

## Supplementary Materials

# RBM4a-SRSF3-MAP4K4 Splicing Cascade Constitutes a Molecular Mechanism for Regulating Brown Adipogenesis

Hui-Yu Peng <sup>1</sup>, Yu-Chih Liang <sup>1,2</sup>, Tse-Hua Tan <sup>3</sup>, Huai-Chia Chuang <sup>3</sup>, Ying-Ju Lin <sup>4</sup> and

Jung-Chun Lin <sup>1,2,\*</sup>

<sup>1</sup> School of Medical Laboratory Science and Biotechnology, College of Medical Science and Technology, Taipei Medical University, Taipei 110, Taiwan; m609104003@tmu.edu.tw (H.-Y.P.); ycliang@tmu.edu.tw (Y.-C. L.)

<sup>2</sup> Ph.D. Program in Medicine Biotechnology, College of Medical Science and Technology, Taipei Medical University, Taipei 110, Taiwan

<sup>3</sup> Immunology Research Center, National Health Research Institutes, Zhunan 35053, Taiwan; ttan@nhri.org.tw (T.-H.T.); cinth@nhri.org.tw (H.-C.C.)

<sup>4</sup> School of Chinese Medicine, China Medical University, Taichung 40402, Taiwan; yjlin@mail.cmu.edu.tw

\* Correspondence: lin2511@tmu.edu.tw; Tel.: +886-2-2736-1661 (ext. 3330)

**Supplemental Table S1. PCR Primers.**

Target	Forward	Reverse
MAP4K4-AS	agagcccaagcctcactatgac	tctgtctgcttggtctattct
MAP4K4-cDNA	atcaagcttatggcgaacgactctccgcg	atcgaattcccagctcagaagagaagtcct
SRSF3-AS	gtcccttggttgtaagggt	aaaagcttctccttcttggtg
SRSF3-cDNA	atcgaattcatgcatcgtgattcctgtc	atcgatactttcctttcatttgacctag
SRSF3(F30A) mutant	acggaattggaacgggctgctggctactatggaccactc	gagtgggtccatagtagccagcagcccgttccaattccgt
MAP4K4-minigene	atcgaattccacgaccacaggaggccgcac	atcaagcttctggtggaatttctctgtcc
MAP4K4-minigene (E-mut)	ctcaggaccatgtccacgttgccgcagtgaggggctca	tgagcccctcactgcggcaacgtggacatgggtcctgag
MAP4K4-minigene (I-mut)	cagacagacgcgctgtgtctgtttatttaaactactgt	acagtaagttaaataaacagacaacagcgcgtctgtctg
SRSF3-minigene	atcgatatcaacactatgtggctgcgctg	atcgagctcctgctccggctgcgagagaag
SRSF3-minigene (E-mut)	ccggcagcctcacctcaccaatacaagcttgtaaa cccaaaa	ttttgggttcttctgtctgtattggtgaggtgaggctgcccgg
SRSF3-minigene (I-mut)	accctaaactagtaagttatacatgcttatacagtttact	agtaaaactgtataagcatgtataacttactagttttggt
CMV	tgggaggtctatataagcaga	
GAPDH	cggagtcaacggatttggtcgtatg	agccttctccatgggtggtgaagac

**Supplemental Table S2. qPCR Primers.**

Target	Forward	Reverse
PRDM16	gacattccaatcccaccaga	cacctctgtatccgtcagca
BMP2	ccaagagacatgtgaggatt	ttagtggagttcaggtggct
BMP7	gaaaacagcagcagtgacca	gggtggcgttcattgtaggagt
UCP1	tacacggggacctaataatgct	ggctactggaagatatggc
Cited1	cgggggtcacgcaaatgga	ctcatccaccgggtcagaa
Hoxa9	cagtgtatcatcaccaccacca	gaggagaaccacaagcatagt
Gapdh	cggagtcaacggatttggtcgtatg	agccttctccatgggtggtgaagac