

Product datasheet for **RG210976**

SLC9A3 (NM_004174) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A3 (NM_004174) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC9A3
Synonyms:	DIAR8; NHE-3; NHE3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG210976 representing NM_004174
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGGACTCGGGGCCGGGGCCCCGACCGGGGGCTGTGCTGGCGCTGGCGTGGGCGGGCTGGCGC
 GGGCCGGGGGCGTCGAGGTGGAGCCCGGGCGCGCACGCGGAGAGCGGGGGCTTCCAGGTGGTCACTT
 CGAGTGGGCCACGTGCAGGATCCCTACGTCATCGCGCTCTGGATCCTCGTGGCCAGCTTGGCCAAGATC
 GGGTTCCACCTGTCCCACAAGGTCACCAGCGTGGTTCGAGAGCGCCCTGCTCATCGTGTGGGCTGG
 TGCTGGGCGGCATCGTCTGGGCGCCGACCACATCGCGTCTTACACTGACGCCACCCTTCTTCTTCT
 CTACCTGTGCCCCCATCGTCTGGACCGCGTACTTCATGCCAACCGCCTTCTTTCGGAACCTG
 GGGACCATCTGTGTACGCCGTGTGGTACCGTGTGGAACCGCGCCACCACCGGGCTGTCCCTTACG
 GCGTCTTCTCAGTGGGCTCATGGGCGACTGCAGATTGGGCTGTGGACTTCTCTGTGGCAGCCT
 CATGGCGGCTGTGGACCCGGTGGCGTCTGGCGTGTGGAGGAGTCCATGTCAACGAGGTCCTGTT
 ATCATCGTCTCGGGGAGTCGCTGTGAACGACGAGTACCGTGGTTCGTACAATGTGTTGAATCTT
 TCGTGGCGCTGGGAGGTGACAACGTGACTGGCGTGGACTGCGTGAAGGGCATAGTGTCTTCTCGTGGT
 GAGCCTGGGGGACGCTGGTGGGGTGGTCTTCGCTTCTGTGCTGCGTGGTACGCGCTTACCAAG
 CATGTGCGTATCATCGAGCCCGCTTCTGTTCATCATCTCTACCTGTCTACCTGACGTCCGAGATGC
 TGTGCTGTGGCCATCTCGCCATCACCTTCTGTGGCATCTGTGTGAGAAGTATGTGAAGGCCAACAT
 CTCGGAGCAGTCGGCCACCACCGTGGCTACACCATGAAGATGCTGGCCAGCAGCGCCGAGACCATCAT
 TTCATGTTCTGGGTATCTCGGCCGTGAACCCGTTTCATCTGGACCTGGAACACGGCCTTCGTGCTCTGA
 CGCTGGTCTTTCATCTCCGTGTACCGGGCCATCGGTGTGGTCTGCAGACCTGGCTTCTGAACCGTACCG
 CATGGTGCAGCTGGAGCCATTGACCAGGTGGTCTGTCTACGGGGCCTGCGCGGGGCGGTGGCCTTT
 GCCCTGGTGGTGTCTTGGATGGAGACAAGGTCAAGGAGAAGAACCCTGTTGTCGTCAGCACCCATCATCG
 TAGTGTCTTCCACGTCATCTTCCAGGGCCTGACCATCAAGCCTCTGGTGCAGTGGCTGAAGGTGAAGAG
 GAGCGAGCACCGGAACCTCGGCTCAACGAGAAGTGCACGGCCGCGCTTTCGACCACATCTCTCGGCC
 ATCGAGGACATATCCGGACAGATCGGGCACAATTATCTCAGAGACAAGTGGTCCCACTTCGACAGGAAGT
 TCCTCAGCAGGGTCTCATGAGACGGTCCGCCAGAGTCTCGAGACCGGATCCTGAATGTCTTCCACGA
 GCTGAACCTGAAGGATGCCATCAGTACGTGGCTGAGGGAGAGCGCCGCGGGTCCCTGGCCTTATCCGC
 TCCCCAGCACCGACAACGTGGTCAACGTGGACTTCACGCCACGATCGTCCACCGTGGAGGCTCTGTCT
 CCTACCTCCTGAGAGAAAATGTCAGCGCTGTCTGCTGGACATGCAGTCTCTGGAGCAGCGACGGCGGAG
 CATCCGGGACCGGAGGACATGGTCAACGACACACGCTACAGCAGTACCTGTACAAGCCGCGGAGGAG
 TACAAGCATCTGTACAGCCGACACGAGCTCACGCCACGGAGGACGAGAAACAGGACCGGAAATCTTCC
 ACAGGACCATGCGGAAGCGCCTGGAGTCTTCAAGTCGACCAAGCTGGGGCTCAACCAGAACAAAGAGGC
 AGCCAAGCTGTACAAGCGGGAGCGTGCCAGAGCGGAGAAACAGCAGCATCCCCAATGGGAAGTGTCCC
 ATGGAGAGCCCTGCGCAGAAATTTACCATCAAGGAGAAAGACTTGAACCTTTCAGACCCGAGGAGCCCC
 CCAACTATGATGAGGAGATGAGTGGGGGATCGAGTTCCTGGCTAGTGTACCAAGGACACACGCTCCGA
 CTCCCCGCAGGAATTGACAACCTGTGTTTTCTCCGGACGAGGCCCTGGACCGCAGCCTCTGGCCAGG
 CTGCCGCCCTGGTGTCTCCCGGGGAGACGGTGGTCCCCCTGCAGAGGGCCCGCACGCAGATTCCCTACT
 CTCCCGGCACCTTCCGCCCTGATGCCCTTCCGCTCAGCAGCAAGTCCGTGGACTCCTTCTGACGGC
 AGACGGCCCCGAGGAGCGGCCCCCGCCGCTCCCCGAGTCCACACATG

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG210976 representing NM_004174
Red=Cloning site Green=Tags(s)

MWGLGARGPDRGLLLALALGGLARAGGVEVEPGGAHGESSGGFQVVTFEWAHVQDPYVIALWILVASLAKI
GFHLSHKVTSVVPESALLIVLGLVLGGIWAADHIASFLLTPTVFFFYLLPPIVLDAGYFMPNRLFFGNL
GTILLYAVVGTWNAATTGLSLYGVFLSGLMGDLQIGLLDFLLFGSLMAAVDPVAVLAVFEEVHVNEVLF
IIVFGESLLNDAVTVVL YNVFESFVALGGDNVTGVDCVKGIVSFFVVSLLGGTLVGVVFAFLLSLVTRFTK
HVRIIEPGFVFIIISYLSYLTSEMLSLSAILAITFCGICCCQKYVKANISEQSATTVRYTMKMLASSAETII
FMFLGISAVNPF IWTWNTAFVLLTLVFI SVYRAIGVVLQTWLLNRYRMVQLEPIDQVVL SYGGLRGAVAF
ALVVLDDGDKVKEKNL FVSTTII VVFFTVIFQGLTIKPLVQWLKVKRSEHREPRLNEKLHGAFDHILSA
IEDISGQIGHNYLRDKWSHFDRKFLSRVLMRMSAQKSRDRILNVFHELNLKDAISYVAEGERRGSLAFIR
SPSTDNVVNDFTPRSSTVEASVSYLLRENVSAVCLDMQSLERRRSIRDAEDMVTHHTLQQYLKPRQE
YKHLYSRHELTPTEDEKQDREIFHRTMRKRLSEFKSTKGLNQNKKAACLKRRERAQKRRNSSIPNGKLP
MESPAQNFTIKEKDLELSDTEPPNYDEEMSGGIEFLASVTKDTASDSPAGIDNPVFSPEALDRSLLAR
LPPWLSGETVVPSSQRARTQIPYSPGTFRRLLMPFRLSSKSVDSFLQADGPEERPPAALPESTHM

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_004174

ORF Size: 2502 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_004174.1](#), [NP_004165.1](#)

RefSeq Size: 2584 bp

RefSeq ORF: 2505 bp

Locus ID: 6550

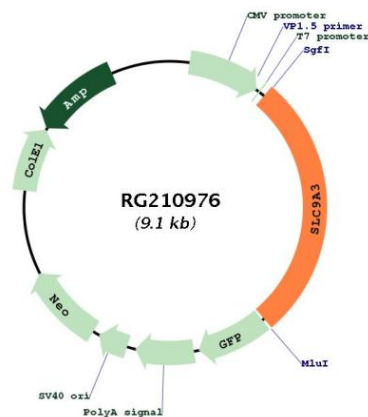
UniProt ID: [P48764](#)

Cytogenetics: 5p15.33

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The protein encoded by this gene is an epithelial brush border Na/H exchanger that uses an inward sodium ion gradient to expel acids from the cell. Defects in this gene are a cause of congenital secretory sodium diarrhea. Pseudogenes of this gene exist on chromosomes 10 and 22. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG210976