

Supplementary Information

Sequences for short hairpin RNA

Name	Sequences
PGC1 α #1	GCAGAGTATGACGATGGTATT
PGC1 α #2	CCGTTATACCTGTGATGCTTT
ID2 #1	CCCTTCTGAGTTAATGTCAAA
ID2 #2	CCCCTATTGTCAGCCTGCAT
ID3	GCCCACTTGACTTCACCAAAT
TCF4	CACGAAATCTTCGGAGGACAA
Control	CCTAAGGTTAAGTCGCCCTCG

Sequences for CRISPR guide-RNA

Name	Sequences
sgPGC1 α	GACTGTCTAGTGTCTCTGTG
sgID2-#1	GCTCATCGGGTCGTCCACAG
sgID2-#2	GTCCACAGGGGTTTTGCTCC

Sequences for quantitative RT-PCR

Name		Sequences
PGC1 α	F	GTAAATCTGCGGGATGATGG
	R	AATTGCTTGCGTCCACAAA
ITGA3	F	AAGGGACCTTCAGGTGCA
	R	TGTAGCCGGTGATTTACCAT
ITGA4	F	GCTTCTCAGATCTGCTCGTG
	R	GTCACTTCCAACGAGGTTTG
ITGA10	F	GGTGGTTGTCACTGATGGAG
	R	GTCACTCTTCCAGCCTCACA
ITGB3	F	CCGTGACGAGATTGAGTCA
	R	AGGATGGACTTTCCACTAGAA

ITGB5	F	GGAGCCAGAGTGTGGAAACA
	R	GAAACTTTGCAAACCTCCCTC
CAV1	F	CAAATGCCGTCAAACTGTG
	R	CGACCCTAAACACCTCAACG
CAV2	F	TGAAGGCAGAACCATTAGGC
	R	TCATTGCGGGAATTCTCTTT
ACTN2	F	GGCTTTCCTTAGGTGGGAGT
	R	ACATGATCCAGGAGGAGGAG
LAMA4	F	CCGACAGGGTGTGAAAGAAT
	R	AGACCCGCCTGAGACGA
COL4A1	F	CCTTTTGTCCCTTCACTCCA
	R	CTCCACGAGGAGCACAGC
INHBA	F	GTGATGGCAAGGTCAACATC
	R	CTCGCAGTAGTTGGCATGAT
TGFBR2	F	GGAAACTTGACTGCACCGTT
	R	CTGCACATCGTCCTGTGG
TGFBR3	F	CAGTGAAGCTCTCCATCAAGG
	R	AGCTCCTGTTTAGCCACTGC
SMAD3	F	CCCTGGCTACCTGAGTGAAG
	R	ATTCGGGGATAGGTTTGGAG
SMAD7	F	CCAGGCTCCAGAAGAAGTTG
	R	CCAAGTGCAGACTGTCCAGA
TGFBI	F	TTGAGAGTGGTAGGGCTGCT
	R	CAAAGGAAAATCTGTGGCA
IL-8	F	GAATGGGTTTGCTAGAATGTGATA
	R	CAGACTAGGGTTGCCAGATTTAAC
IL-11	F	AGCTCTACAGCTCCCAGGTG
	R	CCGCAGGTAGGACAGTAGGT
LEF-1	F	GACGAGATGATCCCCTTCAA
	R	CTTCCTCTTCGGGATGACTG

TCF7L2	F	GCACCACTGGCACTTTGTTA
	R	ATGGCCACTGCTTGATGTC
SFRP1	F	TCTACACCAAGCCACCTCAG
	R	GGCAGCACCATCTTCTTGTA
ID1	F	CTACGACATGAACGGCTGTTACTC
	R	CTTGCTCACCTTGCGGTTCT
ID2	F	CAACACGGATATCAGCATCC
	R	CGCTTATTCAGCCACACAGT
ID3	F	TGAACTTGTGGCCTGAAGAG
	R	CATAGTTTGGAGAGCAGCCA
ID4	F	CCGAGCCAGGAGCACTAGAG
	R	CTTGGAATGACGAATGAAAACG
TCF4 (ITF-2)	F	CATAGGGAGTCCCATCTCCA
	R	GGACCAACTTCTTTGGCAAG
c-Myc	F	CTACCCTCTCAACGACAGCA
	R	AGAGCAGAGAATCCGAGGAC
TCF3	F	CCCAGGAGCCTGAGCTG
	R	CTGTCACCAACGGGAAGG
TCF12	F	GGAAGGACTTGGTTGACCACT
	R	GACCAACTACACTGGGAAGCA
GSTM4	F	TTGGAGAACCAGGCTATGGAC
	R	TTCCCAGGAACTGTGAGAAGT
COX5A	F	GGGAATTGCGTAAAGGGATAA
	R	TCCTGCTTTGTCCTTAACAACC

Sequences for ChIP qPCR

Name		Sequences
ITGA4 (-1.3)	F	TCAGTCCTGCCTTACTCTTG
	R	GTCTGCATCAAAGAGTGTGTC
ITGA4 (-1.0)	F	AGGGCACACCTGGATTG

	R	GATTCGGATTGCTCCAGC
ITGB3 (-1.0)	F	TTAAGGTCCTAGTGTTTGGGAG
	R	GATGCCAGACAACTGG
ITGB3 (-0.3)	F	ACTGAACCGGTTTCAGAGAAGG
	R	TTGGGACACATTACCCACTA
ITGB5 (-3.0)	F	AAATCACCCTTGGCACG
	R	CAAGATAGCGCCACTGC
ITGB5 (-2.0)	F	CAGAGGGAGCAATCAGGTATTC
	R	CAAGCTGGGAACCGTGT
ITGB5 (-1.5)	F	ACTGGATAACAGTAGGGTTG
	R	GGTGCAGGAAAGGATGC
ITGB5 (-1.0)	F	GATAAGATGAAAGCCTGAGC
	R	CTGTGTCTGCCTCCTAAA
ITGA10 (-3.0)	F	CAAGCAATTCTCATGCCTCAGCCTC
	R	GTCCAGTATGAGAAGTCCTCTGGCC