

Supplemental Figure:

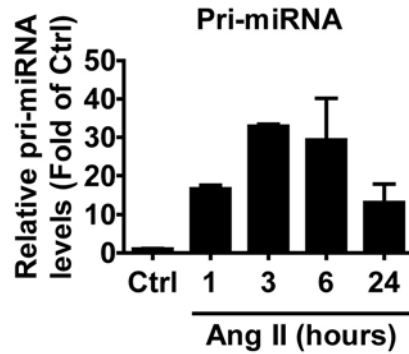


Fig. S1: Upregulation of intergenic precursor of miR-132 and miR-212 (pri-miRNA). Levels of miR-132/212 pri-miRNA were analyzed by Taqman pri-miRNA assay in control (Ctrl) or Ang II-treated (100 nM) RVSMC at indicated time points. Data is representative of four independent experiments performed in duplicate.

Supplemental Tables:

Table S1. Alignment* summary of smRNA-Seq data from RVSMC (control and treated with AngII at indicated time points).

	Control	AngII-1h	AngII-3h	AngII-24h
Total Reads	17,543,266	15,316,955	16,882,569	17,394,986
Aligned Reads	10,025,034	9,124,473	10,242,621	10,129,837
Unique Aligned Reads	7,437,728	6,854,922	7,834,212	7,827,523
Multiple Aligned Reads	2,587,306	2,269,551	2,408,409	2,302,314
Gapped Aligned Reads	17,613	14,077	13,904	26,046
Quality Filtered Reads	3,146,579	2,196,319	2,510,771	2,859,013
Homopolymer Filtered Reads	1,148	1,219	1,631	1,081

* Raw sequences for each sample were aligned against Rat Nov. 2004 (rn4) assembly using Novoalign software (<http://www.novocraft.com>).

Table S2. Annotation summary of the aligned reads from RVSMC (control and treated with AngII at indicated time points).

Order	Genomic feature	Control	AngII-1h	AngII-4h	AngII-12h
1	mature miRNA	8,518,139	8,030,715	9,044,476	8,888,575
2	pre-miRNA region	25,809	26,399	26,724	24,340
3	rRNA	240,883	198,145	199,175	243,809
4	tRNA	104,889	79,967	72,941	161,265
5	other ncRNA	39,311	28,233	32,835	32,235
6	Refseq gene	472,189	314,870	392,874	349,385
7	intergenic region	614,528	438,869	466,958	411,548
Total Aligned Reads		10,015,748	9,117,198	10,235,983	10,111,156

Table S3. Primers used in the RT-QPCR.

Primer name	Forward Sequence (5' to 3')	Reverse Sequence (5' to 3')
RNU6A-F	GATGACACGCAAATTCGTG	Qiagen miScript universal primer
miR-132-F	TAACAGTCTACAGCCATGGTCG	Qiagen miScript universal primer
miR-7a-F	TGGAAGACTAGTGATTTTGTGT	Qiagen miScript universal primer
rCYPA	TATCTGCACTGCCAAGACTGAGTG	CTTCTTGCTGGTCTTGCCATTCC
mGAPDH	CCTGCACCACCAACTGCTTAG	CATGCGGTGGCAGTGATGGCATG
rPTEN	GAAGACCATAACCCACCACAGC	CGGACCACAAATCATTACACCAG TCCG
mPTEN	Same as the rat sequence.	
rMCP-1	CGACTCCAAGATGATCCCAATGAGTCG	TCTCTTGAGCTTGGTGACAAATA CTACA
mMCP-1	AGGTCCCTGTGTCATGCTTCTGG	CAGCACTTCTTTGGGACACCTGC TG
rRASA-1	CGGCGATAGCTGGGCAGATAAGCCG	CAGAAATACTCCACCGACACTG AGATA
rZEB2	CGGAGACCACAGCATACCCACTCCG	CAGGACCGCCTTGATCTCTTC
rFOXO3	CGGTACAACCAGTCCCTTAAACAGTACCG	AAAGGTGGCTGGTCTGTTCTCC
rARGF11	CGGTCTGGTGTGAAAGAGGGTGACCG	CGGAGGGAGGAGAAGAGCCTA
rSOX4	CGCAGACTGCTCCATGATCTTGCG	GACGACCCTAGCTGGTGCAA
rSSH2	CGGTAGACAGTGTTGGCGTGTTACCG	CATGCTCCTTACCACACCAG

miR-129, miR-212 and miR-21 miRscript primers were purchased from commercial sources (miScript assays, Qiagen, Valencia, CA).