

**Supplementary table 1. Primer list**

<b>Primers</b>	<b>Sequences (5'-3')</b>
hsa-miR-214-3p Forward	GACAGCAGGCACAGACA
hsa-miR-214-3p Reverse	GTGCAGGGTCCGAG
PTEN-Forward	AATCCCAGTCAGAGGCGCTATGT
PTEN-Reverse	GATTGCAAGTCCGCCACTGAACA
GAPDH- Forward	GGTGGTCTCCTCTGACTTCAA
GAPDH- Reverse	GTTGCTGTAGCCAAATTCGTTGT
U6 Forward	CTCGCTTCGGCAGCACA
U6 Reverse	AACGCTTCACGAATTTGCGT
Cel-miR-39-3p Forward	GGGTCACCGGGTGTAATC
Cel-miR-39-3p Reverse	GAGAGGAGAGGAAGAGGGAA

**Supplementary table 2. Sequences list of miR-214a-3p mimics or inhibitor**

	<b>Sequences (5'-3')</b>
hsa miR-214-3p mimics	ACAGCAGGCACAGACAGGCAGU
hsa miR-214-3p mimics NC	UUUCCGAACGUUCACGUTT

**Supplementary Figure 1. HUVECs and H9C2s were transfected by transfection reagents. (A)** qRT-PCR showed that miR-214 mimics or miR-214 negative controls transfected HEK-293T cells successfully. (n=3). **(B)** Expression level of PTEN in NRCMs after transfection with Vector or PTEN followed by administration miR-214<sup>OE</sup>-Exo. (n=3). All data are mean  $\pm$  SEM. Statistical analysis was performed with t test. \*\*P < 0.01, \*\*\*\*P < 0.001.

