Additional file 4: PPARα tailored gene functional analysis (downregulation).

Biological function	Genes			PH6h			PH 24h			PCLS 24h			L 6h			L 5d		
Transcriptional co-repression	Klf12	Snai2	Hhex	-1.2			-1.1			-1.6			-1.7	-2.7	-2.9	-2.0	-1.6	-2.0
	Nab2	Irf2	Tsc22d1	-1.1		1.2	-1.2		1.3	-1.2	-1.1	1.3	-2.3	-2.3	-2.1	-2.7	-2.5	-2.7
	Sirt7	Nmi	Id2			-1.1						1.3	-1.9	-1.7	-2.0	-2.0	-2.0	-3.3
Transcriptional activation	Foxa3	Parp14	Atf6b				-1.2	1.1	-1.1	-1.4			-1.8	-2.0	-1.9	-1.5	-2.2	-1.7
	Camk1d	Myrf	Xbp1				-1.1						-1.7	-1.6	-1.9	-3.5	-1.6	-2.0
	Irf6	Foxa2	Mlx		-1.1							1.3	-1.6	-1.8	-1.7	-2.0	-1.8	-1.6
NF-κB (downstream activation)	Tifa	Egfr	Tnfsf12				-1.1	-1.1		-1.8	-1.2	-1.3	-3.0	-2.6	-2.3	-1.5	-3.9	-1.7
	Ufl1	Cxxc5	Ikbke			-1.1			-1.2			-1.4	-1.8	-1.6	-1.6	-1.8	-2.3	-2.9
Coagulation	F11	Avpr1a	Pde4b	-1.1			-1.2		-1.1	-1.6		-1.4	-1.7	-3.7	-2.9	-6.6	-4.1	-4.7
	Serpina10	Serpinf2	F2r	-1.2	-1.1	-1.2	-1.3	-1.2	-1.1	-1.2		1.3	-2.3	-1.8	-1.9	-1.8	-2.8	-2.2
	Klkb1	Serpina9	F7				-1.4		-1.1				-2.0	-1.8	-1.6	-2.3	-3.6	-5.2
Acute phase	Orm2	Orm3	Crp		-1.1				-1.3	-1.7	-1.7	-1.6	-5.2	-2.4	-2.2	-2.8	-4.1	-2.3
	Saa1	Saa2	Saa4		-1.1	-1.1		1.3	-1.2	-1.5	-1.2	-1.3	-15.1	-68.7	-3.7	-8.3	-1.9	-3.1
	Ier2												-2.4			-3.4		
Immunity	Il1r1	Nostrin	Il13ra1	-1.1			-1.2			-1.9	-1.2		-2.7	-2.3	-2.2	1.3	-2.2	-2.2
	Irgm2	Cish	Grem2	1.1	-1.1	-1.2	1.2	-1.1	1.3		-1.2		-1.9	-2.4	-1.7	-1.6	-2.8	-1.8
	Il18	Ly96	Sema4a		1.1	-1.1	-1.1	-1.1					-1.6	-1.6	-1.6	-3.0	-1.7	-1.6
	Ddx58	Rnf144b	Nfil3				1.1	-1.1		1.2			-1.6	-1.5	-4.3	-1.8	-3.1	-3.1
	Ifih1	Cxcl1					1.1	-1.2			-1.3		-1.6	-9.2		-2.2	-1.7	
T cells functions	Zap70	Alcam	Il18						-1.1		-1.2		-1.9	-1.9	-1.6	-3.8	-1.9	-3.0
	Sema4a	Nfil3	Ifih1	-1.1					1.3				-1.6	-4.3	-1.6	-1.6	-3.1	-2.2
	Xbp1												-1.9			-2.0		
B cells functions	Zap70	Alcam									-1.2		-1.9	-1.9		-3.8	-1.9	
Angiogenesis	Lect1	Nostrin	Tnfsf12								-1.2	-1.3	-1.8	-2.3	-2.3	-2.6	-2.2	-1.7
Renin-angiotensin system	Serpina3m	Serpina3n					-1.4	-1.2		-1.6	-1.3		-3.7	-2.8		-6.0	-2.0	
ECM	Prg4	Fgfr4	Cdh1		1.1			1.1		-1.5	-1.4		-3.1	-2.5	-2.3	-4.0	-2.6	-3.9
	Sorl1	Myh10	Slc9a3r1									-1.2	-2.2	-2.2	-2.1	-2.2	-1.7	-2.2
	Fndc4	S1pr1	Lgals8										-1.8	-1.8	-1.7	-2.2	-2.2	-1.9
	Omd	Sgms2	Arhgap26	-1.2	1.1		-1.6			1.1	1.1		-1.7	-1.7	-1.6	-2.0	-2.0	-1.6
Cytoskeleton	Fmn2	Lrrc16a	Lasp1	-1.3						-1.2			-3.7	-3.5	-2.2	-4.2	-3.2	-1.9
	Neb	Myo1b	Shroom1	1.1		1.1		-1.2	1.1		-1.2		-2.3	-2.1	-2.1	-3.3	-3.7	-2.7
	Frmd4b	Inf2	Ehbp1	1.1	1.1					1.3			-2.1	-1.9	-1.7	-1.7	-1.7	-1.9
	Cth						-1.2						-1.6			-2.5		
Tight junctions	Cldn1	Marveld2					-1.2						-2.5	-2.1		-4.7	-1.6	
Transporters	Slc41a2	Atp8b1	Slc17a2					-1.2	-1.3			-1.7	-9.3	-3.2	-1.3	-4.3	-3.0	-1.8
	Slco1a4	Slc3a1	Slc29a1	-1.3	-1.3		-1.3	-1.8			1.3		-2.6	-2.4	-2.1	-8.6	-3.8	-2.2
	Abcc6	Slc36a1	Slc25a15										-2.1	-2.1	-2.0	-2.9	-2.8	-1.8
	Slc39a14	Slc17a3	Slc13a3		-1.5			-1.5	-1.2	-1.2	-1.4		-2.5	-1.6	-1.6	-1.9	-2.7	-2.4
Vesicular trafficking	Rab4b	Rab4a	Sec23b										-2.9	-1.9	-2.1	-1.5	-1.9	-1.8
	Myo1b	Sorl1					-1.2			-1.2			-2.1	-2.2		-3.7	-2.2	
Metabolism of aa	Sds	Prodh	Cdo1					-1.2	-1.3	-1.5	1.1	-1.5	-5.0	-2.0	-1.9	-1.7	-4.9	-2.5
	Gldc	Gls2	Bcat2		1.1		-1.2	1.1					-1.9	-1.8	-2.3	-2.4	-9.2	-2.3
	Cbs						-1.4			-1.2			-1.7			-3.5		
Glycogen metabolism	Ppp1r14a	Slc37a4			-1.2		-1.2	-1.3					-7.7	-2.2		-8.0	-2.2	
Steroid metabolism	Hsd3b2	Hsd3b5						1.1		1.1	1.2		-3.9	-4.7		-14.7	-72.5	
Lipogenesis	Thrsp	Mid1ip1	Acly		1.1	1.1				1.1			-3.4	-2.4	-1.6	-5.3	-1.9	-2.4
	Nudt7			1.2			1.3			1.4			-2.1			-1.8		
Phase I &II of drug metabolism	Cyp2b10	Cyp2c70	Cyp2u1	-1.2			-1.6	-1.2		-1.9	-1.4	1.1	-2.4	-1.7	-1.6	-4.4	-11.4	-2.8
Neurotransmission	Fam134b	Hs6st1	Kcnn2			-1.4			-1.2				-2.1	-1.8	-1.8	-1.7	-1.7	-2.1
	Pnpla6	Manf	Aldh1b1		-1.2	1.1		-1.2			-1.2	1.4	-1.9	-2.5	-1.7	-1.7	-2.3	-3.8
	Gfra1	Ttll1	Myrf				-1.6	1.1					-1.8	-1.7	-1.6	-1.8	-1.6	-1.6
	Shroom			1.1			1.1						-2.1			-2.7		