

Additional file 3: PPAR α tailored gene functional analysis (upregulation).

Biological function	Genes			PH6h			PH 24h			PCLS 24h			L 6h			L 5d		
ECM	Angptl4	Lgals4	St3gal5	2.2	2.9	1.8	2.2	2.7	2.4	1.8	2.7	2.1	1.8	3.6	3.1	3.5	7.2	6.3
	Vnn1	Bace1	Inhbe	1.8	1.3	1.3	3.4	1.2	1.4	2.0	1.7	2.6	9.6	2.6	1.9	61.2	2.0	1.1
	Lamb3	Sorbs1	Adamts15	1.4			3.6						13.0	2.1	1.8	30.5	1.9	2.3
	Alpl	Hyal2	Optn	1.6	1.2	1.1	1.9	1.1	1.2	1.6	1.1	1.1	3.7	1.6	1.6	4.1	1.7	2.2
	Galnt2	Hyal1	Pvrl2	1.1	1.3	1.1	1.2	1.3	1.1	1.1	1.3	1.1	1.6	1.6	1.8	2.5	1.7	2.3
	Igsf5	Tfpi2	Igsf11	1.2		1.1	1.1	1.4	1.2	1.1	-1.5	1.3	1.7	1.7	1.9	1.7	1.9	2.9
	L3hypdh	Spon2	Arl4a			1.1				1.2	1.5	1.1	1.9	1.9	3.0	1.7	1.9	2.9
	Fbf1	Plat	Spp1	1.1	2.7			2.5			1.4		1.8			2.0		-1.2
Cytoskeleton	Krt23	Myom1	Baiap2l1	1.1	1.5	1.3	1.1	1.2	1.2	1.6	1.3	1.3	5.0	2.6	2.0	18.0	1.6	3.8
	Slk	St5	Capn2		1.3			1.1			-1.2		1.9	1.8	1.6	2.0	1.8	1.7
	Csrp3	Krt79	Larp4			1.1	1.2	1.2					1.7	1.7	1.6	2.4	3.6	1.7
	Ssh2	Eps8	Pkp2										1.6	3.1	2.1	2.1	3.8	2.1
	Rhobtb1												1.8			1.7		
Endothelial functions	Adtrp	Lipg	Angptl4	1.5		2.2	2.0		2.2	1.6		1.8	1.8	3.4	1.8	2.8	2.2	3.5
	Nrp2	E2f8									1.5		3.0	3.2		3.9	4.8	
Immunity	Mmd	Ly6d	Ctse	1.7			2.1	2.0	1.8	1.5	2.1	1.6	2.2	1.8	3.2	2.6	2.5	9.0
	Ifi202b	Hilpda	Abcb4		2.3	1.4	1.1	1.9	1.8		1.9	1.6		3.6	1.4	-1.3	1.5	1.9
	Cblb	Il1rn	Csf2rb			1.1			1.1		-1.4		1.8	4.4	2.3	1.9	4.1	10.3
Integrity of Golgi	Rab30	Caln1	Dnmbp	2.0		1.1	2.3			2.8	1.5	1.3	7.0	1.6	2.5	18.2	1.5	2.5
	Tgoln1	Sar1b	Ddhd2	1.1	1.1	1.3	1.1	1.3	1.4		1.3	1.5	3.0	1.7	3.2	2.6	1.6	3.2
	Rab9	Atp6v0a2	Tmed5	1.8		1.1	1.5		1.3	1.4		1.2	2.3	1.6	2.6	2.6	2.5	4.7
Vesicular trafficking	Pctp	Sgk2	Plip	1.3	2.0	1.1	1.8	1.7	1.3	2.1	1.7	1.2	7.3	2.1	1.5	8.3	1.5	2.0
	Stk16	Mrap	Rab43	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.1	1.7	1.8	1.5	1.7	2.6	1.9
	Myo5b	Chpt1		1.2			1.2	1.4					1.6	1.8		1.6	3.5	
Endocytosis	Rin2	Ehd4	Arl8b	1.3		1.1	1.3		1.1	1.8	1.1		2.5	2.3	1.7	2.3	3.4	2.7
	Pdzrn3	Trak1	Picalm	1.2	1.1	1.1	1.1	1.1		-2.4		1.1	1.5	1.6	2.4	5.3	1.7	2.2
	Mtm1	Plekha8	Lrp4		1.1	1.1			1.2	1.1	1.1	1.4	2.0	2.0	1.9	2.6	1.7	1.9
Neurotransmission	Qpct	Tenm3	Trpv2	1.3	1.4	1.1	1.6	1.7	1.2	1.6	1.7		2.1	2.2	6.3	6.4	3.4	11.5
	Enc1	Chrna2	Arsa	1.2	1.2	1.1	1.4	2.3		1.1	1.6	1.1	4.5	3.4	1.9	3.6	8.2	2.3
	Clstn3	Nln	Synpo		1.1	1.1		1.1	1.1	1.2	1.2	1.2	3.5	3.1	2.4	5.6	4.9	3.1
	Snrk	Slc6a9	Gmfb	1.3	1.1	1.1	1.2	1.1	1.1	1.2	1.2	1.1	1.9	1.9	1.7	1.7	1.8	1.6
	Rtn4	Slc22a3	Sema5b		1.1	1.1	1.1	1.1			1.1		1.7	1.6	1.6	3.4	2.8	2.4
	Adcy6	Mtnr1a	Unc119	1.1	-1.2	1.1	1.1		1.1			1.1	1.8	1.8	1.9	2.3	4.4	3.4
Apoptosis	Peg3	Tgm2	Bcl2l13		1.1	1.1	1.1	1.1		2.1			2.3	1.9	1.9	6.8	1.8	1.9
	Stk17b	Fas	Dram2					1.2	1.1		-1.3	1.1	1.5	2.4	1.9	2.6	2.1	2.0
	Aifm2	Casp8	Bfar	1.1	1.3		1.1	1.3		1.2	1.2	1.1	2.6	2.2	1.9	3.7	2.6	2.4
	Bag4	Arel1											1.6	2.4		1.8	2.4	
Cell cycle	Ccnd1	Wee1	S100a10	-1.2						1.1	1.3	1.1	1.8	1.8	1.5	2.2	3.4	1.7
	Usp10	Gadd45b	Cdkn1a	1.1	1.1	1.1	1.1	1.3		1.1	-1.4	1.1	1.7	9.8	5.1	1.7	6.5	2.3
	Ccng2	Aptx	Prkdc	1.1			1.1					1.1	3.8	2.0	2.4	4.2	4.3	6.1
	Sycp3	Spc25	Nek2	1.2	1.1	1.1		1.2			1.5		1.9	1.9	1.6	2.1	7.0	5.5
	Tacc2	Xrcc3	Celf2	1.7		1.1	1.6		1.1	1.1	1.1		1.5	1.6	2.2	2.8	2.0	2.2
	Ctif	Gemin2	Pus10	1.3	1.1	1.1	1.3	1.2		1.6	1.1		1.7	2.2	2.0	2.3	3.7	1.6
	Thumpd3	Khdrbs3											1.9	1.9		2.4	2.3	