWT TAC vs WT Sham
Zfhx3	-0.77	M1-like MPWT TAC vs WT Sham
Il1rn	0.76	M1-like MPWT TAC vs WT Sham
Adam8	0.76	M1-like MPWT TAC vs WT Sham
Lmnb1	0.76	M1-like MPWT TAC vs WT Sham
mt-Rnr2	0.76	M1-like MPWT TAC vs WT Sham
Hsp90aa1	0.76	M1-like MPWT TAC vs WT Sham
Ighm	-0.75	M1-like MPWT TAC vs WT Sham
Trem1	0.75	M1-like MPWT TAC vs WT Sham
Pgk1	0.75	M1-like MPWT TAC vs WT Sham
Rnaset2b	-0.75	M1-like MPWT TAC vs WT Sham
Ndufb4	-0.75	M1-like MPWT TAC vs WT Sham
Acadm	-0.74	M1-like MPWT TAC vs WT Sham
Csrp3	-0.74	M1-like MPWT TAC vs WT Sham
Gsr	0.74	M1-like MPWT TAC vs WT Sham
Cotl1	0.74	M1-like MPWT TAC vs WT Sham
Actn2	-0.74	M1-like MPWT TAC vs WT Sham
Uck2	0.74	M1-like MPWT TAC vs WT Sham
Fosl2	0.74	M1-like MPWT TAC vs WT Sham
H2-Aa	-0.73	M1-like MPWT TAC vs WT Sham
Slc7a11	0.73	M1-like MPWT TAC vs WT Sham

Gm4604	-0.73	M1-like MPWT TAC vs WT Sham
Arf1	0.73	M1-like MPWT TAC vs WT Sham
Ryr2	-0.73	M1-like MPWT TAC vs WT Sham
Arg1	-1.56	M1-like MPmiR-21 cKO TAC vs WT TAC
C1qc	1.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Thbs1	-1.44	M1-like MPmiR-21 cKO TAC vs WT TAC
C1qb	1.35	M1-like MPmiR-21 cKO TAC vs WT TAC
Spp1	-1.31	M1-like MPmiR-21 cKO TAC vs WT TAC
Plaur	-1.29	M1-like MPmiR-21 cKO TAC vs WT TAC
C1qa	1.29	M1-like MPmiR-21 cKO TAC vs WT TAC
Srgn	-1.28	M1-like MPmiR-21 cKO TAC vs WT TAC
Apoe	1.24	M1-like MPmiR-21 cKO TAC vs WT TAC
Cd81	1.22	M1-like MPmiR-21 cKO TAC vs WT TAC
Ccl2	-1.18	M1-like MPmiR-21 cKO TAC vs WT TAC
Pf4	1.15	M1-like MPmiR-21 cKO TAC vs WT TAC
Cd72	1.11	M1-like MPmiR-21 cKO TAC vs WT TAC
Osm	-1.07	M1-like MPmiR-21 cKO TAC vs WT TAC
Ms4a7	1.03	M1-like MPmiR-21 cKO TAC vs WT TAC
Clec4n	-1.01	M1-like MPmiR-21 cKO TAC vs WT TAC
S100a4	-1.00	M1-like MPmiR-21 cKO TAC vs WT TAC
Vcan	-0.99	M1-like MPmiR-21 cKO TAC vs WT TAC
Anxa2	-0.96	M1-like MPmiR-21 cKO TAC vs WT TAC
Chil3	-0.95	M1-like MPmiR-21 cKO TAC vs WT TAC
Ccl9	-0.94	M1-like MPmiR-21 cKO TAC vs WT TAC
Ckb	0.94	M1-like MPmiR-21 cKO TAC vs WT TAC
S100a11	-0.92	M1-like MPmiR-21 cKO TAC vs WT TAC
Il1b	-0.91	M1-like MPmiR-21 cKO TAC vs WT TAC
Slamf9	0.90	M1-like MPmiR-21 cKO TAC vs WT TAC
S100a6	-0.90	M1-like MPmiR-21 cKO TAC vs WT TAC
Mt2	-0.89	M1-like MPmiR-21 cKO TAC vs WT TAC
Clec4d	-0.89	M1-like MPmiR-21 cKO TAC vs WT TAC
H2-Eb1	0.89	M1-like MPmiR-21 cKO TAC vs WT TAC
Rps28	-0.88	M1-like MPmiR-21 cKO TAC vs WT TAC
Dmkn	-0.88	M1-like MPmiR-21 cKO TAC vs WT TAC
Prdx6	-0.87	M1-like MPmiR-21 cKO TAC vs WT TAC
Cox17	-0.86	M1-like MPmiR-21 cKO TAC vs WT TAC
AW112010	0.85	M1-like MPmiR-21 cKO TAC vs WT TAC

AC121965.1	-0.84	M1-like MPmiR-21 cKO TAC vs WT TAC
Btg1	-0.83	M1-like MPmiR-21 cKO TAC vs WT TAC
Eno1	-0.83	M1-like MPmiR-21 cKO TAC vs WT TAC
Cend1	0.83	M1-like MPmiR-21 cKO TAC vs WT TAC
Hif1a	-0.82	M1-like MPmiR-21 cKO TAC vs WT TAC
Ccl12	0.82	M1-like MPmiR-21 cKO TAC vs WT TAC
Pkm	-0.82	M1-like MPmiR-21 cKO TAC vs WT TAC
Clec4e	-0.81	M1-like MPmiR-21 cKO TAC vs WT TAC
Nfil3	-0.81	M1-like MPmiR-21 cKO TAC vs WT TAC
Pou2f2	0.81	M1-like MPmiR-21 cKO TAC vs WT TAC
Lyz1	0.80	M1-like MPmiR-21 cKO TAC vs WT TAC
Gm34084	0.79	M1-like MPmiR-21 cKO TAC vs WT TAC
Xbp1	-0.78	M1-like MPmiR-21 cKO TAC vs WT TAC
Mgl2	0.78	M1-like MPmiR-21 cKO TAC vs WT TAC
S100a10	-0.78	M1-like MPmiR-21 cKO TAC vs WT TAC
Vim	-0.77	M1-like MPmiR-21 cKO TAC vs WT TAC
Rps27	-0.76	M1-like MPmiR-21 cKO TAC vs WT TAC
Tgm2	-0.75	M1-like MPmiR-21 cKO TAC vs WT TAC
Rps29	-0.75	M1-like MPmiR-21 cKO TAC vs WT TAC
Gm10076	-0.75	M1-like MPmiR-21 cKO TAC vs WT TAC
Dnaja1	-0.74	M1-like MPmiR-21 cKO TAC vs WT TAC
Sec61g	-0.74	M1-like MPmiR-21 cKO TAC vs WT TAC
H2-Aa	0.73	M1-like MPmiR-21 cKO TAC vs WT TAC
Fcrls	0.72	M1-like MPmiR-21 cKO TAC vs WT TAC
Slc16a3	-0.72	M1-like MPmiR-21 cKO TAC vs WT TAC
Clec7a	-0.72	M1-like MPmiR-21 cKO TAC vs WT TAC
Fn1	-0.72	M1-like MPmiR-21 cKO TAC vs WT TAC
Selenop	0.72	M1-like MPmiR-21 cKO TAC vs WT TAC
Ccr1	-0.71	M1-like MPmiR-21 cKO TAC vs WT TAC
Ly6c2	-0.71	M1-like MPmiR-21 cKO TAC vs WT TAC
H2-Ab1	0.71	M1-like MPmiR-21 cKO TAC vs WT TAC
Hspa8	-0.71	M1-like MPmiR-21 cKO TAC vs WT TAC
Lуба	0.70	M1-like MPmiR-21 cKO TAC vs WT TAC
Timp1	-0.69	M1-like MPmiR-21 cKO TAC vs WT TAC
Ldha	-0.69	M1-like MPmiR-21 cKO TAC vs WT TAC
Msr1	-0.68	M1-like MPmiR-21 cKO TAC vs WT TAC
Pltp	0.68	M1-like MPmiR-21 cKO TAC vs WT TAC

Uck2	-0.68	M1-like MPmiR-21 cKO TAC vs WT TAC
Lair1	0.68	M1-like MPmiR-21 cKO TAC vs WT TAC
Il1rn	-0.67	M1-like MPmiR-21 cKO TAC vs WT TAC
Trem1	-0.67	M1-like MPmiR-21 cKO TAC vs WT TAC
Mrpl52	-0.67	M1-like MPmiR-21 cKO TAC vs WT TAC
Ifitm1	-0.67	M1-like MPmiR-21 cKO TAC vs WT TAC
Cstb	-0.66	M1-like MPmiR-21 cKO TAC vs WT TAC
Ccl7	-0.66	M1-like MPmiR-21 cKO TAC vs WT TAC
Gm28438	-0.66	M1-like MPmiR-21 cKO TAC vs WT TAC
Rpl38	-0.66	M1-like MPmiR-21 cKO TAC vs WT TAC
Adgre1	0.66	M1-like MPmiR-21 cKO TAC vs WT TAC
Fcgr4	0.64	M1-like MPmiR-21 cKO TAC vs WT TAC
Sdc4	-0.64	M1-like MPmiR-21 cKO TAC vs WT TAC
Slpi	-0.63	M1-like MPmiR-21 cKO TAC vs WT TAC
Actb	-0.63	M1-like MPmiR-21 cKO TAC vs WT TAC
Ier3	-0.63	M1-like MPmiR-21 cKO TAC vs WT TAC
Pgk1	-0.63	M1-like MPmiR-21 cKO TAC vs WT TAC
Ighm	0.62	M1-like MPmiR-21 cKO TAC vs WT TAC
Ass1	-0.62	M1-like MPmiR-21 cKO TAC vs WT TAC
Tgfbi	-0.62	M1-like MPmiR-21 cKO TAC vs WT TAC
Mt1	-0.62	M1-like MPmiR-21 cKO TAC vs WT TAC
Ltb4r1	-0.62	M1-like MPmiR-21 cKO TAC vs WT TAC
Cd74	0.62	M1-like MPmiR-21 cKO TAC vs WT TAC
Pim1	-0.61	M1-like MPmiR-21 cKO TAC vs WT TAC
Lmnb1	-0.61	M1-like MPmiR-21 cKO TAC vs WT TAC
Kdm6b	-0.61	M1-like MPmiR-21 cKO TAC vs WT TAC
Igfbp7	-0.61	M1-like MPmiR-21 cKO TAC vs WT TAC
Itm2b	0.61	M1-like MPmiR-21 cKO TAC vs WT TAC
Cxcl2	-0.61	M1-like MPmiR-21 cKO TAC vs WT TAC
Mif	-0.60	M1-like MPmiR-21 cKO TAC vs WT TAC
Trem2	0.60	M1-like MPmiR-21 cKO TAC vs WT TAC
Cytip	-0.60	M1-like MPmiR-21 cKO TAC vs WT TAC
Usmg5	-0.60	M1-like MPmiR-21 cKO TAC vs WT TAC
Cxcl16	0.60	M1-like MPmiR-21 cKO TAC vs WT TAC
Emilin2	-0.60	M1-like MPmiR-21 cKO TAC vs WT TAC
Pde4b	-0.60	M1-like MPmiR-21 cKO TAC vs WT TAC
F10	-0.60	M1-like MPmiR-21 cKO TAC vs WT TAC

Bcl2a1d	-0.59	M1-like MPmiR-21 cKO TAC vs WT TAC
Samsn1	-0.59	M1-like MPmiR-21 cKO TAC vs WT TAC
Tmsb10	-0.59	M1-like MPmiR-21 cKO TAC vs WT TAC
Gatm	0.59	M1-like MPmiR-21 cKO TAC vs WT TAC
Ccl6	-0.57	M1-like MPmiR-21 cKO TAC vs WT TAC
Atp5k	-0.56	M1-like MPmiR-21 cKO TAC vs WT TAC
Ninj1	-0.56	M1-like MPmiR-21 cKO TAC vs WT TAC
Nfkbia	-0.56	M1-like MPmiR-21 cKO TAC vs WT TAC
Adam8	-0.56	M1-like MPmiR-21 cKO TAC vs WT TAC
Actg1	-0.56	M1-like MPmiR-21 cKO TAC vs WT TAC
Tes	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Ptpn1	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Rps21	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Card19	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Slc7a11	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Lgmn	0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Hexb	0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Mcemp1	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Ms4a6d	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Socs3	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Klf2	-0.55	M1-like MPmiR-21 cKO TAC vs WT TAC
Adora2b	-0.54	M1-like MPmiR-21 cKO TAC vs WT TAC
Tsc22d3	-0.54	M1-like MPmiR-21 cKO TAC vs WT TAC
Irf8	0.54	M1-like MPmiR-21 cKO TAC vs WT TAC
Mmp19	-0.54	M1-like MPmiR-21 cKO TAC vs WT TAC
Fosl2	-0.53	M1-like MPmiR-21 cKO TAC vs WT TAC
Lhfpl4	-0.53	M1-like MPmiR-21 cKO TAC vs WT TAC
Zmynd15	0.53	M1-like MPmiR-21 cKO TAC vs WT TAC
Fabp4	0.53	M1-like MPmiR-21 cKO TAC vs WT TAC
Rgs10	0.53	M1-like MPmiR-21 cKO TAC vs WT TAC
Crip1	-0.53	M1-like MPmiR-21 cKO TAC vs WT TAC
Pgam1	-0.52	M1-like MPmiR-21 cKO TAC vs WT TAC
Hspala	0.52	M1-like MPmiR-21 cKO TAC vs WT TAC
Plek	-0.52	M1-like MPmiR-21 cKO TAC vs WT TAC
Rpl37a	-0.52	M1-like MPmiR-21 cKO TAC vs WT TAC
Gm4149	-0.52	M1-like MPmiR-21 cKO TAC vs WT TAC
Saa3	0.51	M1-like MPmiR-21 cKO TAC vs WT TAC

Cd63	0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Rps27rt	-0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Cd14	-0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Clec4b1	0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Fabp5	-0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Mef2c	0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Rpl37	-0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Sem1	-0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Blvrb	0.51	M1-like MPmiR-21 cKO TAC vs WT TAC
Emb	-0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Axl	0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Tpi1	-0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Jaml	-0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Ccnd3	-0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Ehd4	0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Capg	-0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Havcr2	-0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Ctsb	0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Errfi1	-0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Fosb	0.50	M1-like MPmiR-21 cKO TAC vs WT TAC
Csrnp1	-0.49	M1-like MPmiR-21 cKO TAC vs WT TAC
Bst2	0.49	M1-like MPmiR-21 cKO TAC vs WT TAC
Нр	-0.49	M1-like MPmiR-21 cKO TAC vs WT TAC
Grn	0.48	M1-like MPmiR-21 cKO TAC vs WT TAC
C3ar1	0.48	M1-like MPmiR-21 cKO TAC vs WT TAC
Fkbp5	-0.48	M1-like MPmiR-21 cKO TAC vs WT TAC
Clec4a1	0.48	M1-like MPmiR-21 cKO TAC vs WT TAC
mt-Nd1	0.48	M1-like MPmiR-21 cKO TAC vs WT TAC
Ccnd2	0.47	M1-like MPmiR-21 cKO TAC vs WT TAC
Pglyrp1	-0.47	M1-like MPmiR-21 cKO TAC vs WT TAC
Gsr	-0.47	M1-like MPmiR-21 cKO TAC vs WT TAC
Cox7c	-0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Gda	-0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Gm42031	-0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Rpl35	-0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Lacc1	0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Atp5e	-0.46	M1-like MPmiR-21 cKO TAC vs WT TAC

Slfn2	-0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Lpl	0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Jun	0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Pet100	-0.46	M1-like MPmiR-21 cKO TAC vs WT TAC
Fgd2	0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Tmem176a	0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Rpl39	-0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Crem	-0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Fam49b	-0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Dhrs3	0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Cebpb	-0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Ankrd1	-0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Slc2a1	-0.45	M1-like MPmiR-21 cKO TAC vs WT TAC
Tomm7	-0.44	M1-like MPmiR-21 cKO TAC vs WT TAC
Bmyc	0.44	M1-like MPmiR-21 cKO TAC vs WT TAC
mt-Atp6	0.44	M1-like MPmiR-21 cKO TAC vs WT TAC
Il4ra	-0.44	M1-like MPmiR-21 cKO TAC vs WT TAC
Lgals3bp	0.44	M1-like MPmiR-21 cKO TAC vs WT TAC

Ligand	Receptor	cell_from_logFC	cell_from_q.value	cell_from	cell_to_logFC	cell_to_q.value
				MP_M1-		
Thbs1	Sdc4	-1.43925	2.69E-50	like	-0.6655	1.30E-16
				MP_M1-		
Spp1	Itga5	-1.31175	1.04E-05	like	-0.45576	1.08E-08
				MP_M1-		
Tgm2	Sdc4	-0.7489	1.06E-15	like	-0.6655	1.30E-16
				MP_M1-		
Fn1	Itga5	-0.71854	9.75E-21	like	-0.45576	1.08E-08
				MP_M1-		
Fn1	Plaur	-0.71854	9.75E-21	like	-0.44621	1.09E-14
T A A	T A A	0.0100 (0.015010	MP_M1-	0.010001	
Tgfb1	Tgfbr2	-0.31326	0.017918	like	0.312031	5.15E-10
111 50	T C O	0.00440	1 505 07	MP_M1-	0.010001	5 15E 10
Uba52	Tgfbr2	-0.32443	1.52E-07	like	0.312031	5.15E-10
0	ПС	1.06905	2 405 22	MP_M1-	0.242677	0.005 10
Osm	Il6st	-1.06805	3.49E-32	like	0.343677	8.88E-10
Thbs1	Cd47	-1.43925	2.69E-50	MP_M1- like	0.26257	3.57E-06
111051	Cu47	-1.43923	2.09E-30	MP_M1-	0.20237	5.5712-00
Thbs1	Lrp1	-1.43925	2.69E-50	like	0.358829	4.75E-19
111051		-1.+3723	2.072-30	MP_M1-	0.330027	H.73L-17
C1qb	Lrp1	1.34923	7.07E-77	like	0.358829	4.75E-19
		1.0 1720		MP M1-	0.00002	
Apoe	Lrp1	1.241785	6.57E-20	like	0.358829	4.75E-19
				MP_M1-		
Lpl	Lrp1	0.456847	5.49E-12	like	0.358829	4.75E-19
I				MP_M1-		
Gas6	Axl	0.349102	1.66E-08	like	0.291546	5.85E-09

 Table III. Ligand-receptor pairs deregulated after miR-21 deletion in macrophages