Appendix Comunanza V et al. (EMM-2015-05774)

- Appendix Supplementary Legends
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- Appendix Supplementary Figure S1 to S6

Appendix Supplementary Figure Legends

Appendix Figure S1. Effect of the combination of PLX4720 and bevacizumab on apoptosis of A375 cells transplanted in athymic nude mice.

Representative images of tumor cell apoptosis determined by immunofluorescence staining with M30-cytodeath antibody in A375 xenografts treated as indicated. Bar graphs indicate the M30⁺ area/tumor area (n= 3 tumors), ***P = < 0.001 versus vehicle (P = 9.71E-05).

The scale bars represent 50 μ m. The results are given as the mean ± SEM. Significance was assessed by one-way ANOVA test followed by post-hoc pairwise analysis test.

Appendix Figure S2. Vascular response of COLO205 and A375 xenograft tumors to PLX4720 and bevacizumab.

(A) Representative images of vasculature determined by CD31 immunofluorescence staining in COLO205 xenografts treated as indicated. Bar graphs indicate quantitative micro vessel density (MVD) and micro vessel area (MVA) analysis (n=6 tumors), *P < 0.05, **P < 0.01, ***P < 0.001 versus vehicle (MVD: PLX4720 P = 0.0002; bevacizumab P = 0.025; COMBO P = 4.48E-09) (MVA: PLX4720 P = 0.0080; bevacizumab P = 0.046; COMBO P = 0.025).

(B) Histogram showing the vessel size distribution in A375 xenografts treated as indicated (n=6 tumors) *P < 0.05, **P < 0.01, ***P < 0.001 versus vehicle (<100 μ m²: PLX4720 P = 0.001, COMBO P = 0.017), (500-600 μ m²: PLX4720 P = 0.022, COMBO P = 0.028), (>600 μ m²: PLX4720 P = 0.00058, COMBO P = 0.0032).

(C) Representative images of pericyte coverage determined by CD31 (green) and NG2 (red) immunofluorescence co-staining in A375 xenografts treated as indicated. Bar graphs indicate the CD31⁺NG2⁺area/tumor area in A375 xenografts (n=5 tumors).

The scale bars represent 100 μ m in (A) and 50 μ m in (C). The results are given as the mean ± SEM. Significance was assessed by one-way ANOVA test followed by post-hoc pairwise analysis test (A-B-C).

Appendix Figure S3. Transcriptional profiling of Human genes in A375 xenografts in response to PLX4720, bevacizumab and COMBO.

(A) Heatmap showing unsupervised hierarchical clustering of human differentially expressed modulated genes in the vehicle, PLX4720, bevacizumab and COMBO treatments in A375 melanoma xenograft tumors.

(B) Volcano plots of human gene expression showing fold-change and p-value for the comparison of PLX4720 (*left*), bevacizumab (*middle*) and COMBO (*right*) treatments versus vehicle. Up-regulated and down-regulated genes are colored red and blue, respectively.

(C) Summary of the functional categories of human genes significantly enriched in response to PLX4720 and COMBO. GO analyses were performed individually on down- or up-regulated genes using DAVID tools (biological process). GO terms are ranked by p-value corrected by BH method, and the number of genes is indicated. For a complete list of significantly enriched GO groups, see Tables SI-SII.

Appendix Figure S4. Transcriptional profiling of murine genes in A375 xenografts in response to PLX4720, bevacizumab and COMBO.

(A) Heatmap showing unsupervised hierarchical clustering of murine differentially modulated genes in the vehicle, PLX4720, bevacizumab and COMBO treatments in A375 melanoma xenograft tumors.

(B) Modulation of genes related to angiogenesis after bevacizumab treatment by microarray analysis.

(C) Quantitative PCR analysis of the expression of angiogenesis-related genes in bevacizumab-treated tumors in A375 xenografts. The data are presented as the mean \pm SEM of expression fold-change (log₂) compared with vehicle after normalization to the housekeeping gene (n=3), *P < 0.05; **P < 0.01; ***P < 0.001 versus vehicle (Pecam P = 0.026; Flt-1 P = 0.036; Cdh55 P = 0.0021; Pdgfb P = 0.0029; Col4a1 P = 0.018; Col4a2 P = 0.0030; Hey P = 5.31E-05; Ptn P = 0.00019).

(D) Volcano plots of murine gene expression showing fold-change and p-value for the comparison of PLX4720 (*left*), bevacizumab (*middle*) and COMBO (*right*) treatments versus vehicle. Up-regulated and down-regulated genes are colored red and blue, respectively.

(E) Heatmap representation of gene expression changes within the "Reactome Cytokine" "Signaling in Immune System", "Innate Immune System" gene set. Genes in heatmaps are shown in rows and samples in columns. Expression level is represented as a gradient from

3

high (red) to low (blue). V, P, B and C respectively indicate vehicle, PLX4720, bevacizumab and COMBO.

(F) IPA interaction networks of "Immune Response" and "ECM remodeling" modulated genes comparing COMBO- and vehicle-treated tumors. The solid lines correspond with all direct interactions in the IPA database. The dashed lines represent indirect interactions. Genes that were either up-regulated (red nodes) or down-regulated (blue nodes) are integrated in the signaling network.

Appendix Figure S5. Analysis of myeloid subpopulations in A375 xenografts.

(A) Analysis of h-GMCSF and TNFA gene expression. Real time quantitative PCR of tumors treated with PLX4720, bevacizumab or COMBO. The data are presented as the mean \pm SEM of the fold change in expression (log₂) compared with vehicle after normalization for the housekeeping gene TBP (n=3), *P < 0.05; **P < 0.01 (h-GMCSF: PLX4720 P = 0.0038, COMBO P = 0.0040; hTNFA: PLX4720 P = 0.016, COMBO P = 0.0018).

(B) Representative images of NEMs in a vehicle-treated A375 xenograft determined by CD11b, Nrp1 and Gr1 immunofluorescence staining. Bar graph indicate CD11b⁺ Gr1⁺Nrp1⁺ area/tumor area in xenografts treated as indicated (n = 5 tumors), ***P < 0.001 versus vehicle (P = 1.56E-05)

The scale bars represent 50 μ m in (B). The results are given as the mean ± SEM. Significance was assessed by and Student's *t*-test (A) and one-way ANOVA test followed by post-hoc pairwise analysis test (B).

Appendix Figure S6. Effect of long-term treatment of A375 xenografts with PLX4720, bevacizumab or COMBO.

(A) Mice bearing established A375 were treated with vehicle (n=5), PLX4720 (n=6) bevacizumab (n=5) or COMBO (n=6) for 6 weeks. Tumor growth is expressed as % change of the initial tumor, *P < 0.05, **P < 0.01 ***P < 0.001 versus vehicle (PLX4720: 2 week P = 0.0009; 3 week P = 0.014), (COMBO: 2 week P = 6.27E-05; 3 week P = 0.0006; 4 week P = 0.0020; 5 week P = 0.030).

(B) Representative images of a responder COMBO-treated tumor sections co-stained with an antibody against CD68 and an antibody anti-CCR7 (M1-like polarization) or anti-C206 (M2-like polarization).

(C) Analysis of the expression of h-GMCSF in COMBO-responder and -relapsing mice. The data are presented as the mean \pm SEM of expression fold change (log₂) compared with vehicle after normalization to the housekeeping gene TBP (n=3), *P < 0.05 (P = 0.017).

(D) Representative images of vasculature determined by CD31 immunofluorescence staining in a responder and a relapsing A375 xenografts. Bar graphs indicate quantitative micro vessel area (MVA) analysis (n=3 tumors).

(E) Representative images of hypoxia marker pimonidazole in a responder and a relapsing A375 xenografts. Bar graphs indicate the % of tumor hypoxic area (n=3 tumors), **P < 0.01 versus COMBO responders (P = 0.0062).

The scale bar represents 50 μ m in (B) and 100 μ m in (D-E). The results are presented as the mean value ± SEM. Significance was assessed by one-way ANOVA test followed by post-hoc pairwise analysis test (A) and Student's t-test (C-D-E).

Appendix Table S1. Gene Ontology analysis for Human genes highly modulated by PLX4720.

Up-Modulated			
			p value
Category	GO Term	Genes	BH corrected
GOTERM_BP_FAT	GO:0006955 immune response	CXCL1, IFIH1, CCL2, ENPP2, IFITM2, IFITM3, OAS3, RSAD2, IFI44L, OAS1, OAS2, HLA-DMA, IFI35, CXCL10, CFH, SEMA3C, CFI, DHX58, BST2, IL8, PRG4, HLA-B, TRIM22, PSMB9, DDX58, OASL, IL18BP, CXCL16, IFI6	5.56E-08
GOTERM_BP_FAT	GO:0009615 response to virus	DDX58, IFIH1, BST2, ISG15, IRF7, RSAD2, MX1, TRIM22, IFI35, STAT2	5.28E-04
GOTERM_BP_FAT	GO:0009611 response to wounding	PLAT, CXCL1, A2M, CCL2, IL8, AIF1, TNC, COL3A1, NINJ2, TGFB3, BDKRB1, EPHA3, CXCL10, NUPR1, IRF7, CFH, VCAN, ID3, CFI	0.001030
GOTERM_BP_FAT	GO:0006952 defense response	CXCL1, A2M, IFIH1, CCL2, IL8, AIF1, RSAD2, BDKRB1, HLA-B, EPHA3, CXCL10, DDX58, NUPR1, CXCL16, IRF7, CFH, CFI, MX1, DHX58, GNG7	0.00158
GOTERM_BP_FAT	GO:0030198 extracellular matrix organization	LUM, COL3A1, COL1A2, OLFML2A, POSTN, DCN, COL1A1, EMILIN1	0.0134
GOTERM_BP_FAT	GO:0043062 extracellular structure organization	TNC, LUM, COL3A1, COL1A2, OLFML2A, POSTN, DCN, COL1A1, EMILIN1	0.03061
GOTERM_BP_FAT	GO:0022610 biological adhesion	SVEP1, CCL2, TNC, COL22A1, COL3A1, NINJ2, MGP, POSTN, PCDH7, EMILIN1, VCAM1, LAMA4, COL6A3, VCAN, COL8A1, THBS2, BOC, CDH10	0.04327
GOTERM_BP_FAT	GO:0006954 inflammatory response	CXCL1, A2M, CCL2, NUPR1, IL8, AIF1, IRF7, CFH, BDKRB1, CFI, CXCL10, EPHA3	0.04359
GOTERM_BP_FAT	GO:0007155 cell adhesion	SVEP1, CCL2, TNC, COL22A1, COL3A1, NINJ2, MGP, POSTN, PCDH7, EMILIN1, VCAM1, LAMA4, COL6A3, VCAN, COL8A1, THBS2, BOC, CDH10	0.04777
Down- Modulated			
			p value
Category	GO Term	Genes	BH

GOTERM_BP_FAT	GO:0019318 hexose metabolic process	GALK2, IRS2, GBE1, ATF3, PFKFB4, ALDOC, HK2, ENO2, PGK1	1.89E-02
GOTERM_BP_FAT	GO:0005996 monosaccharide metabolic process	GALK2, IRS2, GBE1, ATF3, PFKFB4, ALDOC, HK2, ENO2, PGK1	2.66E-02
GOTERM_BP_FAT	GO:0001666 response to hypoxia	ADM, ALDOC, VEGFA, BNIP3, CITED2, VLDLR, DDIT4	0.0490
GOTERM_BP_FAT	GO:0070482 response to oxygen levels	ADM, ALDOC, VEGFA, BNIP3, CITED2, VLDLR, DDIT4	0.04855

Appendix Table S2. Gene Ontology analysis for Human genes highly modulated by COMBO.

Up-Modulated

			n voluo
			p value
Category	GO Term	Genes	вн
			corrected
		CXCL1, CSF2, IFIH1, CCL2, ENPP2, RSAD2, IFI44L, OAS1, OAS2, HLA-	
GOTERM_BP_FAT	GO:0006955	DMA, IFI35, CXCL10, LOC100133678, HLA-DRB4, CFH, CFI, DHX58, IL8,	1.37E-08
	immune response	BST2, CFB, PRG4, TRIM22, HLA-DQA1, OASL, IL18BP, GBP2, IFI6,	
		HLA-DKA	
	GO:0009615	PLSCR1, IFIH1, BST2, ISG15, IRF7, RSAD2, MX1, STAT1, TRIM22,	
GOTERM_BP_FAT	response to virus	IFI35, STAT2	6.66E-06
	GO:0006952	CXUL1, IFIH1, A2M, UCL2, AIF1, RSAD2, CXUL10, CFH, SERPINA3, CEL MX1, DHX58, GNG7, NEKBIZ, IL8, GAGE2A, CEB, GAGE2E	9 10264E-
GOTERM_BP_FAT	defense response	GAGE2B. GAGE12C. GAGE12B. EPHA3. IRE7. GAGE6. GAGE8. HLA-	05
		DRA	
	GO:0009611		
GOTERM_BP_FAT	response to	CXCL10, PLSCR1, IRF7, SERPINA3, CFH, VCAN, ID3, CFI	0.0001885
	wounding		
	00.0000054		
GOTERM BP FAT	GO:0006954	CXCL1, NFKBIZ, A2M, CCL2, IL8, CFB, AIF1, EPHA3, CXCL10, IRF7,	0 001845
	response	CFH, SERPINA3, CFI	0.001040
	•		
	GO:0009612		
GOTERM_BP_FAT	response to	CCL2, MGP, RCAN1, COL1A1, STAT1, MMP13	0.01299
	mechanical stimulus		
Down			
Down- Medulated			
Modulated			
			p value
Category	GO Term	Genes	
outegoly		denes	BH
			corrected
	GO:0070482		
GOTERM_BP_FAT	response to oxygen	CA9, ADM, ANG, HMOX1, ALDOC, CITED2	1.64E-03
	levels		
	CO:0001666		
GOTERM_BP_FAT	response to hypoxia	CA9, ADM, ANG, HMOX1, ALDOC, CITED2	2.55E-03
	GO:0009719		
COTEDM DD FAT	roopones to		0.04500
GUIERM_BP_FAI	endogenous	INSZ, GAY, ADM, ANG, HMOX1, ALDOG, ENOZ	0.01596
	stimulus		

GOTERM_BP_FAT GO:0010033 IRS2, CA9, ADM, ANG, HMOX1, ALDOC, ENO2, HSPA6 0.03828

response to organic

substance

Appendix Table S3. Gene Ontology analysis for Mouse genes highly modulated by PLX4720

Down-
Modulated

			p value
Category	GO Term	Genes	BH corrected
GOTERM_BP_FAT	GO:0001525 angiogenesis	RTN4, EMCN, PDGFA, PGF, CSPG4, VASH1, MAP3K7, OVOL2, VEGFA, HBEGF, RBPJ, ANGPT2, POFUT1	2.23E-02
GOTERM_BP_FAT	GO:0048514 blood vessel morphogenesis	RTN4, EMCN, PGF, PDGFA, PRRX1, CSPG4, VASH1, CITED2, MAP3K7, OVOL2, VEGFA, HBEGF, FOXC1, RBPJ, ANGPT2, POFUT1	3.72E-02
GOTERM_BP_FAT	GO:0001944 vasculature development	RTN4, EMCN, TBX3, PGF, PDGFA, PRRX1, CSPG4, VASH1, CITED2, MAP3K7, OVOL2, VEGFA, HBEGF, FOXC1, RBPJ, ANGPT2, POFUT1	0.03856
GOTERM_BP_FAT	GO:0001568 blood vessel development	RTN4, EMCN, TBX3, PGF, PDGFA, PRRX1, CSPG4, VASH1, CITED2, MAP3K7, OVOL2, VEGFA, HBEGF, FOXC1, RBPJ, ANGPT2, POFUT1	0.03879

Appendix Table S4. Gene Ontology analysis for Mouse genes highly modulated by COMBO.

Up-Modulated

			p value
Category	GO Term	Genes	BH corrected
GOTERM_BP_FAT	GO:0006955 immune response	CIITA, GBP6, CD8B1, C3, H2-M2, LY86, IL18, H2-D1, TLR2, SAMHD1, IGH-6, OAS2, CCL5, H2-Q7, PSMB9, OSM, PSEN2, IL1B, XCL1, CFD, LTB, CD14, H28	6.74E-08
GOTERM_BP_FAT	GO:0001819 positive regulation of cytokine production	CD83, IL18, KLRE1, TLR2, IL1B, H2-Q7, CD14	5.05E-03
GOTERM_BP_FAT	GO:0051240 positive regulation of multicellular organismal process	CD83, SLC1A3, IL18, PSEN2, KLRE1, TLR2, IL1B, H2-Q7, LTB, CD14	5.62E-03
GOTERM_BP_FAT	GO:0010033 response to organic substance	CIITA, GATM, TLR2, STAT1, CCL5, ADIPOQ, CD48, FOS, CD83, SLC1A3, APOE, IL1B, SORT1, NFE2L2, CD14, NR1H3	6.72E-03
GOTERM_BP_FAT	GO:0009611 response to wounding	CIITA, GATM, NFKBID, C3, LY86, TLR2, NINJ1, CHI3L3, CCL5, SLC1A3, IL1B, CFD, CD14	8.63E-03
GOTERM_BP_FAT	GO:0006954 inflammatory response	CIITA, NFKBID, C3, LY86, TLR2, IL1B, CHI3L3, CFD, CCL5, CD14	2.32E-02
GOTERM_BP_FAT	GO:0001817 regulation of cytokine production	CD83, IL18, KLRE1, TLR2, IL1B, H2-Q7, LTB, CD14	2.81E-02
GOTERM_BP_FAT	GO:0002684 positive regulation of immune system process	CD83, C3, IL18, PSEN2, KLRE1, TLR2, IGH-6, CFD, H2-Q7	4.99E-02
Down- Modulated			
			p value
Category	GO Term	Genes	BH

GOTERM_BP_FAT	GO:0022610 biological adhesion	AEBP1, EMCN, BCAR1, TNC, FERMT2, CLDN5, CDH5, VCL, PCDH1, COL6A2, COL6A1, ESAM, COL18A1, ICAM2, COL15A1, HSPG2, PCDH12, ITGA3, NID1, NID2, MCAM, COL5A1, NCAM1, VWF, CDH13, ITGA5, CPXM1, PECAM1, LAMC1, PARVB	7.09E-10
GOTERM_BP_FAT	GO:0007155 cell adhesion	AEBP1, EMCN, BCAR1, TNC, FERMT2, CLDN5, CDH5, VCL, PCDH1, COL6A2, COL6A1, ESAM, COL18A1, ICAM2, COL15A1, HSPG2, PCDH12, ITGA3, NID1, NID2, MCAM, COL5A1, NCAM1, VWF, CDH13, ITGA5, CPXM1, PECAM1, LAMC1, PARVB	1.36E-09

corrected

GOTERM_BP_FAT	GO:0001568 blood vessel development	COL18A1, EMCN, FLT1, EGFL7, PGF, GJA1, CDH5, COL5A1, CITED2, MAP3K7, VEGFC, HMOX1, NOTCH4, ROBO4, NOS3, SOX18, COL1A1, LOX, PLXND1, ANGPT2	4.99E-09
GOTERM_BP_FAT	GO:0001944 vasculature development	COL18A1, EMCN, FLT1, EGFL7, PGF, GJA1, CDH5, COL5A1, CITED2, MAP3K7, VEGFC, HMOX1, NOTCH4, ROBO4, NOS3, SOX18, COL1A1, LOX, PLXND1, ANGPT2	5.73E-09
GOTERM_BP_FAT	GO:0001525 angiogenesis	COL18A1, EMCN, FLT1, EGFL7, PGF, MAP3K7, VEGFC, HMOX1, NOTCH4, ROBO4, NOS3, SOX18, PLXND1, ANGPT2	3.71E-07
GOTERM_BP_FAT	GO:0048514 blood vessel morphogenesis	COL18A1, EMCN, FLT1, EGFL7, PGF, GJA1, CITED2, MAP3K7, VEGFC, HMOX1, NOTCH4, ROBO4, NOS3, SOX18, PLXND1, ANGPT2	5.84E-07
GOTERM_BP_FAT	GO:0051270 regulation of cell motion	COL18A1, KISS1, ACTN4, EGFL7, SEMA3F, BCAR1, PECAM1, ROBO4, TIE1, VCL	3.29E-04
GOTERM_BP_FAT	GO:0030334 regulation of cell migration	COL18A1, KISS1, EGFL7, BCAR1, PECAM1, ROBO4, TIE1, VCL	7.69E-03

Appendix Table S5. Top 5 Upstream Regulators selectively characterizing COMBO treatment, predicted by Upstream Regulators Analysis in IPA.

Upstream Regulator	Molecule Type	Predicted Activation State	p value of overlap	Target molecules in dataset
TNF	cytokine		3,01E-33	ACKR2,AEBP1,APOE,CD14,CDC42EP5,CDH5, CDO1,CFD,CIITA,COL15A1,COL1A1,CYP2E1, EDNRB,EFNA1,EMP1,ESM1,F2RL1,F2RL3,FP R2,FSCN1,GJA1,GPD2,GPR176,HLA- A,HMOX1,HP,HSD17B7,HSPA1A/HSPA1B,HS PA4,HSPG2,ICAM2,IFIT3,IL10RA,IL1B,ITGA5,L AMC1,LOX,LTB,MCAM,NCAM1,NFE2L2,NID1, NINJ1,NME3,NOS3,NOTCH4,NR1H3,OSM,PD E4B,PECAM1,PHLDA1,PLAT,PLK2,PPAP2A,P PP1R3C,PSMB9,RABEP2,RARRES2,RGS1,RO BO1,SEPP1,SPARC,STAT1,TIE1,TLR2,TNC,T WIST2,USP2,VCL,VEGFC,WNT5A
TGFB1	growth factor	Inhibited	2,14E-29	ACKR2,ACTA2,ACTG2,ANKRD1,APOE,CCRL2 ,CD14,CDH5,CIITA,COL18A1,COL1A1,COL4A1 ,COL4A2,COL5A1,COL6A1,COL6A2,COL6A3,C PXM1,DLL3,EDNRB,ESAM,ESM1,F2RL1,FAM1 10B,FERMT2,FLT1,FPR2,FSCN1,GATM,GJA1, GPRC5B,HMOX1,HOXA2,HS6ST2,HSPA1A/HS PA1B,HSPG2,ICAM2,IFIT3,IL10RA,IL1B,IMPDH 1,ITGA3,ITGA5,LAMC1,LOX,NCAM1,NOS3,NR 1H3,OSM,PECAM1,PILRA,PLAT,PLK2,PPP1R3 C,PTPRK,RAMP2,SAMHD1,SEMA7A,SMTN,SP ARC,STAT1,TLR2,TNC,TPM1,TWIST2,VCL,VE GFC,WNT5A
lipopolysaccharide	chemical drug		2,01E-23	ABCC5,ACTA2,APOE,CCNL1,CCRL2,CD14,CD 276,CD33,CDH5,CFD,CIITA,CLDN5,COL1A1,C OL4A1,COL4A2,COL5A1,COL6A1,CTSL,CYP2 E1,F2RL1,FLT1,FPR2,FSCN1,GJA1,H2- M2,HLA- A,HMOX1,HP,HSPA1A/HSPA1B,ICAM2,IFIT3,I L10RA,IL1B,ITGA5,LYZ,MYL9,NID1,NOS3,NR1 H3,OSM,PDE4B,PECAM1,PHLDA1,PLAT,PLK2

			,PSMB9,RASL11A,RGS1,SATB1,SEPP1,SEPT 1,SLCO2A1,SPARC,STAT1,TCAP,TLR2,TNC,T OR3A,VCL,VEGFC,XCL1
dexamethasone	chemical drug	9,41E-17	ACTA2,ACTG2,ADRBK2,AEBP1,ANKRD1,APO E,BCAR1,CFD,CLDN5,COL15A1,COL1A1,COL 4A1,COL4A2,COL6A1,COL6A2,CPE,CTSL,CYP 2E1,EDNRB,EFNA1,F2RL1,GJA1,GPR65,HP,H SD17B7,IFIT3,IL10RA,IL1B,ITGA5,LAMC1,LTB, NCAM1,NR1H3,OSM,PDE4B,PHLDA1,PLAT,PL K2,RGS1,SEPP1,SLCO2A1,SLCO2B1,SPARC, STAT1,TLR2,TNC,TPM1,VCL,VEGFC,WNT5A, XCL1
IL1B	cytokine	1,16E-15	ACKR2,ACTA2,APOE,CCRL2,CD14,CIITA,COL 1A1,CYP2E1,EFNA1,F2RL1,FLT1,FPR2,GJA1, HLA- A,HMOX1,HP,HSPA1A/HSPA1B,HSPG2,IFIT3,I L10RA,IL1B,ITGA5,LOX,NFE2L2,NOS3,NR1H3, OSM,PDE4B,PHLDA1,PLAT,PSMB9,SEPP1,SP ARC,STAT1,TLR2,VEGFC

GM-CSF	5'-GGGAGCATGTGAATGCCATC-3'	5'-GGCTCCTGGAGGTCAAACAT-3'	Human
TBP	5'-GTGACCCAGCATCACTGTTTC-3'	5'-GAGCATCTCCAGCACACTCT-3'	Human
TNF	5'-CCCATGTTGTAGCAAACCCTC-3'	5'-TATCTCTCAGCTCCACGCCA-3'	Human
TGFB1	5'- CGTGGAGGGGAAATTGAGGG-3'	5'- CCGGTAGTGAACCCGTTGATG-3'	Human
Arg1	5'-TTTTAGGGTTACGGCCGGTG-3'	5'-CCTCGAGGCTGTCCTTTTGA-3'	Mouse
CCI5	5'-GACAGCACATGCATCTCCCA-3'	5'-GTGTCCGAGCCATATGGTGA-3'	Mouse
Cd40	5'-TTGTTGACAGCGGTCCATCT-3'	5'-TCTCAAGAGCTGTGCAGTGG-3'	Mouse
Cdh5	5'-CCTGAGGCAATCAACTGTGC-3'	5'-GGAGGAGCTGATCTTGTCCG-3'	Mouse
Col4a1	5'-GGCCCTTCATTAGCAGGTGT-3'	5'-GTGAGGACCAACCGTTAGGG-3'	Mouse
Col4a2	5'-CGGCGTAATCTCAAAAGGCG-3'	5'-GGCCTCTGCTTCCTTTCTGT-3'	Mouse
Cxcl10	5'-GAGAGACATCCCGAGCCAAC-3'	5'-GGGATCCCTTGAGTCCCAC-3'	Mouse
Cxcl9	5'-TGGAGTTCGAGGAACCCTAGT-3'	5'-TTGTAGTGGATCGTGCCTCG-3'	Mouse
Fit1	5'-TACCTCACCGTGCAAGGAAC-3'	5'-AAGGAGCCAAAAGAGGGTCG-3'	Mouse
Hey1	5'-TGCAGTTAACTCCTCCTTGCC-3'	5'-CGCCGAACTCAAGTTTCCATT-3'	Mouse
II10	5'-GGCGCTGTCATCGATTTCTC-3'	5'-ATGGCCTTGTAGACACCTTGG-3'	Mouse
ll1β	5'-TGCCACCTTTTGACAGTGATG-3'	5'-TGATGTGCTGCTGCGAGATT-3'	Mouse
Nfkb1	5'-GGTCACCCATGGCACCATAA-3'	5'-GGGCCCTTCACCTTCAGTTT-3'	Mouse
Pdgfb	5'-GGAGTCGGCATGAATCGCT-3'	5'-GCCCCATCTTCATCTACGGA-3'	Mouse
Pecam	5'-AGCCAACAGCCATTACGGTTA-3'	5'-AGCCTTCCGTTCTCTTGGTG-3'	Mouse
Ptn	5'-CCGCCTTGAAGACCAGAACT-3'	5'-TTTGACTCCGCTTGAGGCTT-3'	Mouse
Stat1	5'-GATCGCTTGCCCAACTCTTG-3'	5'-ACTGTGACATCCTTGGGCTG-3'	Mouse
Тbp	5'-AGTGCCCAGCATCACTATTTCA-3'	5'-GCCCTGAGCATAAGGTGGAA-3'	Mouse
Tgfb1	5'-AGCTGCGCTTGCAGAGATTA-3'	5'-AGCCCTGTATTCCGTCTCCT-3'	Mouse
Tlr2	5'-AAGGAGGTGCGGACTGTTTC-3'	5'-GAGATTTGACGCTTTGTCTGAGG-3'	Mouse

Appendix Table S6. Primers Used for Quantitative Real Time PCR Expression Analysis











А



В

















F

С

Е







S4



В





S6