Supplemental Table S5

List of antibodies used

Target	Company	Clone / ID	Source organism	Application	Dilution/ amount
Acetylated α-Tubulin	Sigma	T6793	Mouse	WB	1:1000
Acetylated α-Tubulin	Sigma	T7459	Mouse IgG2b	IF	1:1000
beta-actin	Abcam	ab8227	Rabbit	WB	1:1000
γ-Tubulin	Sigma	T5192	Rabbit	WB	1:400
CD68	Abcam	ab53444	Rat	IF	1:100
Chibby (Voronina et al. 2009)	In-House	1418P	Rabbit	IF	1:250
Chibby (Cyge et al. 2011)	In-House	8-2	Mouse IgG2a	IF	1:50
Dnali1	Santa Cruz	N-13	Goat	WB	1:300
FoxJ1	Sigma	HPA005714	Rabbit	WB	1:1000
FoxJ1	Sigma	HPA005714	Rabbit	IHC, IF	1:500
FoxJ1	eBioscience	2A5	Mouse	IF	1:300
Rfx2	Sigma	HPA048969	Rabbit	IHC, IF	1:300
Rfx3	Sigma	HPA035689	Rabbit	IHC, IF	1:1000
p63	Santa Cruz	H-137	Rabbit	IF	1:1000
Flag (M2)	Sigma-Aldrich	F3165	Mouse	IF	1:500
Hsc70	Santa Cruz	B-6	Mouse	WB	1:10000
IgG	Abcam	ab46540	Rabbit	ChIP control	2µg
p73	Abcam	ER15	Mouse IgG1	IF	1:100
p73	Neomarkers	Ab4 cocktail	Mouse	IHC	1:200
TAp73, isoform-specific	Abcam	ab14430	Rabbit	ChIP Saos2	2µg
p73	Abcam	EP436Y	Rabbit	ChIP trachea	2µg
p73	Abcam	EP436Y	Rabbit	WB, IF	1:300
ZO-1 (N-Term)	Invitrogen	40-2300	Rabbit	IF	1:200
DyLight 549 Goat anti-Mouse IgG2b	Jackson Immunoresearch	115-505-207	Goat	IF (secondary)	1:250
DyLight 488 or 549 Goat anti-Mouse IgG2a	Jackson Immunoresearch	115-485-206	Goat	IF (secondary)	1:250
Alexa Fluor® 488 Goat Anti-Mouse IgG (H+L)	Invitrogen	A-11029	Goat	IF (secondary)	1:500
Alexa Fluor® 594 Goat Anti-Rabbit IgG (H+L)	Invitrogen	A-11012	Goat	IF (secondary)	1:500
Alexa Fluor® 594 Donkey Anti-Rat IgG (H+L)	Invitrogen	A-20209	Donkey	IF (secondary)	1:500
HRP-coupled AffiniPure F(ab')2 fragment, anti mouse IgG (H+L)	Jackson, Immunoresearch	711-036-152	Donkey	WB (secondary)	1:10000

Target	Company	Clone / ID	Source organism	Application	Dilution
HRP-coupled AffiniPure F(ab')2 fragment, anti rabbit IgG (H+L)	Jackson, Immunoresearch	715-036-150	Donkey	WB (secondary)	1:10000
DyLight 488 Goat anti-Mouse IgG2a	Jackson Immunoresearch	115-485-206	Goat	IF (secondary)	1:250
DyLight 549 Goat anti-Mouse IgG2a	Jackson Immunoresearch	115-505-206	Goat	IF (secondary)	1:250
DyLight 549 Goat anti-Mouse IgG2b	Jackson Immunoresearch	115-505-207	Goat	IF (secondary)	1:250
Alexa Fluor® 555 Goat anti-Mouse IgG2b	Invitrogen	A21147	Goat	IF (secondary)	1:250
DyLight 488 Goat anti-Mouse IgG2b	Jackson Immunoresearch	115-485-207	Goat	IF (secondary)	1:250
Alexa Fluor® 488 Goat anti-Mouse IgG2b	Invitrogen	A21141	Goat	IF (secondary)	1:250
DyLight 549 Goat anti-Mouse IgG1	Jackson Immunoresearch	115-505-205	Goat	IF (secondary)	1:250
Alexa Fluor® 488 Goat anti-Mouse IgG1	Invitrogen	A21121	Goat	IF (secondary)	1:250
DyLight 649 Goat anti-Mouse IgG2a	Jackson Immunoresearch	115-495-207	Goat	IF (secondary)	1:250
DyLight 649 Goat anti-Mouse IgG2b	Jackson Immunoresearch	115-495-206	Goat	IF (secondary)	1:250
DyLight 649 Goat anti-Mouse IgG1	Jackson Immunoresearch	115-495-205	Goat	IF (secondary)	1:250

REFERENCES

Cyge B, Fischer V, Takemaru K, Li FQ. 2011. Generation and characterization of monoclonal antibodies against human Chibby protein. *Hybridoma (Larchmt)* **30**: 163-168.

Voronina VA, Takemaru K, Treuting P, Love D, Grubb BR, Hajjar AM, Adams A, Li FQ, Moon RT. 2009. Inactivation of Chibby affects function of motile airway cilia. *J Cell Biol* **185**: 225-233.

List of primers, qRT-PCR and targeted ChIP assays

Gene	Forward primer	Reverse primer
qRT-PCR		
human_36B4	GATTGGCTACCCAACTGTTG	CAGGGGCAGCAGCCACAAA
human_TAp73	CACCACGTTTGAGCACCTCTG	GATGTAGTCATGCCCTCCAGG
mouse_36B4 degenerate	TKGCCAGTGTSTGTCTGCAG	CCRCAAAKGCAGATGGATCAG
mouse_DnaLi1	TTTGGCATGAGGAAGGCACT	CTGGTTGGTCCGTTTCAGGAC
mouse_FoxJ1	CCATGCAGACCCCACCTGGCA	GGGCAAAGGCAGGGTGGATGT
mouse_Mmp12	GGGCTGCTCCCATGAATGAC	CCAGAGTTGAGTTGTCCAGTTG
mouse_Muc5ac	ACACCGCTCTGATGTTCCTC	GCCTGGTATGTCCTGGGTTG
mouse_Muc5b	ATGGGCAGCAGAAACTGGAG	TGTAAGGCGCTCATGCTAGG
mouse_TAp73	GAGCACCTGTGGAGTTCTCTAGAG	GGTATTGGAAGGGATGACAGGCG
mouse_Rsph4a	CCATATCGTCACGCTCCGTT	TCCTGGGGAGAAACGTCTGA
mouse_Rfx2	GACGGCACAAGACACTCTCTG	AGAGTCTCAATCGCCATTTCAAG
mouse_Dnahc3	TCCCTCGATTGTTTCCTCACA	ACCACCTCCTTGTACTCGTG
mouse_Dnahc5	CTGACGGACGCTGGGGACAC	CACTGGGGTGGTCGCCGAAG
mouse_ Dnahc11	ACCAGGACGTATGGTTGTTCT	CTTCCCCCGAGATTCCAAGAG
mouse_Hydin	TGGAGACACAGGTCATTGGC	GCCATGCGAACCCGAAAT
mouse_Spata18	ACACTCCAGCCGCGTTC	TGTGCCTGCACTTTAGCAAC
mouse_Mcidas	AAGAGTTGGTTTGCGTGCTT	ACCCCAGGACTGGAGTTTCT
Targeted ChIP		
mouse_FoxJ1	CACACATCAGAGCAGGATGG	GGACTCTTTCCAGCAATACCC
mouse_Rfx2	GGCCTCCTGGATCTTCCTAC	CAAATCCTCGGACCACTCTC
mouse_Rfx3	ACAGCCCTCAGAATGACTGG	TCTCACCCACTGAGCATCTG
mouse_Myb	TTGCTCTGCATGTTTGAACC	GTTGGGAGTTTGCCAGATG
mouse_Hydin	CTTCCTAAGCAGTGCGTGTG	CCCAAGAATGTGGGACAAAG
mouse_Dnahc3	ACCCAGTGGCAAGTAACCAG	TCCTACAAAGGAGCCAGCAG
mouse_Dnahc11	AGCCTCACACATCCCACTTC	TATGCCTGTCCTTGCATGTG
mouse_Tekt3	TGTCTATGAAGCCGTCAAGC	ACTGCATTACCTCGCTCCAC
mouse_Spata18	CAGATGGTGAGGCTGTCTTG	CAAGTGTGTCTGTGGCATCC
mouse_miR34bc	GACACCAGGCAGTGTTAGGG	TCTGTTTCCTCCCTCGAATG
human_FOXJ1	CAGGGCACACTTAGCCTTTG	CAGGAGACAAAGGGAGGAGG
human_RFX2	CGATCGCTGTGATGGGAGAG	CGCCCATGTCATCTTTGTCG
human_RFX3	ATTCAGATGGGCGTCACAGG	TTCTGTGAGTGGACAGACCG
human_MYB	AACCAGGTCAGCGAAATGAG	ACCCGGTGTGGTTACAAGAG

Gene	Forward primer	Reverse primer
human_miR34bc	AATCATGGGTCTCCCTGGTC	TTAGGGTTGCTGTTGATTTGG
human_HYDIN	TCAAGGACAAGAATTCACGGC	GATCTCTTGTTGCACCAGGG
human_DNAHC3	AGTCAGACCCTGCTGCTTTG	GCACTCTGAAGCATGAATGG
human_DNAHC11	GCCTTGAATAAAGAGATTGCTTGG	AAACAGAGGGCACCTTATGC
human_TEKT3	GCACACCCTGCCTTAGATCAG	TGTATGTGAGCCCTTCAAGC
human_SPATA18	GTGTTTAGAAGTTGCAGCATGTTG	GAGAGAATATCCTATGCCACACAG
human_MYOGLOBIN (Control)	CTCATGATGCCCCTTCTTCT	GAAGGCGTCTGAGGACTTAAA

LUC Reporter sequences

Construct Name	**DNA sequence of inserts (cognate regions, binding sites in red)**	**Vector** Promega	**5' RS**	**3' RS**
Btg4/miR-34bc WT p73 binding site	GAAAGGTGCCTTCCTTGTACTGTCTAAAACAAATGCAATCCTCTGTGT GGGCATTTAAAACACCACAAGCATTCTTACTTAGATTAAATCATGGGT CTCCCTGGTCTCCAG**GCATGCCTAGACATG**AACCATAAAGGGAATGA GATCCTTGGAGTTTCTCTAGTAACTGCAGGCCAAATCAACAGCAACCC TAAGAACAAGCATTC	pGL4.23	NheI	EcoRV
Btg4/miR-34bc mutant p73 binding site	GAAAGGTGCCTTCCTTGTACTGTCTAAAACAAATGCAATCCTCTGTGT GGGCATTTAAAACACCACAAGCATTCTTACTTAGATTAAATCATGGGT CTCCCTGGTCTCCAGAACCATAAAGGGAATGAGATCCTTGGAGTTTCT CTAGTAACTGCAGGCCAAATCAACAGCAACCCTAAGAACAAGCATTC	pGL4.23	NheI	EcoRV
FoxJ1 WT p73 binding site	GCCAGGTTGTGTGGCAAGTGGGGGCCCTGGAGCTGGGTCCCTCCAG GAGAGGACCAAGCGAGGGAGGTGCTGGAGACCAGCCCAGGCCGGG GATGGCTGACTGGGGCAGG**CGGGCCCGGGCAGG**CCCTCGCAGTAG GGGACAGCAGGGGCCGAGCCCAGGGCACACTTAGCCTTTGAGATTC CCTGGGTCTGGGGACTGAGGCC	pGL4.23	NheI	EcoRV
FoxJ1 mutant p73 binding site	GCCAGGTTGTGTGGCAAGTGGGGGCCCTGGAGCTGGGTCCCTCCAG GAGAGGACCAAGCGAGGGAGGTGCTGGAGACCAGCCCAGGCCGGG GATGGCTGACTGGGGCAGGCCCTCGCAGTAGGGGACAGCAGGGGCC GAGCCCAGGGCACACTTAGCCTTTGAGATTCCCTGGGTCTGGGGACT GAGGCC	pGL4.23	NheI	EcoRV
Myb WT p73 binding site	GACATGGGTTCTTGTTCCTTTTCTTATCCTTAACCTTAAGTTTTCAACTT AAACCTTCACTGGTTGGAAGGTGGCCAAATGTGTAACTTGTCCCTGGT CTAATAGTAACA**GCAGGTTCAGACATG**CAGGGGAATAGGAAGGTGC CAGGTCCTTGGCCGTGTCTGTGGATACCCATAACAGCAGAACCAGTTT ACAATACTAGAGCAACAGAATGCAGCAAACAATCTTGTTGTGCAA	pGL4.23	NheI	EcoRV
Myb mutant p73 binding site	GACATGGGTTCTTGTTCCTTTTCTTATCCTTAACCTTAAGTTTTCAACTT AAACCTTCACTGGTTGGAAGGTGGCCAAATGTGTAACTTGTCCCTGGT CTAATAGTAACACAGGGGAATAGGAAGGTGCCAGGTCCTTGGCCGT GTCTGTGGATACCCATAACAGCAGAACCAGTTTACAATACTAGAGCA ACAGAATGCAGCAAACAATCTTGTTGTGCAA	pGL4.23	NheI	EcoRV
Rfx2 WT p73 binding site	TAGTTACCTTCATTCTGATTGGCTGATGAGCCTCGGTGTTTGGGAGGC ACGTGGCCTCCTCCGGCCATCAGCTCCTCCTCTCCTGGTACTCGCTGG CCTCCAGATGGTACCAGAGTTCATCTGCCCTAAGAAAGCAATTAATTT CCTCCCTCTGAA**CAAGAAGGAACAAGC**CCGGAGTGCTCTCAGGAGT ACCAGTTGCTTCAAAGCCCAGATTCTGTCCTGGTAGCTTGTCTTAACA CTCCCAGTGTCATTAGGCTGCCCAGAAAAGTCTTGTCCGTTTCCTTCTC CCGGCTCCCCTCTGAGGGCCAGGTCCTCGGAGTAAGTGATGCGTGTT TTAAGATTCTGTCCTCACTGTTCAGGCTTGTGTGGCCTGGCCCCACGC ACAGGGAGGACACCTCCAAGCCATCTCCTTGCCGAAAAGTGGATTCT CGAACCCTCCTTGATGGTGGAACCATGTCCTTTCTGGCACCAGGATTA CTCCCTGT	pGL4.23	NheI	HindIII

Rfx2 mutant p73 binding site	TAGTTACCTTCATTCTGATTGGCTGATGAGCCTCGGTGTTTGGGAGGT GGCCTCCTCCGGCCATCAGCTCCTCCTCTCCTGGTACTCGCTGGCCTCC AGATGGTACCAGAGTTCATCTGCCCTAAGAAAGCAATTAATTTCCTCC CTCCGGAGTGCTCTCAGGAGTACCAGTTGCTTCAAAGCCCAGATTCTG TCCTGGTAGCTTGTCTTAACACTCCCAGTGTCATTAGGCTGCCCAGAA AAGTCTTGTCCGTTTCCTTCTCCCGGCTCCCCTCTGAGGGCCAGGTCCT CGGAGTAAGTGATGCGTGTTTTAAGATTCTGTCCTCACTGTTCAGGCT TGTGTGGCCTGGCCCCACGCACAGGGAGGACACCTCCGAAAAGTGG ATTCTCGAACCCTCCTTGATGGTGGAACTCCTTTCTGGCACCAGGATT ACTCCCTGT	pGL4.23	NheI	HindIII
Rfx3 WT p73 binding site	TAAACAACATAACCTTCCAAAAACTCAGATTAAGAAAATAAAAAATCA GATAATAGCATAGTTGCCAGTATTGCGTCTGGTTGCTATGGAATAAA GGGCAGTCCGTTCATATATTCATTCTGTTCATTCACTGCTACTTAAGAG CGCTGCTACACTTTTAAAGCCCAGCTGGG**CAAGTCTCAGCTTGT**ACCA CCTATATCAGCTGCCAGTATTTTACTTTTGTTCCACAAAAGAGTGACCT ACAAGAACAAAGATTTCCATTTTTAAAATTCATAATTAAATGAATGTTT ACAAAAATTCTTAAAACAATTAAAAGCACCTTTACCCTCATCAAA	pGL4.23	KpnI	XhoI
Rfx3 mutant p73 binding site	TAAACAACATAACCTTCCAAAAACTCAGATTAAGAAAATAAAAAATCA GATAATAGCATAGTTGCCAGTATTGCGTCTGGTTGCTATGGAATAAA GGGCAGTCCGTTCATATATTCATTCTGTTCATTCACTGCTACTTAAGAG CGCTGCTACACTTTTAAAGCTGGGACCACCTATATCAGCTGCCAGTAT TTTACTTTTGTTCCACAAAAGAGTGACCTAACAAAGATTTCCATTTTTA AAATTCATAATTAAATGAATGTTTACAAAAATTCTTAAAACAATTAAA AGCACCTTTACCCTCATCAAA	pGL4.23	KpnI	XhoI
Spata18 WT p73 binding site	TCTGGGTGAAAAACCCCCGGGGTTCGCCCTCCCATAGGTTCCAGCAC AGCCCTTGTCGGGGATTTCTTAGGGCTGGAGTTGGTGGCCACTTTGC AAAGCCTCCGCGGTTGCGATTCCTAACCAGGATCTCAGCTTTCGACCG GGATCGCTGGGGAAGGAAGGA**CATGTGTGTACATGC**CCTTGTCTCA GAGCTTCGGGAGGCGGCGCGCAGGCGGCCTGCGGAGCGCAGCACTA GGCTGCGGAGACTGGAGAGTGCTTCCAATCAGTGGTAACTAAGGAC GCCGGCGACCTAGCAATAGGGAAGCCCTGCTGTCCGCGGCTGGTCTG GTCATGCCTGCCACTCTTTCCCATCCCCCTTGCCAGCGCAATCCACACC GCCTGCTTCCCCAATCCCGAATTATTTTTTACTA	pGL4.23	KpnI	XhoI
Spata18 mutant p73 binding site	TCTGGGTGAAAAACCCCCGGGGTTCGCCCTCCCATAGGTTCCAGCACT TGTCGGGGATTTCTTAGGGCTGGAGTTGGTGGCCACTTTGCAAAGCC TCCGCGGTTGCGATTCCTAACCAGGATCTCAGCTTTCGACCGGGATCG CTGGGGAAGGACTTGTCTCAGAGCTTCGGGAGGCGGCGCGCAGGCG GCCTGCGGAGCGCAGCACTAGGCTGCGGAGACTGGAGAGTGCTTCC AATCAGTGGTAACTAAGGACGCCGGCGACCTAGCAATAGGGAAGCC CTGCTGTCCGCGGCTGGTCTGGTCTGCTTTCCCATCCCCCTTGCCAGC GCAATCCACACCGCCTGCTTCCCCAATCCCGAATTATTTTTTACTA	pGL4.23	KpnI	XhoI

p73 WT E2F binding site	TCGCGGTCGGGTCTGGCCCGCGGGAGGGGCCCTGGCGCCGGACCTG CTTCGGCCCTGCGTGGGCGGCCTCGCCGGGCTCTGCAGGAGCGACG C**GCGCCAAAA**GGCG**GCGGGAAGG**AGGCGGGGCAGAGCGCGCCCG GGACCCCGACTTGGACGCGGCCAGCTGGAGAGGCGGAGCGCCGGG AGGAGACCTTGGCCCCGCCGCGACTCGGTGGCCCGCGCTGC**CTTCCC GCG**CGCCGGGCTAAAAAGGCGCTAACGCCCGCGGCCGCCTACTCCCC GCGGCGCCTCCCCTCCCCGCGCCCATATAACCCGCCTAGGGGCCGGG CAGCCCGCCCTGCCTCCCCGCCCGCGCACCCGCCCGGAGGCTC	pGL4.23	NheI	EcoRV
p73 mutant E2F binding site	TCGCGGTCGGGTCTGGCCCGCGGGAGGGGCCCTGGCGCCGGACCTG CTTCGGCCCTGCGTGGGCGGCCTCGCCGGGCTCTGCAGGAGCGACG CGGCGAGGCGGGGCAGAGCGCGCCCGGGACCCCGACTTGGACGCG GCCAGCTGGAGAGGCGGAGCGCCGGGAGGAGACCTTGGCCCCGCC GCGACTCGGTGGCCCGCGCTGCCGCCGGGCTAAAAAGGCGCTAACG CCCGCGGCCGCCTACTCCCCGCGGCGCCTCCCCTCCCCGCGCCCATAT AACCCGCCTAGGGGCCGGGCAGCCCGCCCTGCCTCCCCGCCCGCGCA CCCGCCCGGAGGCTC	pGL4.23	NheI	EcoRV

RS= restriction site