

## Product datasheet for **SC336372**

### **NHEDC2 (SLC9B2) (NM\_001300754) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NHEDC2 (SLC9B2) (NM_001300754) 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)



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**Fully Sequenced ORF:** >SC336372 representing NM\_001300754.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGGGATGAAGATAAAAGAATTACATATGAAGATTCAGAACCATCCACAGGAATGAATTACACGCC
TCCATGCATCAAGAAGCACAGGAGGAGACAGTTATGAAGCTCAAAGGTATAGATGCAAATGAACCAACA
GAAGGAAGTATTCTTTTAAAAGCAGTGAAAAAAGCTACAAGAAACACCAACTGAAGCAAATCAGGTA
CAAAGACTGAGACAAATGCTGGCTTGCCTCCACATGGTTTACTGGACAGGGTCATAACAAATGGCATG
CTGCTTGACAGGTTTCTCATCAGAAATATCCAGTCATCAACGATAATGTGCAGATCAAGCACAAGTGG
TCTTCTCTTTGAGAAGCATAGCCCTGTCTATCATTCTGGTTCGTGCTGGCCTTGGTCTGGATTCAAAG
GCCCTGAAGAAGTTAAAGGGCGTTGTGAAGACTGTCCATGGTCCCTGTATTGTGGAGCGTGCACA
TCTGCTCTTCTGCCATTACCTGCTGGGTTTACCATGGCAATGGGGATTATACTGGGTTTTGTTTTA
GGTGTGTATCTCCAGCTGTTGGTGCCTTCAATGCTCCTTTTGCAGGGAGGAGCTATGGTGTGAG
AAGGGTGTCCCAACCTTGCTCATGGCAGCTGGCAGCTTCGATGACATTCTGGCCATCACTGGCTTCAAC
ACATGCTTGGGCATAGCCTTTTCCACAGCTCTACTGTCTTAAATGTCTCAGAGGAGTTTTGGAGGTG
GTAATTGGTGTGGCAACTGGATCTGTTCTTGGATTTTTATTTCAGTACTTTCCAAGCCGTGACCAGGAC
AACTTGTGTGAAGAGAATTCCTTGTGTTGGGGTGTCTGTGCTAGCTGTGTTCAGCAGTGTGCAT
TTTGGTTTCCCTGGATCAGGAGGACTGTGCACGTTGGTGCATGGCTTTCCTTGCAGGCATGGGATGGACC
AGCGAAAAGGCAGAGGTTGAAAAGATAATTGCAGTTGCCTGGGACATTTTTCAGCCCTTCTTTTGGGA
CTAATTGGAGCAGAGGTATCTATTGCATCTCTCAGACCAGAACTGTAGGCCTTGTGTTGCCACCGTA
GGCATTGCAGTATTGATACGAATTTTACTACATTTCTGATGGTGTGTTTGTGCTGGTTTTAACTTAAAA
GAAAAGATATTTTCTTTTGCATGGCTTCAAAGGCCACAGTTCAGGCTGCAATAGGATCTGGGCT
TTGGACACAGCAAGGTCACATGGAGAAACAATTAGAAGACTATGGAATGGATGTGTTGACAGTGGCA
TTTTTGTCCATCCTCATCACAGCCCAATTGGAAGTCTGCTTATTGGTTTACTGGCCCCAGGCTTCTG
CAGAAAGTTGAACATCAAATAAAGATGAAGAAGTTCAAGGAGAGACTTCTGTGCAAGTTTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001300754

**Insert Size:** 1443 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:** [NM\\_001300754.1](#)

RefSeq Size: 2604 bp

RefSeq ORF: 1443 bp

Locus ID: 133308

Cytogenetics: 4q24

Protein Families: Druggable Genome, Transmembrane

MW: 51.6 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 (2) differs in the 5' UTR and lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.