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Supplementary Figures

2 **Supplementary Figure S1.**

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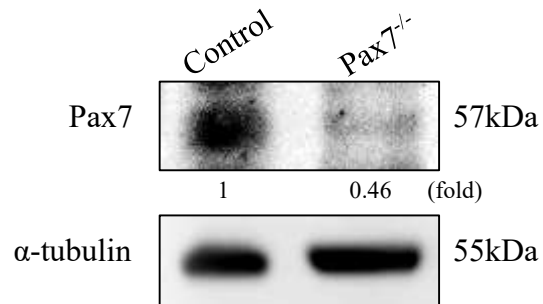
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12 **Supplementary Figure S1.** Wild-type (WT) C2C12 cells and Pax7 knockdown

13 C2C12 (Pax7^{-/-}) cells were examined by Western blot.

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Supplementary Materials

16 Antibodies

Protein	Application	Vendor	Catalog number
α -tubulin	WB	Abcam	ab176560
β -catenin	WB	Santa Cruz	sc-133240
Desmin	WB, IHC, IF	Abcam	ab15200
Dystrophin	WB, IF	Abcam	ab15277
GSK-3 α/β	WB	Santa Cruz	sc-56913
Myogenin	WB	Santa Cruz	sc-52903
MyHC	WB, IHC	ThermoFisher	PA5-31466
Pax7	WB, IHC, IF	Novus Biologicals	NBP2-32894
p- β -catenin	WB	Cell signaling	2009S
p-GSK-3 β	WB	Santa Cruz	sc-135653

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18 Primers

Gene	Species	Forward primer	Reverse primer
GAPDH	Mouse	ACCACAGTCCATGCCATCAC	TCCACCACCCTGTTGCTGTA
Atrogin 1	Mouse	GAGTGGCATCGCCCAAAGA	TCTGGAGAAGTTCCCGTATA AGT
IGF-1	Mouse	GGACCGAGGGGCTTTTACTT	GTGGGGCACAGTACATCTCC
MyoD	Mouse	GAGGATCCGATGGAGCTTCT ATCG	CGGATCCTCTCAAAGCACCT GATA
Myostatin	Mouse	CTGGTCCTGGGAAGGTTACA	ACGCTACCACGGAAACAATC
Murf 2	Mouse	GTCCTGGTGACACAGATTGG AT	TGCTGCCTATGTGCTTCTCA
Pax7	Mouse	GGTCCCCAGGATGATGAGA	TTGATGAAGACCCCAACCAAG

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20 Inhibitors

Gene	Name	Vendor	Catalog number
GSK-3 β	GSK-3 inhibitor	Santa Cruz	sc-202634A
Wnt/ β -catenin	IWR-1	Enzo	BML-WN103

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22 Treatment

Drug	Vendor	Catalog number
Melatonin	Sigma	SLBQ9501V

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24 shRNA

Gene	Species	Vendor	Sequence
Pax7	Mouse	RNAi core, Taiwan	CCGTCACAAGATAGTGGAAAT

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26 siRNA

Gene	Species	Vendor	Catalog number
β -catenin (siRNA)	Mouse	Santa Cruz	sc-29210

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28 Mimics

Mimic	Species	Vendor	Sequence (5'-3')
miR-3475-3p	Mouse	AllBio	UCUGGAGGCACAUGGUUGAA
N.C.	Mouse	AllBio	UUGUACUACACAAAAGUACUG

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30 3' UTR of Pax7

Gene	Species	Vendor	Sequence
Pax7 miR-3475-3p WT	Mouse	MDBio, Inc.	CCTCCAGA
Pax7 miR-3475-3p MUT	Mouse	MDBio, Inc.	CCGGGGGA

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