

Supplemental Table S1

Supplemental Table S1. Genes that were increased or decreased by CFTR loss in airway smooth muscle.

This table includes all genes with a log2 fold change equal to, greater than, or less than 1 (Q value < 0.05)

Ensembl Gene ID	Gene	Locus	Log2 change	Q value
ENSSSCG00000021003	Metazoa_SRP	chr1:244532179-244532474	4.70	0.0004695
ENSSSCG00000019654	U6	chr1:4256579-4256679	4.00	0.0075683
ENSSSCG00000026197	-	chr18:27744020-27759327	3.74	0.0004695
ENSSSCG00000004803	ACTC1	chr1:152412333-152417610	3.54	0.0004695
ENSSSCG00000016621	KCND2	chr18:28125334-28126450	3.41	0.0004695
ENSSSCG00000008875	RXFP1	chr8:49914549-50005946	3.29	0.0004695
ENSSSCG00000004315	GABRR1	chr1:64000843-64018306	3.24	0.0008767
ENSSSCG00000015595	ATF3	chr9:143690555-143703872	3.17	0.0004695
ENSSSCG00000026701	PHOSPHO1	chr12:25384750-25385629	3.04	0.0004695
ENSSSCG00000011815	OSTN	chr13:137926852-137969822	3.01	0.0004695
ENSSSCG00000008150	TMEM182	chr3:53861566-53918903	2.89	0.0004695
ENSSSCG00000003662	NT5C1A	chr6:88568949-88585198	2.79	0.0004695
ENSSSCG00000001729	-	chr7:49080443-49131369	2.65	0.0042834
ENSSSCG00000022569	GRIA1	chr16:75191951-75275676	2.49	0.0004695
ENSSSCG00000010624	DUSP5	chr14:131791152-131804261	2.48	0.0004695
ENSSSCG00000003156	HRC	chr6:49986779-49990919	2.46	0.0004695
ENSSSCG00000027636	-	chr16:75380849-75390067	2.33	0.0004695
ENSSSCG00000016896	HSPB3	chr16:35788146-35788802	2.31	0.0004695
ENSSSCG00000010966	CCL19	chr10:36249786-36252381	2.29	0.0004695
ENSSSCG00000025040	NRG2	chr2:147648533-147653247	2.25	0.0193699
ENSSSCG00000024366	-	chr12:50940998-50941928	2.23	0.0056252
ENSSSCG00000017019	-	chr16:61223090-61223318	2.22	0.0004695
ENSSSCG00000017904	ENO3	chr12:54023316-54028701	2.20	0.0004695
ENSSSCG00000003148	-	chr6:49734282-49740069	2.17	0.0004695
ENSSSCG00000028559	-	chr14:4379298-4389659	2.17	0.0004695
ENSSSCG00000029969	-	chr9:91786361-91951765	2.10	0.0004695
ENSSSCG00000008734	-	chr8:7721845-7722430	2.09	0.0053436
ENSSSCG00000006351	PCP4L1	chr4:97045281-97046389	2.07	0.0277069
ENSSSCG00000025650	-	chr12:51165587-51166517	2.06	0.0028732
ENSSSCG00000003527	EPHB2	chr6:74751029-74880164	2.02	0.0004695
ENSSSCG00000006216	TRIM55	chr4:74654818-74698666	2.01	0.0004695
ENSSSCG00000006546	TDRD10	chr4:104057449-104104633	2.00	0.0004695
ENSSSCG00000006940	CYR61	chr4:142924365-142927632	1.98	0.0004695
ENSSSCG00000011224	GADL1	chr13:19068640-19069575	1.95	0.0004695
ENSSSCG00000014347	PROB1	chr2:147112696-147115756	1.93	0.0004695
ENSSSCG00000015355	-	chr9:92324976-92484202	1.91	0.0004695
ENSSSCG00000018052	NT5M	chr12:63063871-63079033	1.91	0.0004695
ENSSSCG00000017527	SKAP1	chr12:24146795-24199133	1.91	0.0004695
ENSSSCG00000014336	EGR1	chr2:146156064-146160020	1.90	0.0004695
ENSSSCG00000013022	PYGM	chr2:6542312-6553842	1.88	0.0004695

ENSSSCG00000028421	-	chr17:31192655-31196968	1.85	0.0382974
ENSSSCG00000006472	CRABP2	chr4:101959960-101966042	1.84	0.0004695
ENSSSCG00000017717	UNC45B	chr12:41508323-41542495	1.84	0.0004695
ENSSSCG00000014448	-	chr2:158403662-158410068	1.81	0.0004695
ENSSSCG00000017540	HOXB5	chr12:24875050-24877917	1.80	0.0004695
ENSSSCG00000016668	PDE1C	chr18:45285274-45567277	1.80	0.0004695
ENSSSCG00000021082	-	chr2:147550518-147554780	1.80	0.0008767
ENSSSCG00000017823	-	chr12:49929162-49930500	1.79	0.0004695
ENSSSCG00000016669	-	chr18:45285274-45567277	1.79	0.0004695
ENSSSCG00000005979	ANXA13	chr4:16450336-16485285	1.77	0.0004695
ENSSSCG00000010923	LGR6	chr10:28757057-28850254	1.77	0.0004695
ENSSSCG00000000148	-	chr5:9275334-9276287	1.76	0.0004695
ENSSSCG00000021649	-	chr1:11005327-11054173	1.75	0.0004695
ENSSSCG00000013023	RASGRP2	chr2:6557413-6573068	1.75	0.0004695
ENSSSCG00000021503	BCHE	chr13:113411282-113471750	1.75	0.0004695
ENSSSCG00000026065	-	chr12:50933614-50934550	1.74	0.0008767
ENSSSCG00000030998	-	chr5:32490648-32517056	1.74	0.0004695
ENSSSCG00000025360	-	chr12:50810938-50811868	1.70	0.0025637
ENSSSCG00000008873	FAM198B	chr8:49264226-49325615	1.69	0.0004695
ENSSSCG00000017018	TENM2	chr16:60190378-60526928	1.69	0.0004695
ENSSSCG00000008133	-	chr3:49326028-49340034	1.68	0.0004695
ENSSSCG00000015475	MYOG	chr9:125243802-125245882	1.68	0.0008767
ENSSSCG00000003758	CTBS	chr6:119602579-119617174	1.68	0.0004695
ENSSSCG00000024862	FGF11	chr12:55005480-55008990	1.66	0.0022458
ENSSSCG00000016799	CDH12	chr16:10811702-10941626	1.66	0.0004695
ENSSSCG00000005393	-	chr1:271473333-271523248	1.66	0.0004695
ENSSSCG00000021873	CRABP1	chr7:53156331-53163125	1.65	0.0004695
ENSSSCG00000026129	LPNH3	chr8:64657892-64699864	1.64	0.0004695
ENSSSCG00000009527	FGF14	chr11:77549749-77840067	1.64	0.0004695
ENSSSCG00000003045	ATP1A3	chr6:45929170-45946082	1.63	0.0004695
ENSSSCG00000000194	TUBA1C	chr5:15667322-15676220	1.63	0.0004695
ENSSSCG00000002383	FOS	chr7:104293656-104297121	1.60	0.0004695
ENSSSCG00000003546	-	chr6:75996930-75997332	1.60	0.0004695
ENSSSCG00000014437	PPARGC1B	chr2:157708575-157732501	1.58	0.0004695
ENSSSCG00000006035	ANGPT1	chr4:32646873-32751649	1.57	0.0004695
ENSSSCG00000004218	RSPO3	chr1:39635368-39787134	1.57	0.0004695
ENSSSCG00000000672	CLSTN3	chr5:65899678-65927193	1.56	0.0004695
ENSSSCG00000000468	WIF1	chr5:32716591-32717533	1.56	0.0004695
ENSSSCG00000009580	S1PR3	chr14:883129-894214	1.56	0.0004695
ENSSSCG00000014860	MAP6	chr9:10993369-11099236	1.55	0.0004695
ENSSSCG00000004887	-	chr1:173767251-173767479	1.55	0.0012461
ENSSSCG00000016664	NPSR1	chr18:42772919-42889244	1.55	0.0004695
ENSSSCG00000007949	SRL	chr3:39243121-39254214	1.55	0.0004695
ENSSSCG00000010073	CHCHD10	chr14:53363489-53366597	1.55	0.0004695
ENSSSCG00000005400	GRIN3A	chr1:271878064-272030735	1.55	0.0008767
ENSSSCG00000028076	ZBTB7C	chr1:107090823-107105563	1.55	0.0004695
ENSSSCG00000006474	-	chr4:101984684-101993269	1.54	0.0004695

ENSSSCG00000010303	SYNPO2L	chr14:82584547-82593126	1.54	0.0004695
ENSSSCG00000007504	RNPC1	chr17:64947370-64962212	1.53	0.0004695
ENSSSCG00000016928	RAB3C	chr16:40179069-40489143	1.53	0.0004695
ENSSSCG00000003143	MAMSTR	chr6:49799584-49804564	1.52	0.0004695
ENSSSCG00000003975	KCNQ4	chr6:157395568-157449604	1.51	0.0004695
ENSSSCG00000004452	PRSS35	chr1:92967486-92968731	1.51	0.0004695
ENSSSCG00000009948	WSCD2	chr14:44964239-45118925	1.49	0.0019286
ENSSSCG00000017254	MKK6	chr12:11139491-11264120	1.48	0.0004695
ENSSSCG00000009537	FAM155A	chr11:82190416-82226221	1.47	0.0004695
ENSSSCG00000017885	SMTNL2	chr12:52581689-52601851	1.46	0.0004695
ENSSSCG00000030325	C1QTNF6	chr5:8196796-8203786	1.46	0.0004695
ENSSSCG00000015997	PRKRA	chr15:93668008-93690408	1.45	0.0004695
ENSSSCG00000014443	-	chr2:158143673-158174737	1.44	0.0004695
ENSSSCG00000003594	H-FABP	chr6:81714145-81715640	1.43	0.0015957
ENSSSCG00000021576	CD83	chr7:10634534-10817827	1.42	0.0381507
ENSSSCG00000000873	ANO4	chr5:87094796-87321631	1.41	0.0004695
ENSSSCG00000006985	MTMR7	chr17:5450597-5526272	1.41	0.0004695
ENSSSCG00000005257	TRPM3	chr1:250301454-250587110	1.41	0.0004695
ENSSSCG00000022280	DACT3	chr6:47861775-47874977	1.41	0.0004695
ENSSSCG00000025393	SUSD2	chr14:53116079-53125864	1.41	0.0004695
ENSSSCG00000026155	FSCN2	chr12:1143384-1149170	1.40	0.0004695
ENSSSCG00000015445	NRCAM	chr9:118730304-118785977	1.40	0.0004695
ENSSSCG00000020988	ZNF114	chr6:49355195-49362519	1.40	0.0004695
ENSSSCG00000009757	BRI3BP	chr14:29888166-29904643	1.39	0.0071115
ENSSSCG00000010085	SDF2L1	chr14:53700110-53702130	1.39	0.0004695
ENSSSCG00000005385	NOR-1	chr1:269817144-269852707	1.39	0.0004695
ENSSSCG00000017951	ATP1B2	chr12:55243289-55248008	1.39	0.0004695
ENSSSCG00000011885	FBXO40	chr13:148511699-148517485	1.39	0.0004695
ENSSSCG00000006149	RALYL	chr4:56868077-57058815	1.39	0.0004695
ENSSSCG00000015961	CDCA7	chr15:88746847-88761828	1.38	0.0004695
ENSSSCG00000010359	LDB3	chr14:94915442-94974092	1.38	0.0004695
ENSSSCG00000023490	-	chr12:51068320-51069250	1.37	0.0004695
ENSSSCG00000009477	EDNRB	chr11:54691945-54718001	1.37	0.0004695
ENSSSCG00000015359	-	chr9:94582714-94585883	1.37	0.0004695
ENSSSCG00000008723	HTRA3	chr8:4456175-4482055	1.37	0.0004695
ENSSSCG00000011110	CCDC3	chr10:64772794-64777500	1.37	0.0004695
ENSSSCG00000014357	CXXC5	chr2:147317593-147321676	1.36	0.0004695
ENSSSCG00000029066	-	chr10:75367602-75370787	1.35	0.0004695
ENSSSCG00000004886	CDH7	chr1:173582717-173664142	1.35	0.0004695
ENSSSCG00000004980	THSD4	chr1:187774211-188055229	1.35	0.0004695
ENSSSCG00000016225	MOGAT1	chr15:138074694-138108905	1.35	0.0004695
ENSSSCG00000000298	-	chr5:20615287-20618072	1.35	0.0008767
ENSSSCG00000022945	UCHL1	chr8:33970636-33982093	1.35	0.0012461
ENSSSCG00000000521	PHLDA1	chr5:42877525-42878692	1.35	0.0004695
ENSSSCG00000027896	-	chr2:158351383-158382671	1.35	0.0012461
ENSSSCG00000001963	EGLN3	chr7:70667588-70695692	1.34	0.0004695
ENSSSCG00000027952	ADCY5	chr13:146611881-146680478	1.33	0.0004695

ENSSSCG00000025005	B4GALT6	chr6:108153076-108219519	1.33	0.0004695
ENSSSCG00000009059	MGST2	chr8:92874697-92878708	1.33	0.0004695
ENSSSCG00000023045	BAHCC1	chr12:1196638-1251035	1.33	0.0004695
ENSSSCG00000003909	-	chr6:152798323-152914703	1.32	0.0004695
ENSSSCG00000026176	-	chr14:55361401-55363169	1.32	0.0004695
ENSSSCG00000001064	GMPR	chr7:12850722-12893472	1.32	0.0004695
ENSSSCG00000011441	TNNC1	chr13:37805312-37808062	1.32	0.0004695
ENSSSCG00000005627	AK1	chr1:302277901-302287920	1.32	0.0004695
ENSSSCG00000013366	LDHA	chr2:43898276-43909456	1.31	0.0004695
ENSSSCG00000009901	SIRT4	chr14:42839903-42853514	1.31	0.0019286
ENSSSCG00000009617	REEP4	chr14:6848697-6852806	1.31	0.0004695
ENSSSCG00000003054	ZNF575	chr6:46148297-46153921	1.31	0.0115570
ENSSSCG00000022566	-	chr14:53237523-53242400	1.30	0.0061089
ENSSSCG00000010481	LGI1	chr14:114951194-114982775	1.30	0.0004695
ENSSSCG00000000118	MICALL1	chr5:7393700-7423243	1.30	0.0004695
ENSSSCG00000024070	CDK5	chr18:6536962-6541201	1.30	0.0004695
ENSSSCG00000010568	NPM3	chr14:122671873-122673382	1.30	0.0004695
ENSSSCG00000017072	GALNT10	chr16:74632972-74892889	1.30	0.0004695
ENSSSCG00000016599	GPR37	chr18:24665363-24681275	1.30	0.0004695
ENSSSCG00000029359	PHLDA3	chr10:28233387-28235940	1.29	0.0004695
ENSSSCG00000004533	RAB27B	chr1:114693708-114753806	1.29	0.0004695
ENSSSCG00000011894	POPDC2	chr13:149932129-149951356	1.29	0.0004695
ENSSSCG00000001848	MESP2	chr7:60232195-60234972	1.29	0.0004695
ENSSSCG00000001916	C15orf59	chr7:64342171-64354032	1.29	0.0004695
ENSSSCG00000009304	-	chr11:4209106-4211537	1.29	0.0004695
ENSSSCG00000016676	-	chr18:46529494-46660391	1.29	0.0068493
ENSSSCG00000013753	IER2	chr2:66211128-66211794	1.28	0.0004695
ENSSSCG00000015512	PAPPA2	chr9:130015439-130283638	1.28	0.0004695
ENSSSCG00000026220	CCDC8	chr6:47679735-47796430	1.28	0.0004695
ENSSSCG00000004219	CENPW	chr1:40459698-40468997	1.28	0.0124265
ENSSSCG00000020945	-	chr5:3782776-3786298	1.27	0.0004695
ENSSSCG00000014878	PAK1	chr9:12979526-13124092	1.27	0.0004695
ENSSSCG00000016373	BOK	chr15:154816152-154817291	1.27	0.0004695
ENSSSCG00000023638	-	chr14:45178764-45179160	1.27	0.0004695
ENSSSCG00000007995	FAM195A	chr3:41348588-41353426	1.27	0.0004695
ENSSSCG00000001421	ZBTB12	chr7:27778159-27819252	1.27	0.0045648
ENSSSCG00000017539	HOXB6	chr12:24871088-24873383	1.27	0.0050831
ENSSSCG00000024018	SLC16A3	chr12:963451-967637	1.26	0.0004695
ENSSSCG00000014975	CNTN5	chr9:35088724-35526955	1.26	0.0004695
ENSSSCG00000023212	CPI17	chr6:42669943-42674708	1.26	0.0004695
ENSSSCG00000015589	VASH2	chr9:143403748-143438248	1.26	0.0004695
ENSSSCG00000006122	NECAB1	chr4:49651793-49861211	1.26	0.0120028
ENSSSCG00000027525	DHCR24	chr6:145547687-145582947	1.26	0.0004695
ENSSSCG00000008557	EMILIN1	chr3:119030263-119038488	1.25	0.0004695
ENSSSCG00000012584	CAPN6	chrX:105673314-105702685	1.24	0.0004695
ENSSSCG00000015025	CRYAB	chr9:44428186-44434635	1.24	0.0004695
ENSSSCG00000006547	SHE	chr4:104110560-104134126	1.24	0.0004695

ENSSSCG00000005524	DAB2IP	chr1:294001794-294026582	1.23	0.0004695
ENSSSCG00000015617	G0S2	chr9:146493480-146494458	1.23	0.0004695
ENSSSCG00000017396	PSMC3IP	chr12:20457020-20462245	1.22	0.0339774
ENSSSCG00000006183	SBSPON	chr4:68314289-68336217	1.22	0.0004695
ENSSSCG00000000117	-	chr5:7384569-7390994	1.22	0.0008767
ENSSSCG00000015140	-	chr9:55406198-55409607	1.22	0.0004695
ENSSSCG00000007603	NPTX2	chr3:5732131-5740519	1.22	0.0104752
ENSSSCG00000003157	LIN7B	chr6:50015308-50018862	1.22	0.0355831
ENSSSCG00000025527	-	chr17:17683080-17683527	1.22	0.0008767
ENSSSCG00000012467	KLHL4	chrX:80884836-81001424	1.22	0.0004695
ENSSSCG00000008227	ST3GAL5	chr3:61762317-61768094	1.21	0.0028732
ENSSSCG00000011622	KBTBD12	chr13:79782366-79835088	1.21	0.0004695
ENSSSCG00000013403	GALNT18	chr2:51311826-51510559	1.21	0.0004695
ENSSSCG00000000981	CRELD2	chr5:110965838-110973596	1.21	0.0004695
ENSSSCG00000003329	ACAP3	chr6:58048100-58058468	1.21	0.0004695
ENSSSCG00000016222	KCNE4	chr15:138616539-138617052	1.21	0.0004695
ENSSSCG00000013517	UHRF1	chr2:74678783-74711249	1.21	0.0004695
ENSSSCG00000016616	FAM3C	chr18:27173919-27217054	1.21	0.0004695
ENSSSCG00000027494	PCDH10	chr8:99226395-99230428	1.20	0.0004695
ENSSSCG00000000735	TSPAN9	chr5:69219129-69394433	1.20	0.0004695
ENSSSCG00000009630	EGR-3	chr14:7426275-7428160	1.19	0.0147289
ENSSSCG00000026044	FDFT1	chr14:16164825-16199406	1.19	0.0004695
ENSSSCG00000017544	ATP5G1	chr12:25066818-25069489	1.19	0.0004695
ENSSSCG00000022307	RAB7B	chr9:72916106-72946419	1.19	0.0004695
ENSSSCG00000017380	ARL4D	chr12:19790868-19792763	1.19	0.0004695
ENSSSCG00000022888	ITPKB	chr10:16758184-16763268	1.19	0.0004695
ENSSSCG00000026784	LMNB2	chr2:76677376-76698045	1.19	0.0004695
ENSSSCG00000005450	PALM2	chr1:281510946-281730889	1.19	0.0004695
ENSSSCG00000001778	BCL2A1	chr7:54395230-54406136	1.19	0.0004695
ENSSSCG00000009364	FREM2	chr11:13998823-14221287	1.19	0.0004695
ENSSSCG00000013277	TP53I11	chr2:18926230-18941123	1.19	0.0004695
ENSSSCG00000002449	NDUFB1	chr7:120296366-120298214	1.18	0.0004695
ENSSSCG00000029111	-	chr9:125072642-125082828	1.18	0.0004695
ENSSSCG00000010069	DERL3	chr14:53313339-53315404	1.18	0.0028732
ENSSSCG00000015015	ARHGAP20	chr9:43174647-43222583	1.18	0.0004695
ENSSSCG00000012967	FOSL1	chr2:5534024-5541866	1.17	0.0004695
ENSSSCG00000001379	TUBB	chr7:26969701-26974207	1.17	0.0004695
ENSSSCG00000014935	FAT3	chr9:28144708-28725103	1.16	0.0004695
ENSSSCG00000030546	HSD11B1L	chr2:73812198-73816650	1.16	0.0012461
ENSSSCG00000000734	-	chr5:69160418-69215143	1.16	0.0004695
ENSSSCG00000001977	STXBP6	chr7:79510867-79712569	1.16	0.0004695
ENSSSCG00000006759	OLFML3	chr4:116704501-116707235	1.15	0.0004695
ENSSSCG00000008866	GUCY1A3	chr8:46456919-46537331	1.15	0.0004695
ENSSSCG00000003018	LIPE	chr6:45444858-45454620	1.15	0.0004695
ENSSSCG00000022933	EFR3B	chr3:120779482-120799552	1.15	0.0004695
ENSSSCG00000002474	PPP4R4	chr7:122462184-122531214	1.15	0.0004695
ENSSSCG00000015474	-	chr9:125188691-125235698	1.15	0.0004695

ENSSSCG00000006924	GBP1	chr4:139650957-139667272	1.14	0.0004695
ENSSSCG00000017723	CCL2	chr12:42514167-42516128	1.14	0.0004695
ENSSSCG00000014310	CXCL14	chr2:143444415-143453547	1.14	0.0004695
ENSSSCG00000007541	PDGFA	chr3:154799-169916	1.14	0.0004695
ENSSSCG00000003064	ETHE1	chr6:46217031-46327364	1.14	0.0019286
ENSSSCG00000017893	FAM64A	chr12:52896987-52901671	1.14	0.0004695
ENSSSCG00000009862	RNFT2	chr14:37854311-37909901	1.14	0.0004695
ENSSSCG00000017837	RAP1GAP2	chr12:50833048-50869307	1.14	0.0004695
ENSSSCG00000013895	-	chr2:59234169-59255713	1.13	0.0004695
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ENSSSCG000000009794	MLXIP	chr14:32288281-32451336	-1.31	0.0004695
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ENSSSCG00000000645	-	chr5:64622526-64631775	-1.74	0.0004695
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ENSSSCG00000023356	-	chr1:126147026-126172480	-2.25	0.0012461
ENSSSCG00000016521	-	chr18:12657901-12772402	-2.26	0.0004695
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ENSSSCG00000015766	-	chr15:44346306-44394307	-2.31	0.0004695
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ENSSSCG00000020507	U6atac	chr10:12247436-12247554	-3.46	0.0122208
ENSSSCG00000006796	CHI3L2	chr4:119320216-119544247	-3.74	0.0075683
ENSSSCG00000019018	SNORA9	chr18:55400246-55400378	-3.81	0.0075683
ENSSSCG00000024766	-	chr16:19305641-19307591	-5.60	0.0066279

Supplemental Table S2

Fold Expression in CF Compared to WT		
Gene	qPCR	RNAseq
<i>CFTR</i>	0.07	0.18
<i>MYL6</i>	3.49	1.59
<i>CALM6</i>	3.19	1.90
<i>MLCK</i>	1.69	1.46
<i>ROCK1</i>	1.67	1.37

Supplemental Table S2. Validation of RNAseq results using qRT-PCR. Comparison between qPCR and RNA-Seq data of gene expression changes in airway smooth muscle tissue. Gene abbreviations are CFTR, Cystic Fibrosis Transmembrane Conductance Regulator; MYL6, Myosin Light Chain 6; CALM6, Calmodulin-6; MLCK, Myosin Light Chain Kinase; ROCK1, Rho Associated Coiled-Coil Containing Protein Kinase 1.

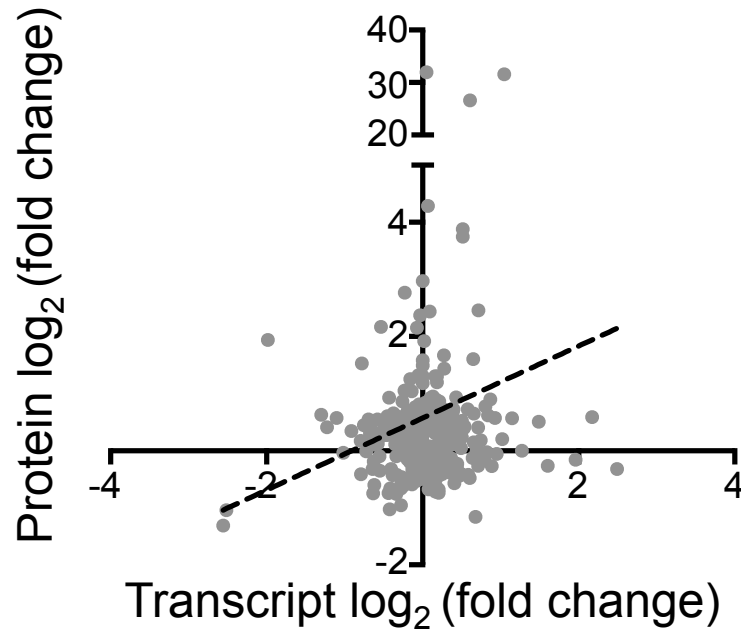
Supplemental Table S3

Top Upstream Regulators

Gene	Log ₂ (Fold)
<i>BDNF</i>	-3.05
<i>AKT3</i>	-2.02
<i>PI3K</i>	2.50
<i>WNT</i>	2.90
<i>ANGP1</i>	2.96
<i>FOS</i>	3.03
<i>PDE</i>	3.48
<i>ENO3</i>	4.61
<i>ATF/CREB</i>	9.02

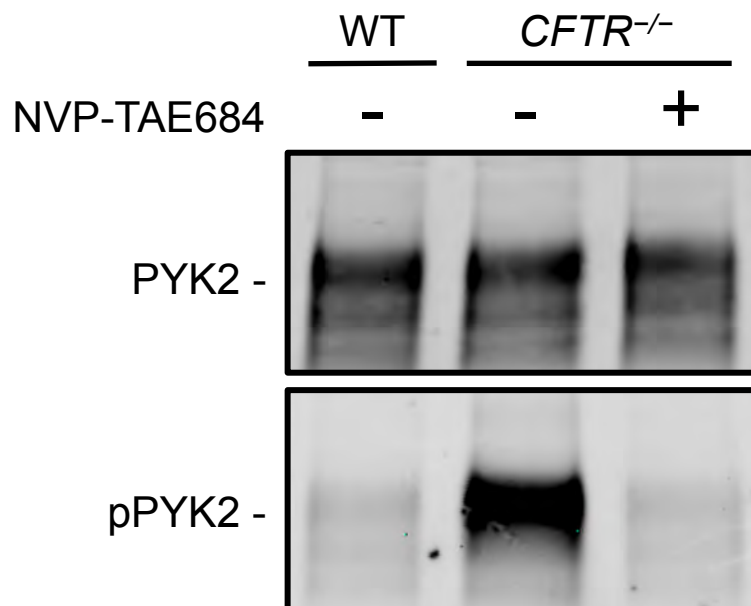
Supplemental Table S3. Dysregulation of upstream regulators in *CFTR*^{-/-} airway smooth muscle. The relative log₂ fold changes of the top upstream regulator genes in *CFTR*^{-/-} airway smooth muscle tissue. Gene abbreviations are BDNF, Brain-derived neurotrophic factor; AKT3, Protein Kinase B 3; PI3K, Phosphatidylinositol-4,5-bisphosphate 3-kinase; WNT, Wnt-4; ANGPT1, Angiotensin 1; FOS, G0/G1 Switch Regulatory Protein 7; PDE, phosphodiesterase; ENO3, Enolase 3; ATF, activating transcription factor; CREB, CAMP Responsive Element Binding Protein.

Supplemental Fig S1



Supplemental Figure S1. Correlation of protein and transcript changes present in airway smooth muscle due to loss of CFTR. Correlation plot of the log₂ fold change in total protein abundance for proteins identified by antibody array to the log₂ fold change in transcript for those same proteins. Each dot represents a protein.

Supplemental Fig S2



Supplemental Figure S2. *CFTR*^{-/-} airway smooth muscle cells show increased PYK2 phosphorylation that is rescued by PYK2 inhibition. WT, *CFTR*^{-/-}, and NVP-TAE684 pretreated *CFTR*^{-/-} airway smooth muscle cell lysates were immunoprecipitated using a PYK2 antibody and compared via immunoblot. Antibodies to PYK2 and phosphorylated PYK2 were used to stain the immunoblot.