

A1

5'-	Antisense sequence (1-21 mature mi/siRNA)	miR-155 loop GTTTTGGCCACTGACTGAC	Sense sequence (Nucleotides 1-8 and 11-21)	-3'
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A2

ADAM17 coding sequence matching miA17-94

rat	(NM_020306)	CTTGAGAAGCTTGATTCTTTG
mouse	(NM_009615)	CTTGAGAAGCTTGATTCTTTG
human	(NM_003183)	CT <u>C</u> GAGAAGCTTGATTCTTTG

ADAM17 coding sequence matching miA17-450

rat	(NM_020306)	GCCACTTTGGAGGTTTGTAA
mouse	(NM_009615)	GCCACTTTGGAGGTTTGT <u>C</u> AA
human	(NM_003183)	GCCACTTTGGAGATTTGT <u>T</u> AA

ADAM17 coding sequence matching miA17-724

rat	(NM_020306)	GGAGAAGAGAGCACTACTACA
mouse	(NM_009615)	GGAGAAGAGAGCACC <u>C</u> ACTACA
human	(NM_003183)	GG <u>G</u> GAAGAGAG <u>T</u> AC <u>A</u> ACTACA

A3

Closest rat homologies to miA17-94

ADAM17	(NM_020306)	CTTGAGAAGCTTGATTCTTTG
S1pr3 3'UTR	(NM_001271143)	<u>GT</u> AGAGAAGCTTGATT <u>CGTGT</u>
TL0ADA33YG04	(FQ221658)	CTTGAGAAGCTTGAG <u>GCATGCT</u>
Gcfc2	(NM_001134554)	<u>A</u> TTGAGAAGCTTGAG <u>GAGTGG</u> A
ADAM15	(NM_020308)	<u>TG</u> AGAGAAGCT <u>ATACACTGGA</u>

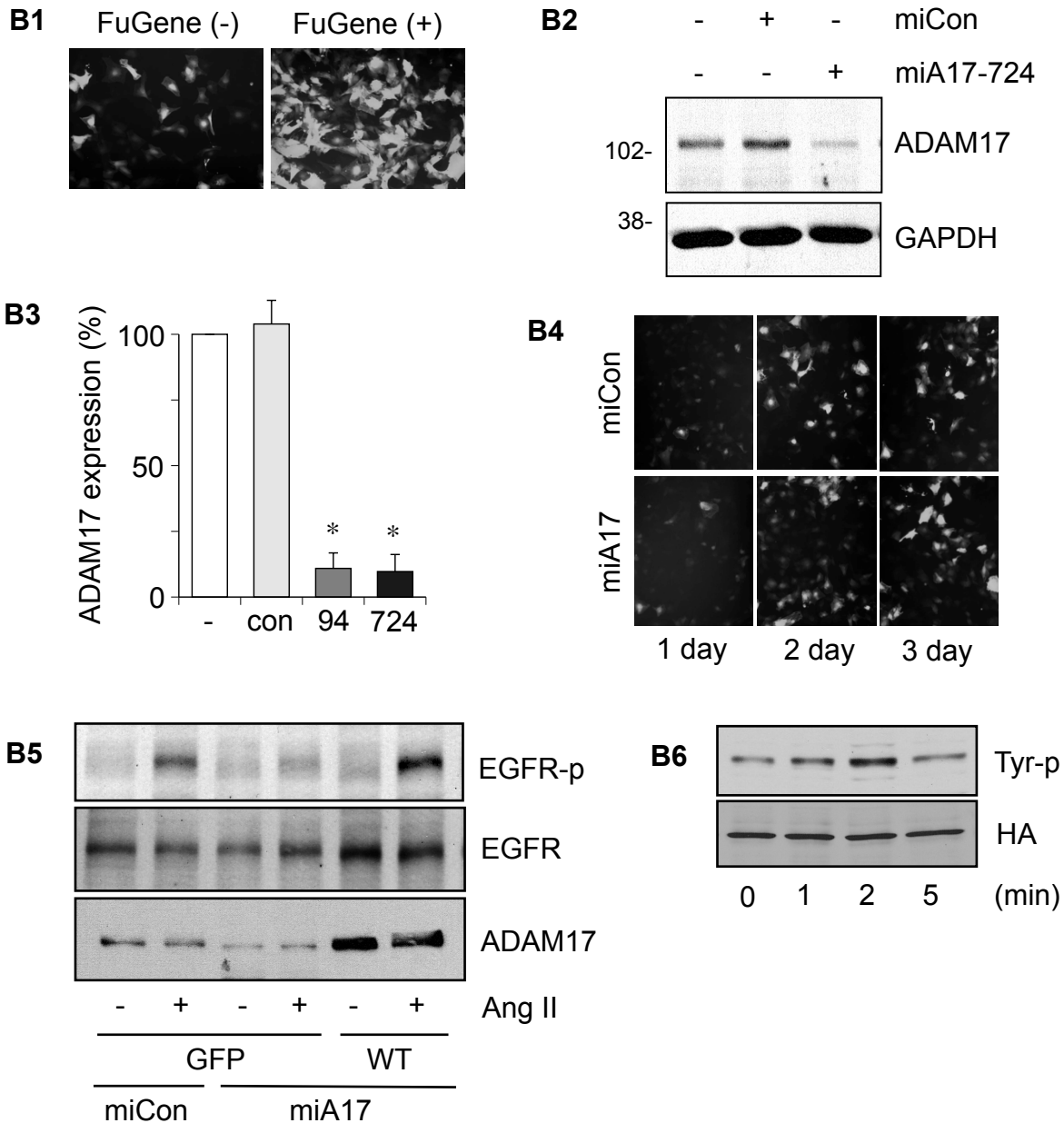
Closest rat homologies to miA17-450

ADAM17	(NM_020306)	GCCACTTTGGAGGTTTGTAA
TL0ACA47YG15	(FQ215635)	<u>CCAGGT</u> A <u>T</u> GGAGGTTTGT <u>CT</u>
Dnmt1 3'UTR	(NM_053354)	<u>AAGCTG</u> TTGGAGGTTTGT <u>CT</u>
ADAM4	(NM_020305)	<u>CCTGC</u> ACTGGAGG <u>CTGAAAG</u>

Closest rat homologies to miA17-724

ADAM17	(NM_020306)	GGAGAAGAGAGCACTACTACA
Usp29 3'UTR	(NM_001108465)	<u>TC</u> AGAAGAGAGCACTAG <u>GATCT</u>
ADAM4	(NM_020305)	G <u>CTTTT</u> CAGAGCACTA <u>ATGCT</u>

Supplemental Fig A. 1. Adenovirally encoded synthetic Pre-miRNA oligo structure. The ninth and tenth nucleotides of the sense target sequence are removed to create an internal loop. **2.** ADAM17 sequence homologies to rat ADAM17 mi/siRNAs. **3.** Blast results of closest rat homologies to rat ADAM17 mi/siRNAs.



Supplementary Figure B: 1. Enhancement of adenovirus infection by FuGene 6. VSMC were infected with adenovirus encoding GFP and miA17-450 at 50 MOI for 3 days in the presence or absence of 3% FuGene 6. GFP expression was analyzed by fluorescent microscopy. Representative results are shown from triplicated experiments. **2.** VSMC were infected with adenovirus expressing miCon or miA17-724 at 100 MOI for 3 days. Cell lysates were analyzed by immunoblotting with antibodies as indicated. Representative blots are shown from triplicated experiments. **3.** Densitometry analysis of the data from triplicated experiments (mean \pm SD, * $p < 0.05$ compared with miRNA control). **4.** VSMC were infected with 50 MOI adenovirus for the indicated time. GFP expression was analyzed by fluorescent microscopy. Representative results are shown from triplicated experiments. **5.** Rat VSMC were infected with adenovirus encoding miA17-450 or miCon (100 MOI) together with wild type mouse ADAM17 or control GFP (10 MOI) for 3 days and immunoblotting was performed with or without 100 nM Ang II stimulation. **6.** VSMC infected with adenovirus encoding HA-tagged wild-type ADAM17 were stimulated with 100 nM Ang II for indicated time. Cell lysates were immunoprecipitated with anti-HA antibody and immunoblotted with antibodies as indicated. Representative blots are shown from triplicated experiments.