

Product datasheet for **RG234522**

SLC9A8 (NM_001260491) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A8 (NM_001260491) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC9A8
Synonyms:	NHE-8; NHE8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234522 representing NM_001260491
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGGGGAGAAGATGGCGGAAGAGGAGAGGTTCCCAATACAACATCATGAGGGTTTCAATGTCACCCCTCC
 ACACCACCCTGGTTGTCACGACGAACTGGTGCTCCCGACCCCTGGCAAGCCCATCTCCCGTGCAGAC
 AGGGGAGCAGGCCAGCAAGAGGAGCAGTCCAGCGGCATGACCATTTTCTTCAGCCTCCTGTCTAGCT
 ATCTGCATCATATTGGTGCATTTACTGATCCGATACAGATTACATTTCTTGCCAGAGAGTGTGCTGTTG
 TTTCTTTAGGTATTCTCATGGGAGCAGTTATAAAAATTATAGAGTTTAAAAAACTGGCGAATTGGAAGGA
 AGAAGAAATGTTTCGTCCAAACATGTTTTCTCTCTGCTTCCCCCTATTATCTTTGAGTCTGGATAT
 TCATTACACAAGGTAACCTCTTTCAAATATTGGTTCATCACCTGTTTGCTGTTTTTGGGACGGCAA
 TCTCCGCTTTTGTAGTAGGTGGAGGAATTTATTTCTGGGTGAGGTTTTTTTTTGTGTGTCTGTGT
 GTTTGTGTGTTTTATTTACAGGCTGATGTAATCTCTAACTCAACATGACAGACAGTTTTGCGTTTGGC
 TCCTAATATCTGCTGTGATCCAGTGGCACTATTGCCATTTTCAATGCACTTCATGTGGACCCCGTGC
 TCAACATGCTGGTCTTTGGAGAAAGTATTCTCAACGATGCAGTCTCCATTGTTCTGACCAACACAGCTGA
 AGGTTTAAACAAGAAAAATATGTCAGATGTCAGTGGGTGGCAAACATTTTACAAGCCCTTGACTACTTC
 CTCAAAATGTTCTTTGGCTCTGCAGCGCTCGGCACTCTCACTGGCTTAATTTCTGCATTAGTGCTGAAGC
 ATATTGACTTGAGGAAAACGCCCTTCTTGGAGTTTGGCATGATGATCATTTTTGCTTATCTGCCTTATGG
 GCTTGCAGAAGGAATCTCACTCTCAGGCATCATGGCCATCCTTTTCTCAGGCATCGTGATGTCCTACTAC
 ACGCACCATAACCTCTCCCCAGTCACCCAGATCCTCATGCAGCAGACCCTCCGCACCGTGGCCTTCTTAT
 GTGAAACATGTGTGTTTGCAATTTCTGGCTGTCCATTTTGTGTTTCTCACAAGTTTGAAATTTCTT
 TGTCTATCTGGTGATAGTGTCTGTACTATTTGGCAGAGCGGTAACATTTTCCCTCTTCTACCTCTG
 AATTTCTTCCGGGATCATAAATCACACCGAAGATGATGTTTCATCATGTGGTTTGTGCGCTGCGGGGAG
 CCATCCCTATGCCCTGAGCCTACACCTGGACCTGGAGCCATGGAGAAGCGGCAGCTCATCGGCACCAC
 CACCATCGTCATCGTCTTCCACATCCTGCTGCTGGGCGGCAGCACCATGCCCTCATTGCCTCATG
 GACATCGAGGACCCAAGGCACACCGCAGGAACAAGAAGGACGTCAACCTCAGCAAGACTGAGAAGATGG
 GCAACACTGTGGAGTCGGAGCACCTGTCGGAGCTCACGGAGGAGGAGTACGAGGCCCACTACATCAGGCG
 GCAGGACCTTAAGGGCTTCGTGTGGCTGGACGCCAAGTACCTGAACCCCTTCTTCACTCGGAGGCTGACG
 CAGGAGGACCTGCACCACGGGCGCATCCAGATGAAAACCTCTACCAACAAGTGGTACGAGGAGGTACGCC
 AGGGCCCCCTCGGCTCCGAGGACGACGAGCAGGAGCTGCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234522 representing NM_001260491
 Red=Cloning site Green=Tags(s)

MGEKMAEEERFPNTTHEGFNVTLHTTLVVTTLKLVLPTPGKIPILPVQTGEAQQEEQSSGMTIFFSLLVLA
 ICIIIVHLLIRYRLHFLPESVAVVSLGILMGAVIKIIEFKLANWKEEMFRPNMFFLLLLPPIIFESGY
 SLHKGNNFQNIQSITLFAVFGTAISAFVVGGIYFLGQGFVFCVFCVFCILQADVISKLNMTDSFAFG
 SLISAVDPVATIAIFNALHVDVPLNMLVFGESILNDAVSIVLTNTAEGLTRKNMSDVSGWQTFLLQALDYF
 LKMFFGSAALGTLTGLISALVLKHIDLRKTPSLEFGMMIIFAYLPYGLAEGISL SGIMAILFSGIVMSHY
 THHNLSPVTQILMQQTLRTVAFLCETCVFAFLGLSIFSPHKFEISFVIWCIVLVLFGRVNIIFPLSYLL
 NFFRDHKITPKMMFIMWFSGLRGAIPYALSLHLDLEPMEKRQLIGTTTTIVIVLFTILLGGSTMPLIRLM
 DIEDAKAHRRNKKDVNLSTKTEKMNTVESEHSELTEEEYEAHYIRRQDLKGFVWLDKAYLNPFFTRRLT
 QEDLHHGRIQMKTLTNKYYEEVRQGPSGEDDEQELL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001260491

ORF Size: 1791 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_001260491.1](#), [NP_001247420.1](#)

RefSeq Size: 6326 bp

RefSeq ORF: 1794 bp

Locus ID: 23315

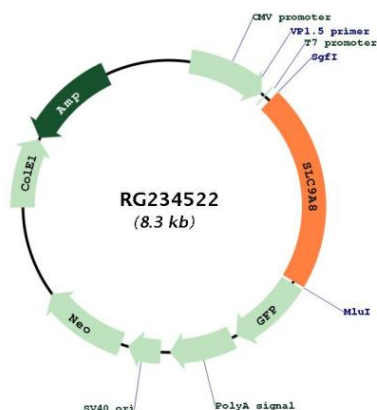
UniProt ID: [Q9Y2E8](#)

Cytogenetics: 20q13.13

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Sodium-hydrogen exchangers (NHEs), such as SLC9A8, are integral transmembrane proteins that exchange extracellular Na⁺ for intracellular H⁺. NHEs have multiple functions, including intracellular pH homeostasis, cell volume regulation, and electroneutral NaCl absorption in epithelia (Xu et al., 2008 [PubMed 18209477]).[supplied by OMIM, Apr 2009]

Product images:



Circular map for RG234522