

KEY RESOURCES TABLE

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Antibodies		
SLC17A9	Abcam	ab185576
KCNH1	Affinity	DF4319
GAPDH	Abways	AB0037
Critical commercial assays		
CKK-8	Topscience Co. Ltd.	C0005-10ml
Experimental models: Cell lines		
HK-2	ATCC	CRL-2190
A498	ATCC	HTB-44
786-O	ATCC	CRL-1932
ACHN	ATCC	CRL-1611
TK-10	Shanghai Binsui Biotechnology Co., Ltd.	BS-C01006333
Experimental models: Organisms/strains		
BALB/c	Hangzhou Ziyuan Experimental Animal Technology Co., Ltd.	N/A
Oligonucleotides		
SLC17A9 Forward:5'-AGCGAGCCTTCACCTACAGCAT-3'	General Biol	N/A
SLC17A9 Reverse:5'-ATGCTCTGCCAGCCGTACCATT-3'	General Biol	N/A
KCNH1 Forward:5'-CTGCTTTGTGGTTTCTGGCTCC-3'	General Biol	N/A
KCNH1 Reverse:5'-GCAGATCACAGTAGGTCAAGGC-3'	General Biol	N/A
$\beta$ -actin Forward:5'-GGACCTGACAGACTACCTCA-3'	General Biol	N/A
$\beta$ -actin Reverse:5'-GTTGCCAATAGTGATGACCT-3'	General Biol	N/A
Negative control Forward:5'-UUCUCCGAACGUGUCACGUTT-3'	GenePharma	N/A
Negative control Reverse:5'-ACGUGACACGUUCGGAGAATT-3'	GenePharma	N/A
si-SLC17A9-1 Forward:5'-CUCUGAUCUUCUCAAUUTT-3'	GenePharma	N/A
si-SLC17A9-1 Reverse:5'-AUUGAUGAGAUGAUCAGAGTT-3'	GenePharma	N/A
si-SLC17A9-2 Forward:5'-GCAUUUCUGUUAACAUCATT-3'	GenePharma	N/A
si-SLC17A9-2 Reverse:5'-UGGAUGUUAACAGAAAUGCTT-3'	GenePharma	N/A

si-SLC17A9-3 Forward:5'- CUUGCCUGUUAACCUUGUTT-3'	GenePharma	N/A
si-SLC17A9-3 Reverse:5'- ACAAGGUUGAACAGGCAAGTT-3'	GenePharma	N/A
Negative control Forward:5'- UUCUCCGAACGUGUCACGUTT-3'	GenePharma	N/A
Negative control Reverse:5'- ACGUGACACGUUCGGAGAATT-3'	GenePharma	N/A
si-KCNH1-1 Forward:5' - GCGGUCCAAUGAUACUAAUTT-3'	GenePharma	N/A
si-KCNH1-1 Reverse:5' - AUUAGUAUCAUUGGACCGCTT-3'	GenePharma	N/A
si-KCNH1-2 Forward:5' - GGUGGACAUUGUGCUCUAAUTT-3'	GenePharma	N/A
si-KCNH1-2 Reverse:5' - AUUGAGCACAAUGUCCACCTT-3'	GenePharma	N/A
si-KCNH1-3 Forward:5' - CCUCGUUGUAUUUCACAAUTT-3'	GenePharma	N/A
si-KCNH1-3 Reverse:5' - AUUGUGAAAUACAACGAGGTT-3'	GenePharma	N/A
si-KCNH1-4 Forward:5' - CUCACAUCAUCUUACAUUATT-3'	GenePharma	N/A
si-KCNH1-4 Reverse:5' - UAAUGUAAGAUGAUGUGAGTT-3'	GenePharma	N/A
Recombinant DNA		
SLC17A9- lentivirus plasmid	General Biol	IDENTIFIER
Software and algorithms		
GraphPad Prism 8.0	GraphPad Prism Software, Inc	
SPSS Statistics 23.0	IBM Corporation, Armonk NY, USA	
R-4.0.3	R	