

Product datasheet for **SC335999**

NHEDC2 (SLC9B2) (NM_001300756) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NHEDC2 (SLC9B2) (NM_001300756) Human Untagged Clone
Tag:	Tag Free
Symbol:	NHEDC2
Synonyms:	NHA2; NHE10; NHEDC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335999 representing NM_001300756. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGGGGGATGAAGATAAAAGAATTACATATGAAGATTCAGAACCATCCACAGGAATGAATTACAGCCC
TCCATGCATCAAGAAGCACAGGAGGAGACAGTTATGAAGCTCAAAGGTATAGATGCAAAATGAACCAACA
GAAGGAAGTATTCTTTGAAAAGCAGTGAAAAAAGCTACAAGAAACACCAACTGAAGCAAAATCACGTG
CAAAGACTGAGACAAATGCTGGCTTGCCTCCACATGGTTTACTGGACAGGGTCATAACAAATGGCATG
CTGCTTGACAGGTTTCTCATCAGAAATATCCAGTCATCAACGATAATGTGCAGATCAAGCACAAGTGG
TCTTCCTCTTTGAGAAGCATAGCCCTGTCTATCATTCTGGTTCGTGCTGGCCTTGGTCTGGATTCAAAG
GCCCTGAAGAAGTTAAAGGGCGTTTGTGAAGACTGTCCATGGGTCCCTGTATTGTGGAGGCGTGCACA
TCTGCTCTTCTGCCATTACCTGCTGGGTTTACCATGGCAATGGGGATTATACTGGGTTTGTGTTTA
GGTGCTGTATCTCCAGCTGTTGTGGTGCCTTCAATGCTCCTTTTGCAGGGAGGAGGCTATGGTGTGAG
AAGGGTGTCCCAACCTTGCTCATGGCAGCTGGCAGCTTCGATGACATTCTGGCCATCACTGGCTTCAAC
ACATGCTTGGGCATAGCCTTTTCCACAGGCTCTACTGTCTTAAATGTCTCAGAGGAGTTTGGAGGTG
GTAATTGGTGTGGCAACTGGATCTGTTCTTGGATTTTTCATTCACTACTTTCCAAGCCGTGACCAGGAC
AACTTGTGTGAAGAGAACATTCCTTGTGTTGGGTTGTCTGTGCTAGCTGTGTTCAAGCAGTGTGCAT
TTTGGTTTCCCTGGATCAGGAGGACTGTGCAGTTGGTCATGGCTTTCCTTGCAGGCATGGGATGGACC
AGCGAAAAGGCAGAGGTTGAAAAGATAATTGCAGTTGCCTGGGACATTTTTCAGCCCTTCTTTTGGGA
CTAATTGGAGCAGAGGTATCTATTGCATCTCTCAGACCAGAACTGTAGGCTGCAATAGGATCTGTGGC
TTTGGACACAGCAAGGTCATGGAGAGAAACAATTAGAAGACTATGGAATGGATGTGTTGACAGTGGC
ATTTTGTCCATCCTCATCAGCCCCAATTGGAAGTCTGCTTATTGGTTTACTGGGCCCCAGGCTTCT
GCAGAAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001300756
Insert Size:	1254 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001300756.1</u>
RefSeq Size:	2833 bp
RefSeq ORF:	1254 bp
Locus ID:	133308
UniProt ID:	<u>Q86UD5</u>
Cytogenetics:	4q24
Protein Families:	Druggable Genome, Transmembrane
MW:	45.1 kDa
Gene Summary:	Sodium hydrogen antiporters, such as NHEDC2, convert the proton motive force established by the respiratory chain or the F1F0 mitochondrial ATPase into sodium gradients that drive other energy-requiring processes, transduce environmental signals into cell responses, or function in drug efflux (Xiang et al., 2007 [PubMed 18000046]).[supplied by OMIM, Mar 2008] Transcript Variant: This variant (3) lacks two alternate exons in the central and 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1.