

Product datasheet for **RC239640**

SLC9A3 (NM_001284351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A3 (NM_001284351) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC9A3
Synonyms:	DIAR8; NHE-3; NHE3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC239640 representing NM_001284351
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGGGACTCGGGCCCGGGGCCCGACCGGGGGCTGTGCTGGCGCTGGCGTGGGCGGGCTGGCGC
GGGCCGGGGCGTCGAGGTGGAGCCCGCGCGCGCACGGCGAGAGCGGGGGCTTCCAGGTGGTCACTT
CGAGTGGGCCACGTGCAGGATCCCTACGTCATCGCGCTCTGGATCCTCGTGGCCAGCTTGGCCAAGATC
GGGTTCCACCTGTCCCACAAGGTCACCAGCGTGGTTCGAGAGCGCCCTGCTCATCGTGTGGGCTGG
TGCTGGGCGGCATCGTCTGGGCGCCGACCACATCGCGTCTTACACTGACGCCACCCTTCTTCTT
CTACCTGTGCCCCCATCGTCTGGACCGCGCTACTTCATGCCAACCGCCTTCTTTCGCAACCTG
GGGACCATCCTGTTGTACGCCGTCTGGGTACCGTGTGGAACCGCGCCACCACCGGGCTGTCCCTACG
GCGTCTTCTCAGTGGGCTCATGGGCGACTGCAGATTGGGCTGTGGACTTCTCCTGTTTGGCAGCCT
CATGGCGGCTGTGGACCCGGTGGCGTCTGGCGTGTGGAGGAGTCCATGTCAACGAGGTCTGTTC
ATCATCGTCTCGGGGAGTCGCTGTGAACGACGAGTACCGTGGTTCGTACAATGTGTTGAATCTT
TCGTGGCGCTGGGAGGTGACAACGTGACTGGCGTGGACTGCGTGAAGGGCATAGTGTCTTCTCGTGGT
GAGCCTGGGGGACGCTGGTGGGGTGGTCTTCGCTTCTGCTGTGCGTGGTACGCGCTTACCAAG
CATGTGCGTATCATCGAGCCCGCTTCTGTTCATCATCTCTACCTGTCTACCTGACGTCCGAGATGC
TGTGCTGTGGCCATCCTCGCCATCACCTTCTGTGGCATCTGCTGTGAGAAGTATGTGAAGGCCAAT
CTCGGAGCAGTCGGCCACCACCGTGGCTACACCATGAAGATGCTGGCCAGCAGCGCCGAGACCATCATC
TTCATGTTCTGGGTATCTCGGCCGTGAACCGTTCATCTGGACCTGGAACACGGCCTTCGTGCTCTGA
CGCTGGTCTTCTCCTGTTGACCGGGCCATCGGTGTGGTCTGCAGACCTGGCTTCTGAACCGTACCG
CATGGTGCAGCTGGAGCCATTGACCAGGTGGTCTGTCTACGGGGCCCTGCGCGGGGCCGTGGCCTTT
GCCCTGGTGGTCTTCTGGATGGAGACAAGGTCAAGGAGAAGAACCCTGTTCTGTCAGCACCCACATCATCG
TAGTGTCTTCCACGTCATCTTCCAGTGGCTGAAGGTGAAGAGGAGCGAGCACCGGGAACCTCGGCTCAA
CGAGAAGCTGCACGGGCGCTTTCGACCACATCCTCTCGGCCATCGAGGACATATCCGGACAGATCGGG
CACAATTATCTCAGAGACAAGTGGTCCCCTTCGACAGGAAGTTCCTCAGCAGGGTCTCATGAGACGGT
CGGCCCAGAAGTCTCGAGACCGGATCCTGAATGTCTTCCACGAGCTGAACCTGAAGGATGCCATCAGCTA
CGTGGCTGAGGGAGAGCGCCGGGTCCCTGGCCTTCTCCGCTCCCCAGCACCGACAACGTGGTCAAC
GTGGACTTACGCCACGATCGTCCACCGTGGAGGCTCTGTCTCTACCTCCTGAGAGAAAATGTCAGCG
CTGTCTGCTGGACATGCAGTCTCTGGAGCAGCGACGGCGGAGCATCCGGGACCGGAGGACATGGTCA
GCACCACAGCTACAGCAGTACCTGTACAAGCCGCGCAGGAGTACAAGCATCTGTACAGCCGACACGAG
CTCACGCCACGGAGGACGAGAAACAGGACCGGAAATCTTCCACAGGACCATGCGGAAGCGCCTGGAGT
CCTTCAAGTCGACCAAGCTGGGGCTCAACCAGAAACAAGAAGCGGCAAGCTGTACAAGCGGGAGCGTGC
CCAGAAGCGGAGAAACAGCAGCATCCCCAATGGGAAGTGCCTTGGAGAGCCCTGCGCAGAAATTCACC
ATCAAGGAGAAAGACTTGAACCTTTCAGACACCGAGGAGCCCCCAACTATGATGAGGAGATGAGTGGGG
GGATCGAGTCTCTGGCTAGTGTACCAAGGACACAGCGTCCGACTCCCCGAGGAATTGACAACCTGT
GTTTTCTCCGGACGAGGCCCTGGACCGCAGCCTCTGGCCAGGCTGCCGCCCTGGCTGTCTCCCGGGGAG
ACGGTGGTCCCCTCGCAGAGGGCCCGCACGCAGATTCCTACTCTCCCGCACCTTCTGCCGCTGATGC
CCTTCCGCTCAGCAGCAAGTCCGTGGACTCCTTCTGACGCGAGACGGCCCCGAGGAGCGGCCCCCGC
CGCCCTCCCCGAGTCCACACATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239640 representing NM_001284351
Red=Cloning site Green=Tags(s)

MWGLGARGPDRGLLLALALGGLARAGGVEVEPGGAHGESSGGFQVVTFEWAHVQDPYVIALWILVASLAKI
GFHLSHKVTSVVPESALLIVLGLVLGGIVWAADHIASFTLTPTVFFFYLLPPIVLDAGYFMPNRLFFGNL
GTILLYAVVGTVWNAATTGLSLYGVFLSGLMGDLQIGLLDFLLFGSLMAAVDPVAVLAVFEEVHVNEVLF
IIVFGESLLNDAVTVVLYNVFESFVALGGDNVTGVDCVKGIVSFFVVSLLGGTLVGVVFAFLLSLVTRFTK
HVRIIEPGFVFIISYLSYLTSEMLSAILAITFCGICCCQKYVKANISEQSATTVRYTMKMLASSAETII
FMFLGISAVNPFIWNTWNTAFVLLTLVVISVYRAIGVVLQWLLNRYRMVQLEPIDQVVL SYGGLRGAVAF
ALVVLDDGDKVKEKNL FVSTTII VVFFTVIFQWLKVKRSEHREPR LNEKLHG RAFDHILSAIEDISGQIG
HNYLRDKW SHFDRKFLSRVLMR RSAQKSRDRILNVFHELNLKDAISYVAEGERRGSLAFIRSPSTDNVVN
VDFTPRSSTVEASVSYLLRENVSAVCLDMQSLEQRRRSIRDAEDMVTHHTLQQYL YKPRQEYKHL YSRHE
LTPTDEKQDREIFHRTMRKRLESFKSTKLG L NQNKAAKLYKRERAQKRRNSSIPNGKLPMESPAQNFT
IKEKDLELSDTEPPNYDEEMSGGIEFLASVTKDTASDSPAGIDNPVFS PDEALDRSLLARLPPWLS PGE
TVVPSQRARTQIPYSPGTF CRLMPFRLSSKSVDSFLQADGPEERPPAALPESTM

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

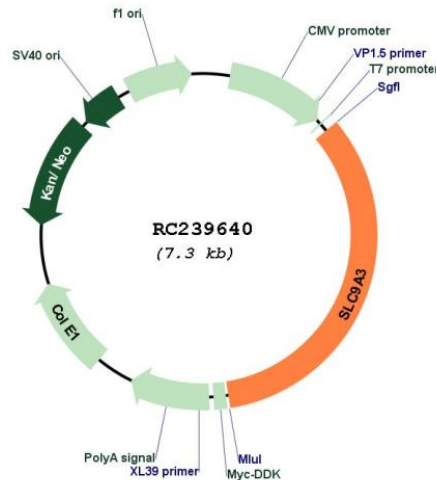
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001284351

ORF Size: 2475 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_001284351.3](#)

RefSeq Size: 2750 bp

RefSeq ORF: 2478 bp

Locus ID: 6550

UniProt ID: [P48764](#)

Cytogenetics: 5p15.33

Protein Families: Druggable Genome, Transmembrane

MW: 92.4 kDa

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]