

SUPPLEMENTARY MATERIAL

Supplementary Table 1. Primer sequences for telomeres and a control.

Gene name	Primer sequence (5'-3')	Amplicon length (bp)
Telomere	Forward: CGGTTTGTGGGTTGGGTTGGGTTGGGTTGGGTTGGGTT Reverse: GGCTTGCCTTACCCTTACCCTTACCCTTACCCTTACCCT	>76
36B4	Forward: CAGCAAGTGGGAAGGTGTAATCC Reverse: CCCATTCTATCATCAACGGGTACAA	75

The primer sequence of TCAB1 in Table 2 is shown in Supplementary Material.

Supplementary Table 2. Primer sequences of tested genes.

Gene name	Primer sequence (5'-3')	Amplicon length (bp)
TERT	Forward: GGAGCAAGTTGCAAAGCATTG Reverse: TCCCACGACGTAGTCCATGTT	182
TCAB1	Forward: CATATCTGGGACGCATTCCT Reverse: GTTGAAGCCACAGAAGAGCTG	129
P21	Forward: GAAGCAACAGAGACGGGAAC Reverse: CTCATCGCCAACAAGGTAGC	106
SIRT1	Forward: TGTGTCATAGGTTAGGTGGTGAA Reverse: AGAGGTGTGGGTGGCAAGT	130
SIRT6	Forward: CCACCAAGCACGACCGCCAT Reverse: CGCCCTCTCCAGCACACGG	128
GAPDH	Forward: GTCATCAATGGAAATCCCATCA Reverse: CCAGTGGACTCCACGACGTAC	98

Primary reagents

Supplementary Table 3. Manufacturer and model/item No. of reagents.

Name	Manufacturer	Model/Item No.
NC film	US Millipore company	HATF00010
SDS-PAGE gel preparation kit	Shanghai Biyuntian Company	P0012A
BCA protein quantification kit	Shanghai Biyuntian Company	P0006
Prestained protein marker	Shanghai Biyuntian Company	P0066
ECL chemiluminescence Kit	Shanghai Biyuntian Company	P0018A
Cellular senescence kit β -galactosidase staining kit	Shanghai Biyuntian Company	C0602
WRAP53 polyclonal antibody	American Proteintech	14761-1-AP
SIRT6 polyclonal antibody	American Proteintech	13572-1-AP
P53 monoclonal antibody	US CST Corporation	2527
P21 monoclonal antibody	Abcam, UK	Ab109199
GAPDH polyclonal antibody	Shanghai Biyuntian Company	AG019
Goat anti-rabbit IgG secondary antibody	Beijing Yiqiao Shenzhou company	SSA004
0.25% trypsin	American HyClone	SH30042.01
Streptomycin	American HyClone	SV30010
Fetal bovine serum	Israel BI	04-001-1A
DME/F12 medium	American Sigma company	D6421
DMSO	American Sigma company	D4540
TRIzol	US Invitrogen	15596-018
GoScript reverse transcription system	Promega, USA	A5001
qPCR Master Mix	Promega, USA	A6001
primer	Shanghai Shenggong Company	—
Rhesus monkey bone marrow Mesenchymal stem cell culture medium	Guangzhou Cyagen Corporation	MKRMA-90011
Osteogenic differentiation medium	Guangzhou Cyagen Corporation	MKRMA-90021
Adipogenic differentiation medium	Guangzhou Cyagen Corporation	MKRMA-90031
Chondrogenic differentiation medium	Guangzhou Cyagen Corporation	MKRMA-90041
Pentobarbital sodium	Sigma	57-33-0
CCK-8	Shanghai DOJINDO Company	CK04-3000T
Mouse anti-human CD45	US BD company	555555
Mouse anti-human CD73	US BD company	550257
Mouse anti-human HLA-ABC	US BD company	555482
Mouse anti-human CD90	US eBioscience	11-0299-42
Mouse anti-human CD105	US eBioscience	11-0909-42
Mouse anti-human HLA-DR	US eBioscience	11-1057-42
IL-11 ELISA kit	Hangzhou Lianke Biological Company	EK1112
GM-CSF ELISA kit	US Proteintech	KE00003
IL-6 ELISA kit	US eBioscience	BMS641/2
Angiogenic antibody arrays	Abcam, UK	Ab197419