

**Table S1 Primers used for the cloning of 3'UTR reporters**

<b>3'UTR</b>	<b>Forward Primer</b>	<b>Reverse Primer</b>
ITGA11	GAATGGAAGCTCAAGCTGGTT	TCTGTTTTGTCTTGGATCCTT
NID1	CCTCAGACAGACTTATACACC	CTGCTCATTATCATCCACCAA
ADAM12	CAACAGTGAAGACAGAAGTT	ACAACAAGCCTTCCTGCCAT
ADAMTS9	GATTCTATTATGACTGCCTT	GTCTTATTCATCCAAGTGATT
ITGA11 mutant	CTACTAATAGGCACGGAATTCGTAA	TTACGAATTCGGTGCCTATTAGTAG
NID1 mutant	ATGTTTTGTTTACGTAGGCTGAATT	AATTCAGCCTACGTAAACAAAACAT
ADAM12 mutant	GTGCTGTGCTACATTGAGCTGTCTACTT	AAGTAGACAGCTCAATGTAGCACAGCAC
ADAMTS9 mutant	CCATCATCAATATGACGTAAGAGTTGT	ACAACCTCITACGTCATATTGATGATGG

**Table S2. miRNAs differentially expressed in bleomycin-treated lungs**

<i>Name of miRNAs</i>	<i>FC(Bleo-D10/CTRL)</i>	<i>P-value Bleo-(D10/CTRL)</i>	<i>FC(Bleo-D28/CTRL)</i>	<i>P-value (Bleo-D28/CTRL)</i>
mmu-miR-872_st	0.15	3.00E-05	0.42	1.32E-01
mmu-miR-374_st	0.18	2.16E-02	0.32	1.00E-01
mmu-miR-451_st	0.19	3.05E-02	0.19	2.71E-02
mmu-miR-19a_st	0.23	4.53E-03	0.23	6.91E-02
mmu-miR-26b_st	0.25	2.65E-03	0.22	7.15E-02
mmu-miR-466h_st	0.28	1.24E-01	0.16	4.60E-02
mmu-miR-669c_st	0.33	8.60E-02	0.27	2.14E-03
mmu-miR-669d_st	0.35	3.83E-02	0.15	3.81E-03
mmu-miR-297a_st	0.37	3.20E-01	0.07	3.01E-02
mmu-miR-466g_st	0.38	1.72E-01	0.04	1.94E-03
mmu-let-7f_st	0.38	4.60E-02	0.54	5.66E-02
mmu-miR-466f-3p_st	0.40	2.37E-01	0.07	5.83E-03
mmu-miR-669e_st	0.41	1.79E-01	0.13	5.09E-03
mmu-miR-466j_st	0.42	1.86E-01	0.19	2.90E-02
mmu-miR-29c_st	0.43	5.78E-02	0.30	1.57E-02
mmu-let-7d-star_st	0.44	1.62E-01	0.21	9.96E-03
mmu-let-7g_st	0.44	9.38E-02	0.18	5.39E-03
mmu-miR-466f_st	0.45	2.62E-01	0.13	2.34E-02
mmu-miR-503-star_st	0.47	1.17E-01	0.39	4.76E-02
mmu-miR-346_st	0.48	1.79E-01	0.36	2.74E-02
mmu-miR-322_st	0.50	1.55E-01	0.37	3.17E-02
mmu-miR-30e-star_st	0.54	1.17E-02	0.45	4.91E-02
mmu-miR-1187_st	0.55	2.66E-01	0.13	5.96E-03
mmu-miR-340-5p_st	0.81	4.12E-01	0.43	1.49E-02
mmu-miR-200c-star_st	0.89	7.14E-01	0.33	2.04E-02
mmu-miR-135a-star_st	1.03	6.65E-01	2.98	1.27E-04
mmu-miR-184_st	1.03	8.87E-01	9.12	2.06E-02
mmu-miR-690_st	1.16	5.08E-01	2.05	2.92E-02
mmu-miR-342-5p_st	1.17	4.96E-01	2.22	3.62E-03

mmu-miR-130b_st	1.26	3.50E-01	2.86	8.23E-03
mmu-miR-127_st	1.27	1.18E-01	2.30	3.88E-02
mmu-miR-877_st	1.35	2.12E-01	2.28	1.92E-02
mmu-miR-139-5p_st	1.48	1.17E-01	2.12	2.64E-02
mmu-miR-379_st	1.52	4.69E-02	2.91	8.85E-03
mmu-miR-409-3p_st	1.70	1.85E-03	5.08	1.37E-02
mmu-miR-382_st	2.08	3.04E-02	2.71	2.85E-02
mmu-miR-146b_st	2.14	3.90E-02	4.27	4.81E-02
mmu-miR-134_st	2.18	1.24E-02	2.57	3.10E-02
mmu-miR-685_st	2.47	1.07E-01	4.92	5.27E-03
mmu-miR-139-3p_st	2.53	1.03E-01	3.37	4.51E-02
mmu-miR-21-_st	2.63	2.02E-02	2.35	1.51E-02
mmu-miR-34a_st	2.80	1.58E-03	3.14	9.33E-04
mmu-miR-706_st	2.97	8.08E-02	4.48	5.14E-02
mmu-miR-192_st	3.02	3.74E-01	0.64	2.02E-02
mmu-miR-146b-star_st	3.10	8.93E-02	3.64	2.51E-02
mmu-miR-487b_st	3.28	1.22E-02	3.32	2.19E-01
mmu-miR-298_st	3.58	2.11E-01	5.38	4.48E-03
mmu-miR-449a_st	4.14	2.75E-03	1.69	1.58E-01
mmu-miR-124_st	35.52	2.44E-04	33.92	3.39E-03

**Table S3. miR-29 targets up-regulated in miR-29 knockdown IMR-90 cells**

<i>Gene Symbol</i>	<i>mRna - Description</i>	<i>p-value</i>	<i>FC (miR-29 KD/CTRL)</i>
ABHD4	abhydrolase domain containing 4 (ABHD4), mRNA.	5.13E-03	1.14
ADAM12	ADAM metallopeptidase domain 12 (meltrin alpha) (ADAM12), transcript variant 1, mRNA.	2.25E-02	1.66
ADAM19	ADAM metallopeptidase domain 19 (meltrin beta) (ADAM19), transcript variant 2, mRNA.	1.28E-02	1.39
ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9 (ADAMTS9), mRNA.	1.03E-02	1.43
ANKRD57	ankyrin repeat domain 57 (ANKRD57), mRNA.	2.90E-03	1.12
ARNTL	aryl hydrocarbon receptor nuclear translocator-like (ARNTL), transcript variant 1, mRNA.	1.16E-02	1.19
ATG9A	ATG9 autophagy related 9 homolog A ( <i>S. cerevisiae</i> ) (ATG9A), transcript variant 1, mRNA.	1.58E-03	1.21
BAK1	BCL2-antagonist/killer 1 (BAK1), mRNA.	1.49E-02	1.40
BMF	Bcl2 modifying factor (BMF), transcript variant 1, mRNA.	3.79E-03	1.37
C17orf70	chromosome 17 open reading frame 70 (C17orf70), mRNA.	2.61E-02	1.10
CASP7	caspase 7, apoptosis-related cysteine peptidase (CASP7), transcript variant gamma, mRNA.	2.36E-02	1.36
CCDC28B	coiled-coil domain containing 28B (CCDC28B), mRNA.	2.19E-02	1.13
CLDN1	claudin 1 (CLDN1), mRNA.	1.30E-02	1.43
COL15A1	collagen, type XV, alpha 1 (COL15A1), mRNA.	4.76E-02	1.24
COL19A1	collagen, type XIX, alpha 1 (COL19A1), mRNA.	1.63E-02	1.13
COL1A1	collagen, type I, alpha 1 (COL1A1), mRNA.	6.74E-03	1.29
COL1A2	collagen, type I, alpha 2 (COL1A2), mRNA.	3.36E-02	1.15
COL3A1	collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant) (COL3A1), mRNA.	1.03E-02	1.56
COL4A1	collagen, type IV, alpha 1 (COL4A1), mRNA.	1.33E-02	1.53
COL4A2	collagen, type IV, alpha 2 (COL4A2), mRNA.	1.65E-02	1.14
COL4A5	collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), transcript variant 3, mRNA.	1.90E-02	1.48
COL5A1	collagen, type V, alpha 1 (COL5A1), mRNA.	1.05E-02	1.28
COL5A2	collagen, type V, alpha 2 (COL5A2), mRNA.	1.44E-02	1.51
COMMD2	COMM domain containing 2 (COMMD2), mRNA.	4.04E-02	1.26
CSDA	cold shock domain protein A (CSDA), mRNA.	2.81E-03	1.22

DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked (DDX3X), mRNA.	7.89E-03	1.14
DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha (DNMT3A), transcript variant 1, mRNA.	2.72E-02	1.28
DYNLT1	dynein, light chain, Tctex-type 1 (DYNLT1), mRNA.	2.81E-02	1.11
E2F7	E2F transcription factor 7 (E2F7), mRNA.	6.87E-03	1.83
EIF4E2	eukaryotic translation initiation factor 4E family member 2 (EIF4E2), mRNA.	2.68E-02	1.11
ELF2	E74-like factor 2 (ets domain transcription factor) (ELF2), transcript variant 1, mRNA.	4.27E-03	1.14
EMP1	epithelial membrane protein 1 (EMP1), mRNA.	9.13E-03	1.34
ETV4	ets variant gene 4 (E1A enhancer binding protein, E1AF) (ETV4), transcript variant 2, mRNA.	4.27E-02	1.14
FBN1	fibrillin 1 (FBN1), mRNA.	2.58E-02	1.24
FLJ14154	hypothetical protein FLJ14154 (FLJ14154), transcript variant 2, mRNA.	3.18E-02	1.14
FOXO3	forkhead box O3 (FOXO3), transcript variant 1, mRNA.	3.04E-02	1.15
FSTL1	follistatin-like 1 (FSTL1), mRNA.	2.93E-02	1.22
GLIS2	GLIS family zinc finger 2 (GLIS2), mRNA.	8.55E-04	1.19
GPR37	G protein-coupled receptor 37 (endothelin receptor type B-like) (GPR37), mRNA.	1.41E-02	1.32
H2AFY	H2A histone family, member Y (H2AFY), transcript variant 2, mRNA.	5.07E-03	1.23
HBP1	HMG-box transcription factor 1 (HBP1), mRNA.	4.95E-03	1.53
HIP1R	huntingtin interacting protein 1 related (HIP1R), mRNA.	8.29E-03	1.17
HMGCS1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble) (HMGCS1), transcript variant 1, mRNA.	8.45E-03	1.30
IL1RAPL1	interleukin 1 receptor accessory protein-like 1 (IL1RAPL1), mRNA.	1.70E-02	1.51
INSIG1	insulin induced gene 1 (INSIG1), transcript variant 2, mRNA.	1.90E-03	1.55
ITGA11	integrin, alpha 11 (ITGA11), mRNA.	1.03E-02	1.38
ITGA6	integrin, alpha 6 (ITGA6), transcript variant 2, mRNA.	2.56E-02	1.24
JARID1B	jumonji, AT rich interactive domain 1B (JARID1B), mRNA.	2.99E-02	1.36
JARID2	jumonji, AT rich interactive domain 2 (JARID2), mRNA.	3.68E-02	1.33
JMJD2B	jumonji domain containing 2B (JMJD2B), mRNA.	4.61E-02	1.10
KBTBD8	kelch repeat and BTB (POZ) domain containing 8 (KBTBD8), mRNA.	3.04E-03	1.11
KIRREL	kin of IRRE like (Drosophila) (KIRREL), mRNA.	3.36E-02	1.12

KLF4	Kruppel-like factor 4 (gut) (KLF4), mRNA.	9.59E-03	1.35
KLHDC3	kelch domain containing 3 (KLHDC3), mRNA.	2.56E-03	1.65
LAMC1	laminin, gamma 1 (formerly LAMB2) (LAMC1), mRNA.	3.98E-02	1.27
LEP	leptin (obesity homolog, mouse) (LEP), mRNA.	6.94E-03	1.16
LEPRE1	leucine proline-enriched proteoglycan (leprecan) 1 (LEPRE1), mRNA.	4.93E-03	1.31
LOXL2	lysyl oxidase-like 2 (LOXL2), mRNA.	5.02E-03	1.23
LSM11	LSM11, U7 small nuclear RNA associated (LSM11), mRNA.	3.83E-03	1.20
MAFB	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian) (MAFB), mRNA.	3.50E-02	1.20
MAZ	MYC-associated zinc finger protein (purine-binding transcription factor) (MAZ), transcript variant 2, mRNA.	4.39E-03	1.49
MEX3B	ring finger and KH domain containing 3 (RKHD3), mRNA.	1.11E-02	1.19
MGAT4B	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B (MGAT4B), transcript variant 2, mRNA.	4.64E-03	1.19
MMP2	matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase) (MMP2), mRNA.	9.78E-04	1.33
NFATC4	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4 (NFATC4), mRNA.	4.20E-02	1.18
NID1	nidogen 1 (NID1), mRNA.	1.20E-02	2.05
NKIRAS2	NFKB inhibitor interacting Ras-like 2 (NKIRAS2), transcript variant 1, mRNA.	2.55E-02	1.19
OSBPL10	oxysterol binding protein-like 10 (OSBPL10), mRNA.	4.15E-02	1.16
OSBPL1A	oxysterol binding protein-like 1A (OSBPL1A), transcript variant OSBPL1B, mRNA.	2.79E-02	1.18
PAG1	phosphoprotein associated with glycosphingolipid microdomains 1 (PAG1), mRNA.	1.12E-03	1.62
PALM	paralemmin (PALM), transcript variant 1, mRNA.	3.39E-02	1.14
PDGFRB	platelet-derived growth factor receptor, beta polypeptide (PDGFRB), mRNA.	2.24E-04	1.22
PITPNM2	phosphatidylinositol transfer protein, membrane-associated 2 (PITPNM2), mRNA.	3.79E-02	1.23
PPIC	peptidylprolyl isomerase C (cyclophilin C) (PPIC), mRNA.	1.86E-02	1.53
PTEN	phosphatase and tensin homolog (mutated in multiple advanced cancers 1) (PTEN), mRNA.	4.26E-02	1.20
PXDN	peroxidasin homolog (Drosophila) (PXDN), mRNA.	1.13E-03	1.35
RCC2	regulator of chromosome condensation 2 (RCC2), mRNA.	6.42E-03	1.57
RHOBTB1	Rho-related BTB domain containing 1 (RHOBTB1), transcript variant 1, mRNA.	2.81E-02	1.42
RIT1	Ras-like without CAAX 1 (RIT1), mRNA.	4.84E-02	1.29

SERPINH1	serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1) (SERPINH1), mRNA.	5.49E-03	1.44
SESTD1	SEC14 and spectrin domains 1 (SESTD1), mRNA.	2.39E-02	1.46
SETDB1	SET domain, bifurcated 1 (SETDB1), mRNA.	6.53E-03	1.11
SH3PXD2B	SH3 and PX domains 2B (SH3PXD2B), mRNA.	2.05E-02	1.11
SLC16A14	solute carrier family 16, member 14 (monocarboxylic acid transporter 14) (SLC16A14), mRNA.	3.18E-02	1.22
SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3 (SLC2A3), mRNA.	8.71E-04	1.24
SNRK	SNF related kinase (SNRK), mRNA.	2.58E-02	1.21
SPARC	secreted protein, acidic, cysteine-rich (osteonectin) (SPARC), mRNA.	8.56E-03	1.32
SPNS1	spinster homolog 1 (Drosophila) (SPNS1), mRNA.	3.56E-03	1.41
TAF11	TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 28kDa (TAF11), mRNA.	9.53E-03	1.29
TMEM183A	transmembrane protein 183A (TMEM183A), mRNA.	3.19E-03	1.24
TMEM183B	transmembrane protein 183B (TMEM183B), mRNA.	5.47E-03	1.20
TP53INP1	tumor protein p53 inducible nuclear protein 1 (TP53INP1), mRNA.	2.94E-02	1.16
TRAF4	TNF receptor-associated factor 4 (TRAF4), mRNA.	4.26E-04	1.21
TRIB2	tribbles homolog 2 (Drosophila) (TRIB2), mRNA.	1.08E-02	1.44
TRIM9	tripartite motif-containing 9 (TRIM9), transcript variant 2, mRNA.	4.37E-02	1.13
VASH1	vasohibin 1 (VASH1), mRNA.	1.88E-02	1.20
WDR40B	WD repeat domain 40B (WDR40B), mRNA.	1.97E-02	1.27
YPEL2	yippee-like 2 (Drosophila) (YPEL2), mRNA.	1.45E-02	1.32
ZBTB34	zinc finger and BTB domain containing 34 (ZBTB34), mRNA.	4.12E-02	1.17
ZFP36L1	zinc finger protein 36, C3H type-like 1 (ZFP36L1), mRNA.	4.75E-03	1.11
ZMIZ1	zinc finger, MIZ-type containing 1 (ZMIZ1), mRNA.	3.36E-02	1.21
ZNF641	zinc finger protein 641 (ZNF641), mRNA.	1.23E-02	1.12