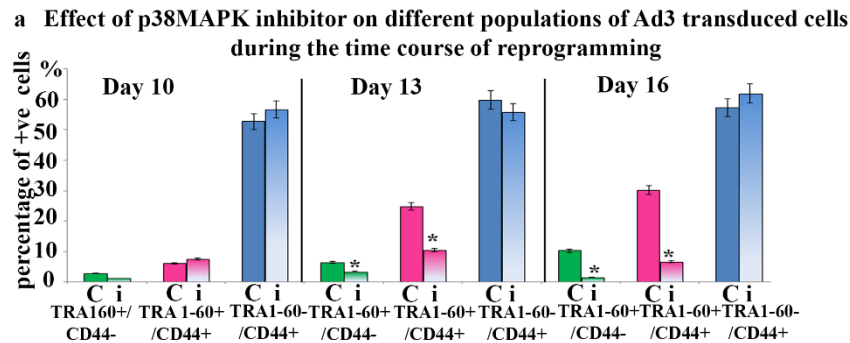


Supplement Information for the paper:

A critical role for p38MAPK signalling pathway during reprogramming of human fibroblasts to iPSCs

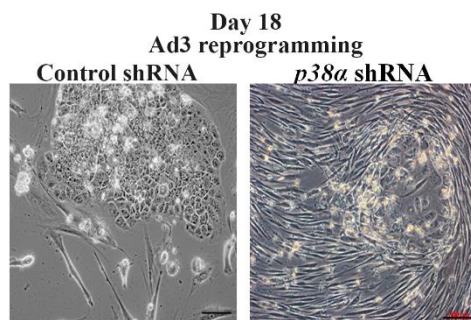
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Supplement Figure 1.



Supplement Figure 1. Application of p38MAPK inhibitor (SB202190) abrogates iPSC generation from adult fibroblasts (a) Graphic representation of flow cytometric analysis data indicating a significant impact of *p38α* MAPK downregulation on the percentage of TRA1-60+/CD44- and TRA1-60+/CD44+ cells at Days 13 and 18. Results are presented as mean ±S.E.M, n=3. Student t-test was carried out to detect significant changes between Control and p38MAPK inhibitor (p38MAPKi) group. * p <0.05.

Supplement Figure 2.



Supplement Figure 2. Inhibition of *p38α* MAPK signalling prevents generation of iPSCs from adult fibroblasts. (a) Phase-contrast images of the colony morphology developed at Day 18 from the Ad3 Control shRNA and *p38α* shRNA transduced cells. Scale bar =100μm.

Supplement Table 1

Gene	Forward primer sequence (5'→3')	Reverse primer sequence (5'→3')
<i>MKK3</i>	CGGCTGCAAGCCCTACAT	CTCCAGACGTCTGGACTTGACA
<i>MKK6</i>	GGCCCCCTGAAAGAATAAACCC	CGAAGGATGGCCAACCTCAATC
<i>p38α</i>	GGGTACGTGTGGCAGTGAA	ACGTCCAACAGACCAATCACA
<i>OCT4</i>	GAGAACCGAGTGAGAGGCAACC	CATAGTCGCTGCTTGATCGCTTG
<i>NANOG</i>	AATACCTCAGCCTCCAGCAGATG	TGCGTCACACCATTGCTATTCTTC
<i>KLF4</i>	TTACCAAGAGCTCATGCCACC	GCGAATTTCCATCCACAGCC
<i>SOX2</i>	TTGTTCGATCCCAACTTTCC	ACATGGATTCTCGGCAGACT
<i>cMYC</i>	CACCAGCAGCGACTCTGA	CTGTGAGGAGGTTTGCTGTG
<i>CDX2</i>	CTCGGCAGCCAAGTGAAAAC	CTCCTTTGCTCTGCGGTTCT
<i>SOX17</i>	CGCACGGAATTTGAACAGTA	GGATCAGGGACCTGTCACAC
<i>GATA4</i>	TCCAAACCAGAAAACGGAAG	AAGGCTCTCACTGCCTGAAG
<i>LEFTY1</i>	AGAGCTGGCGATGACTGAAC	AAACTGAGCAAGGGCTCTCC
<i>SOX1</i>	GGAATGGGAGGACAGGATTT	ACTTTTATTTCTCGGCCCGT
<i>PAX6</i>	GCCTATGCAACCCCCAGT	TCACTTCCGGGAACCTGAAC
<i>NESTIN</i>	GAGAGGGAGGACAAAGTCCC	CCACTTCCTCAGACTGCTCC
<i>FGF5</i>	CACTGATAGGAACCCTAGAGGC	CAGATGGAAACCGATGCCC
<i>T</i>	CAGTGGCAGTCTCAGGTTAAGAAGGA	CGCTACTGCAGGTGTGAGCAA
<i>FOXA2</i>	GCATTCCCAATCTTGACACGGTGA	GCCCTTGCAGCCAGAATACACATT
<i>MIXL1</i>	GAGACTTGGCACGCCTGT	GGTACCCCGACATCCACTT
<i>MSX2</i>	TGGATGCAGGAACCCGG	AGGGCTCATATGTCTTGCGG
<i>NODAL</i>	GTACATGCTGAGCCTCTACCG	CAAAAGCAAACGTCCAGTTCTG
<i>SMAD3</i>	TCCAGTCTCCCAACTGTAACC	TGTCTCCTGTACTCCGCTC
<i>SMAD2</i>	CCCTCACTCACTGTAGATGG	CACTCCTCTTCCTATATGCCT
<i>c-JUN</i>	GCTCTGGGAAGTGAGTTCTG	CTCCCGCACTCTTACTTGTC
<i>ATF2</i>	GCCAATTGT//CCCTGTACCA	GTCCTAACCAATCCGCTACC
<i>ELK1</i>	TCCTACGCATACATTGACCC	ACTGGATGGAACTGGAAGG
<i>E2F2</i>	AGGAGCTGATGAACACGGA	CGGCAATCACTGTCTGCT
<i>CDK2</i>	TGTACCTCCCCTGGATGAAG	CATCCTGGAAGAAAGGGTGA
<i>CDK6</i>	AGGATAAGCCAACCTGAGAC	ACTGAGAGTATGACTGGCAA
<i>CDK1</i>	TTTTCAGAGCTTTGGGCACT	CCATTTTGCCAGAAATTCGT
<i>CCND1</i>	GGCGGAGGAGAACAAACAG	AGGCGGTAGTAGGACAGGA
<i>CCNB1</i>	AACTTTCGCCTGAGCCTATTTT	TTGGTCTGACTGCTTGCTCTT
<i>E-CADHERIN</i>	TGCCCAGAAAATGAAAAAGG	GTGTATGTGGCAATGCGTTC
<i>N-CADHERIN</i>	ACAGTGGCCACCTACAAAGG	CCGAGATGGGGTTGATAATG
<i>GAPDH</i>	TGCACCACCAACTGCTTAGC	GGCATGGACTGTGGTCATGAG