

Supplementary Information

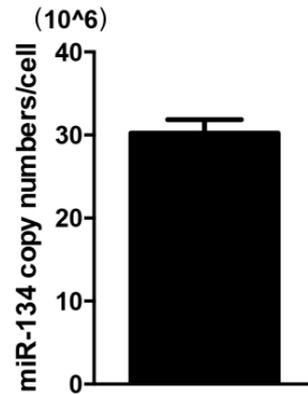
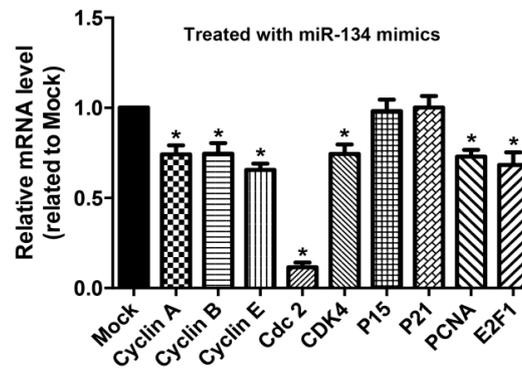


Figure S1. The expression level of miR-134 in proliferating hCMPCs. Data were from 3 independent experiments.

a



b

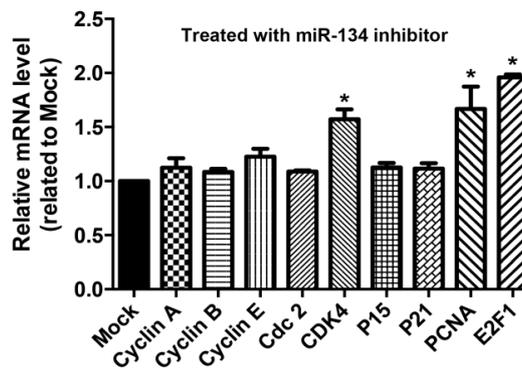


Figure S2. Modulation of miR-134 in hCMPCs changes the expression level of cell cycle genes. (a) Relative expression of cell cycle genes in hCMPCs treated with miR-134 mimics; (b) Cell cycle genes were examined in hCMPCs with the inhibition of miR-134. 18s RNA was used as the internal reference. * $p < 0.05$, Data were from 3 independent experiments.

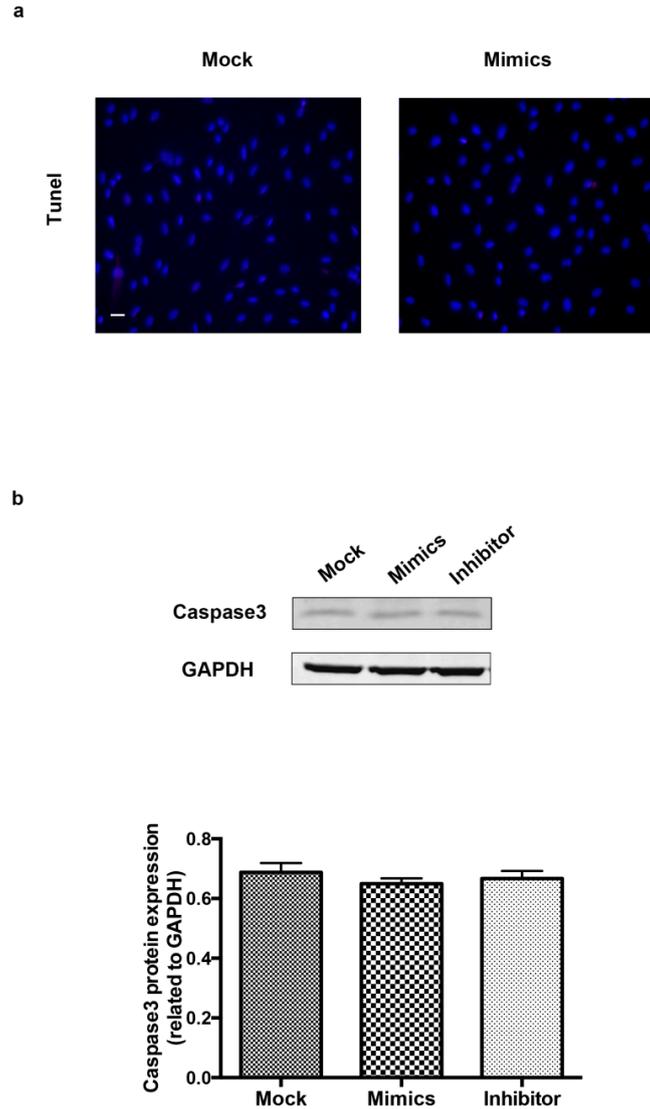


Figure S3. miR-134 does not cause hCMPCs apoptosis. **(a)** TUNEL staining assay for cell apoptosis detection; **(b)** Expression of Caspase 3 in hCMPCs transfected with miR-134 mimics or inhibitor. miR-134 mimics or inhibitor did not induce hCMPCs apoptosis. Bar = 75 μ m. Data were from 3 independent experiments.

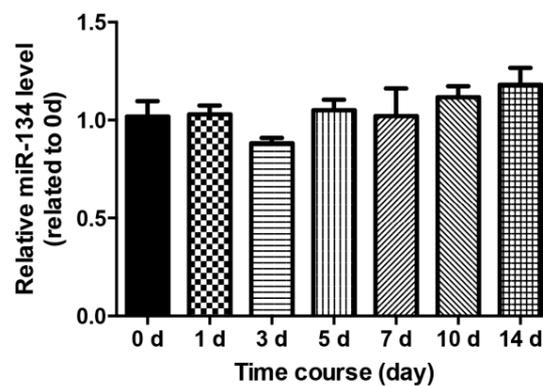


Figure S4. The expression level of miR-134 remains unchanged during hCMPCs differentiation. Data were from 3 independent experiments.

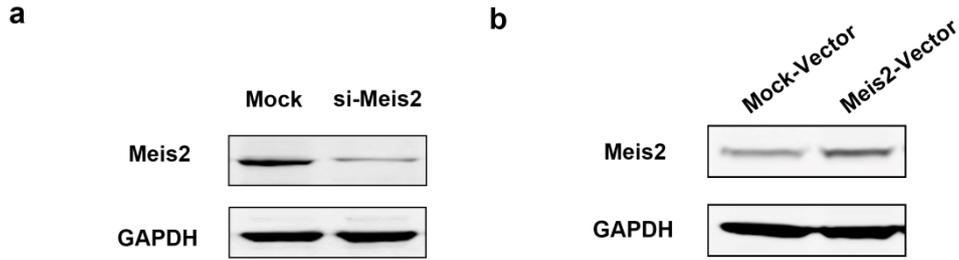


Figure S5. Expression of the Meis2 protein is altered under different treatments. The Meis2 protein level was altered in hCMPCs that were treated with si-Meis2 (a) or Meis2 overexpression vector (b).

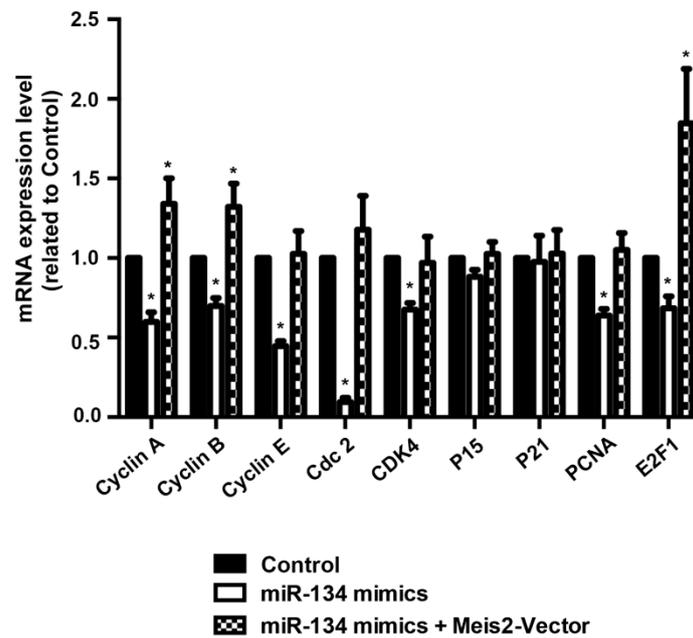


Figure S6. Over-expression of Meis2 prevents the effect of miR-134 on cell cycle genes. * $p < 0.05$, Data were from 3 independent experiments.

Table S1. Primer sequences for gene expression detection.

Genes	Primer Sequences
<i>Meis2</i>	5'-GTGAGCCAAGGAGCAGCATA-3' 5'-ACATGTAGTGCCATTGCCCA-3'
<i>Cyclin A</i>	5'-AACTTCAGCTTGTGGGCACT-3' 5'-AAACTCTGCTACTTCTGGGGG-3'
<i>Cyclin B</i>	5'-TGCAGCACCTGGCTAAGAAT-3' 5'-TAGCATGCTTCGATGTGGCA-3'
<i>Cyclin E</i>	5'-AAAGTTGCACCAGTTTGCCT-3' 5'-TCAGGGGACTTAAACGCCAC-3'
<i>Cdc2</i>	5'-CTTTCTTTCGCGCTCTAGCC-3' 5'-AATCGGGTAGCCCGTAGACT-3'
<i>CDK4</i>	5'-GCGTGAGGGTCTCCCTTGAT-3' 5'-ACCGACACCAATTCAGCCA-3'
<i>P15</i>	5'-ACTAGTGGAGAAGGTGCGAC-3' 5'-GCCCATCATCATGACCTGGA-3'
<i>P21</i>	5'-AGCTGCCGAAGTCAGTTCCTT-3' 5'-GTTCTGACATGGCGCCTCCT-3'
<i>PCNA</i>	5'-GGCTCTAGCCTGACAAATGC-3' 5'-TCTAGCTGGTTTCGGCTTCAG-3'
<i>E2F1</i>	5'-GCCATCCAGGAAAAGGTGTGA-3' 5'-GTGATGTCATAGATGCGCCG-3'
<i>MEF2C</i>	5'-AGATACCCACAACACACCACGCGCC-3' 5'-ATCCTTCAGAGAGTCGCATGCGCTT-3'
<i>GATA-4</i>	5'-GACAATCTGGTTAGGGGAAGC-3' 5'-ACCAGCAGCAGCGAGGAGAT-3'
<i>Nkx-2.5</i>	5'-CGCCGCTCCAGTTCATAG-3' 5'-GGTGGAGCTGGAGAAGACAGA-3'
<i>MHC</i>	5'-GAAGCCCAGCACATCAAAAG-3' 5'-GATCACCAACAACCCCTACG-3'
<i>Actin</i>	5'-TCCTGATGCGCATTTTTATTC-3' 5'-AACACCACTGCTCTAGCCACG-3'