

Supporting Information

**Polyamines Regulate Gene Expression by Stimulating Translation of Histone
Acetyltransferase mRNAs**

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Table S1. Primers used in this study.

Fig. S1. Protein levels of various transcription factors.

Table S1 Primers used in this study.

| No. | Primer used | Nucleotide sequence |
|-----|-----------------------|---|
| P1 | 5'-Gcn5 (RT) | 5'-GAAGCTTGAGAACTAGGGGTCTTCTCAGC-3' |
| P2 | 3'-Gcn5 (RT) | 5'-GGTGTCTGTGTCCTCTTCCTTGTGAACAGA-3' |
| P3 | 5'-Hat11 (RT) | 5'-ACACAGCAATCGAGCTGAAACTAGTTCGTT-3' |
| P4 | 3'-Hat1 (RT) | 5'-TTGCCTTCAACATCATCTGCCTCCACACAA-3' |
| P5 | 5'- β -actin | 5'-CAGGTCATCACTATTGGCAACGAGCGGTTC-3' |
| P6 | 3'- β -actin | 5'-GGAGCCAGAGCAGTAATCTCCTTCTGCATC-3' |
| P7 | 5'-Ki-67 | 5'-TCAAGGCGAGCCTCAAGAGATAGCTTCTGT-3' |
| P8 | 3'-Ki-67 | 5'-CAGAAGTGGGCTCTACTATGTTTCTGCCAG-3' |
| P9 | 5'-Lyar | 5'-GAAGTACGGAGGCAAAGGCTATGAAGCCAA-3' |
| P10 | 3'-Lyar | 5'-TTCGGAGAAGATATCCCACACCTGCTCTAG-3' |
| P11 | 5'-Pena | 5'-GGACTTAGATGTGGAGCAACTTGAATCCC-3' |
| P12 | 3'-Pena | 5'-CAGGTACCTCAGAGCAAACGTTAGGTGAAC-3' |
| P13 | 5'-MCM-2 | 5'-GGATGGAGAGGAACTCATTGGTGATGGCAT-3' |
| P14 | 3'-MCM-2 | 5'-GCTGTCAGCTCCTCCACATCTTCATCATCC-3' |
| P15 | 5'-RPL30 | 5'-CTGGAGTCGATCAACTCTAGGCTCCAATT-3' |
| P16 | 3'-RPL30 | 5'-ACCTGGGTCAATGATAGCCAGTGTGCATAC-3' |
| P17 | 5'-Ki-67 P | 5'-TCGCAGCCTGGCCCCACCTCTGGACTT-3' |
| P18 | 3'-Ki-67 P | 5'-TACCGACCACGGCCACCCGCGGCCTTCGCT-3' |
| P19 | 5'-Lyar P | 5'-AGCCCCATCACACAGCGCTGCGA-3' |
| P20 | 3'-Lyar P | 5'-AGACGGAAGTGACGGCGGCGGAA-3' |
| P21 | 5'-Pena P | 5'-CTTGGTATCTTCTTTGGAGAAGCGTTCACG-3' |
| P22 | 3'-Pena P | 5'-GCGCCACGGAAGTGGAAGTCACAGGCAAAT-3' |
| P23 | 5'-MCM-2 P | 5'-GCCATACCGACACTTAGATACCTAGGTCAC-3' |
| P24 | 3'-MCM-2 P | 5'-TAGAATGTTTGGGCACGCCACACCAGAAA-3' |
| P25 | 5'-Gcn5 (EcoRI) | 5'-TATAGAATTCGCGCCGGTTGCCCATGCGGC-3' |
| P26 | 3'-Gcn5 (BamHI) | 5'-TAATTGGATCCCCCCCCTTCTACCCCGG-3' |
| P27 | 5'-Gcn5 (delta-55-63) | 5'-ATTATAAGAATTCGCCCATGCGGCCCTAGG-3' |
| P28 | 5'-Gcn5 (delta-21-54) | 5'-CTTCGAATTCGCGCCGGTTGCTCCGCTGCG-3' |
| P29 | 3'-Gcn5 (delta-21-54) | 5'-CGCAGCGGAGCAACCGGCGGAATTCGAAG-3' |
| P30 | 5'-Gcn5 (delta-6-24) | 5'-CTGGGAGCGCGGAGGCCATGGCGGAACCTT-3' |
| P31 | 3'-Gcn5 (delta-6-24) | 5'-AAGGTTCCGCCATGGCCTCCGCGCTCCCAG-3' |
| P32 | 5'-Gcn5 (NC-miR) | 5'-TGCGGCCCTACGGAAGTCAGCCCTTCGGCGCTCCGCTGCGGGGGA-3' |

P33 3'-Gcn5 (NC-miR)
5'-TCCCCCGCAGCGGAGCGCCGAAGGGCTGACTTCCGTAGGGCCGCA-3'

P34 5'-Gcn5 (C-miR)
5'-TGCGGCCCTAGCGCTGAGCCCGGAACGCGCCTCCGCTGCGGGGGA-3'

P35 3'-Gcn5 (C-miR)
5'-TCCCCCGCAGCGGAGGCGCGTTCGGGCTCAGCGCTAGGGCCGCA-3'

P36 5'-Hat1 (EcoRI) 5'-ATGAATTCTTTGTCCTTCCTCAGCTGCGGG-3'

P37 3'-Hat1 (BamHI) 5'-CGAACTGGATCCAGCTCGATTGCTGTGTTG-3'

P38 5'-Hat1 (delta-28-38) 5'-ATTATGAATTCTCAGCTGCGGGCGCTCGGA-3'

P39 5'-Hat1 (delta-2-30) 5'-ACGAATTCTTTGTCCTAATGGCGGCCTT-3'

P40 3'-Hat1 (delta-2-30) 5'-CTCCAAGGCCGCCATTAGGACAAAGAATTC-3'

P41 5'-pEGFP (seq) 5'-GGACTTTCATAATGTTCGTAACAACCTCCGC-3'

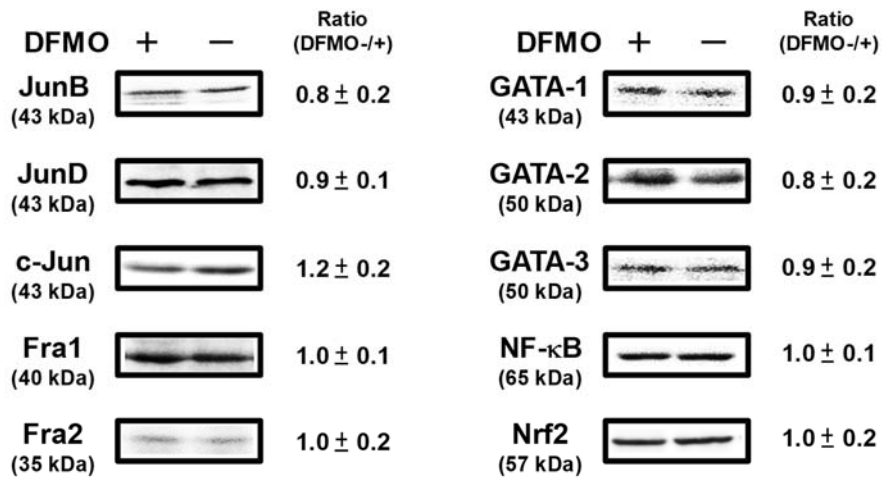


Fig. S1. **Protein levels of various transcription factors.** FM3A cells were cultured in the presence and absence of 50 μ M DFMO, cell lysate was prepared, and protein levels of various transcription factors were examined by Western blotting. Antibodies against JunB and GATA-1 were purchased from Cell Signaling Technology, those against JunD, Fra1 and Fra2 were from Abcam, and those against c-Jun, GATA-2, GATA-3, NF- κ B and Nrf2 were from SANTA Cruz Biotechnology. Values are means \pm S.E. of triplicate determinations.