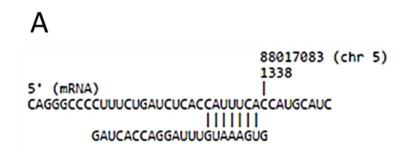
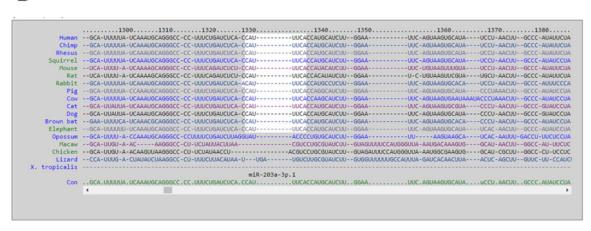
Identification of novel genetic regulations associated with airway epithelial homeostasis using next-generation sequencing data and bioinformatics approaches

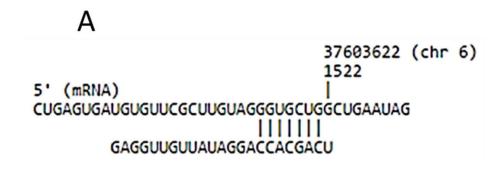
## SUPPLEMENTARY MATERIALS



В



Supplementary Figure 1: The position of 1331-1337 of *MEF2C* 3'UTR was the putative binding site for mir-203a. (A) The sequence alignment of mir-203a in the 3'UTR of *MEF2C* and (B) the sequence conservation comparison in different species.



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Supplementary Figure 2: The position of 1515-1521 of *MDGA1* 3'UTR is the putative binding site for mir-3065-3p. (A) The sequence alignment of mir-3065-3p in the 3'UTR of *MDGA1* and (B) the sequence conservation comparison in different species.

Supplementary Table 1: Summary of mir-203a targeting MEF2C

Prediction of mir-203a targeting sites on MEF2C										
miR	miRmap		+	+		+	+	+	+	
Targe	TargetScan		+		+	+	+	+		+
miR	miRDB		+			+	+	+		
	Binding sites (3'UTR)		1759 I 1765	1912 I 1917	2044 I 2050	2277 I 2283	2487 I 2494	2509 I 2515	3251 I 3256	5693 I 5699
	Human	+	+	+	+	+	+	+	+	+
	Chimp	+	+	+	+	+		+	+	+
	Rhesus	+	+	+	+	+		+	+	+
	Squirrel	+	+	+	+	+		+	+	
cies	Mouse	+	+	+		+			+	
eds 1	Rat	+	+			+		+		
ai no	Rabbit	+	+		+	+			+	
vatic	Pig	+	+	+	+	+		+	+	
nser	Cow	+	+	+	+	+		+	+	
oo e	Cat	+		+	+			+	+	
ienc	Dog	+	+	+	+			+	+	
3'UTR sequence conservation in species	Brown bat	+	+	+		+		+	+	
	Elephant	+				+		+	+	
	Opossum							+	+	
	Macaw			+					+	
	Chicken							+	+	
	Lizard									

<sup>&</sup>quot;+" means the position identified in the databases and identical in species.

## Supplementary Table 2: Summary of mir-3065-3p targeting MDGA1

Prediction of mir-3065-3p targeting sites on MDGA1									
	miRmap		+	+	+	+	+		
	TargetScan			+	+	+			
	miRDB	+		+	+	+			
В	Binding sites (3'UTR)		2817 I 2822	3133 I 3139	3194 I 3200	3265 I 3272	4111 I 4116		
	Human	+	+	+	+	+	+		
	Chimp		+				+		
	Rhesus		+				+		
SS	Squirrel						+		
3'UTR sequence conservation in species	Mouse	+							
in Sţ	Rat								
tion	Rabbit								
erva!	Pig						+		
conse	Cow						+		
ice c	Cat						+		
dneı	Dog						+		
R se	Brown bat								
'UT	Elephant						+		
$\alpha$	Opossum								
	Macaw								
	Chicken								
	Lizard								

<sup>&</sup>quot;+" means the position identified in the databases and identical in species.