

Effects of transient versus prolonged hypoxia on satellite cell proliferation and differentiation in vivo

Sukanta Jash¹ and Samit Adhya^{*}

Supplementary Information

Table S1. Lentivirus shRNA inserts

Target	shRNA Insert (sense strand)					ORF position
	Linker	sense	D loop	antisense	Linker	
Hypoxia inducible factor subunit 1 alpha	5'-	CCGGGCTCACCATCAGTTACTTACG	CGAACGTAAGTAACTGATGGTGAGCTTTTTG	-3'		209
	5'-	CCGGGCTACAAGAAACCGCCTATGA	CGAATCATAGGCGGTTTCTTGAGCTTTTTG	-3'		689
	5'-	CCGGCACCGCAGACCCAGTTACAGAAACC	CGAAGGTTTCTGTAAGTGGTCTGCTTTTTG	-3'		1823
Delta like ligand 1 (Dll1)	5'-	CCGGGCGATGAATGCATCCGATACCA	ACGGGTATCGGATGCATTTCATCGCTTTTTG	-3'		1047
	5'-	CCGGGGGCTACACAGATCAAGAACA	GAGATGTTCTTGATCTGTGTAGCCCTTTTTG	-3'		2088
	5'-	CCGGGCTGACAAGAGCAGCTTTAAG	CGAACTTAAAGCTGCTTGTGTCAGCTTTTTG	-3'		2144
Notch 1	5'-	CCGGGCGTGTGCACAGAAGTTACA	CGAATGTAACCTTCTGTGCACACGCTTTTTG	-3'		1895
	5'-	CCGGGGACAAACTGTGACATCAACA	AACGTGTTGATGTACAGTTTGTCTTTTTG	-3'		2480
	5'-	CCGGGCAGCCACAGAACTTACAAAT	AACGATTGTAAGTTCTGTGGCTGCTTTTTG	-3'		7362

Table S2. Antibodies

Antigen	Specificity	Source	Vendor	Dilution used			
				WB	Confocal	ChIP	IP
COII		rabbit	Abcam	2000	500		
COIV		rabbit	Cell Signalling		200		
Pax7		rabbit	Abcam	500	200		
HIF1 α		mouse	Abcam	200	100		
HIF2 α		mouse	Santacruz biotech	200			
Dll1		mouse	Santacruz biotech	200	100		
Notch1	Notch 1, NICD	rabbit	Cell Signalling	200	100		
NICD	NICD	rabbit	Cell Signalling	200	100	25	
Hey2		rabbit	BD bioscience	500			
Numb		goat	Abcam	200	100		
Myf5		mouse	BD bioscience	500	500		
MyoD		mouse	BD bioscience	1000	1000	50	
MyoG		mouse	BD bioscience	500			
Ccnd1		rabbit	Cell Signalling	1000			
PCNA		mouse	Santacruz biotech	1000	1000		

Table S3. Primers for transcript analyses.

Code	Sequence	Locus	Position	Orientation	Remarks
O-357	CGCACTTTCTTTCCAGAGTCA	Ccnd1	+813	S	Coding seq, exon4-5 junction For Q RT PCR
O-358	AAGGGCTTCAATCTGTTCTG	Ccnd1	+887	AS	
O-344	CGATATCGCTGCGCTCGTCGTCGAC	β -actin		S	Q RT- PCR control
O-345	GGCCAGGATAGAGCCACCAATCCAC	β -actin		AS	