

Product datasheet for **SC128249**

NHEDC2 (SLC9B2) (NM_178833) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NHEDC2 (SLC9B2) (NM_178833) Human Untagged Clone
Tag:	Tag Free
Symbol:	NHEDC2
Synonyms:	NHA2; NHE10; NHEDC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_178833 edited
 GAAGATGCGCGAATCGGGAACCCAGAGCGCGTGGCTAGACCGGGCTCCGCCGCTCCC
 CCACAGCCCTTTCTAATCGTTCAGACGGAGCCTGGTCGACTTCGCCGGAGACTGCCAG
 ATCTCGTTCCTCTCCCTGTGCATCTTCTAATTATAAATAATGGGGATGAAGATAAA
 AGAATTACATATGAAGATTCAGAACCATCCACAGGAATGAATTACACGCCCTCCATGCAT
 CAAGAAGCACAGGAGGAGACAGTTATGAAGCTCAAAGGTATAGATGCAAATGAACCAACA
 GAAGGAAGTATTCTTTGAAAAGCAGTAAAAAAGCTACAAGAAACACCAACTGAAGCA
 AATCACGTACAAAGACTGAGACAAATGCTGGCTTGCCCTCCACATGGTTTACTGGACAGG
 GTCATAACAAATGTTACCATCATTGTTCTTCTGTGGGCTGTAGTTTGGTCAATTACTGGC
 AGTGAATGTCTTCTGGAGGAAACCTATTTGGAATTATAATCCTATTCTATTGTGCCATC
 ATTGGTGGTAACTTTTGGGGCTTATTAAGTTACCTACATTGCCTCCACTGCCTTCTCTT
 CTTGGCATGCTGCTTGCAGGGTTTCTCATCAGAAATATCCCAGTCATCAACGATAATGTG
 CAGATCAAGCACAAAGTGGTCTTCTCTTTGAGAAGCATAGCCCTGTCTATCATTCTGGTT
 CGTGCTGGCCTTGGTCTGGATCAAAGGCCCTGAAGAAGTTAAAGGGCGTTTGTGAAGA
 CTGTCCATGGGTCCCTGTATTGTGGAGGCGTGCACATCTGCTCTTCTTGGCCATTACCTG
 CTGGGTTTACCATGGCAATGGGGATTTACTGGGTTTTGTTTTAGGTGCTGTATCTCCA
 GCTGTTGTGGTGCCTTCAATGCTCCTTTTGCAGGGAGGAGGCTATGGTGTGAGAAGGGT
 GTCCCAACCTTGCTCATGGCAGCTGGCAGCTTCGATGACATTCTGGCCATCACTGGCTTC
 AACACATGCTTGGGCATAGCCTTTTCCACAGGCTCTACTGTCTTTAATGCCTCAGAGGA
 GTTTTGGAGGTGGTAATTGGTGTGGCAACTGGATCTGTTCTTGGATTTTTATTTCAGTAC
 TTTCCAAGCCGTGACCAGGACAACTTGTGTGAAGAGAACATTCCTTGTGTGGGGTTG
 TCTGTGTAGCTGTGTTCCAGCAGTGTGCATTTTGGTTTCCCTGGATCAGGAGGACTGTGC
 ACGTTGGTCATGGCTTTCCTTGCAGGCATGGGATGGACCAGGAAAAGGCAGAGGTTGAA
 AAGATAATTGCAGTTGCCTGGGACATTTTTTCAGCCCTTCTTTTTGGACTAATTGAGCA
 GAGGTATCTATTGCATCTCTCAGACCAGAACTGTAGGCCTTTGTGTTGCCACCGTAGGC
 ATTGCAGTATTGATACGAATTTTACTACATTTCTGATGGTGTGTTTGTGTTTAAAC
 TTAAGAAAAGATATTTATTTCTTTTGCATGGCTTCCAAAGGCCACAGTTCAGGCTGCA
 ATAGGATCTGTGGCTTTGGACACAGCAAGGTCACATGGAGAGAAACAATTAGARGACTAT
 GGAATGGATGTGTTGACAGTGGCATTTTTGTCCATCCTCATCACAGCCCCAATTGGAAGT
 CTGCTTATTGGTTTACTGGGCCAGGCTTCTGCAGAAAGTTGAACATCAAATAAAGAT
 GAAGAAGTTCAAGGAGAGACTTCTGTGCAAGTTTAGAGGAAGCGGGATTCTATTACTGG
 AAATTTGGGACTGAAAGGCCAAAGCTTCTGGGCCACCATCAACGCAGCTCCGCTTTCA
 TTTCTTTACATACAACCTTTCCACATAAGATTTTATGCGGAAAAAAAAAAAAAAAAAACT
 ACAAAGGTTTTTACTGAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_178833 unedited
 AGGTCGGATTTGTATACGACTCATATAGCGCGCCGATAACTTCGTATAGCATAATTAT
 ACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGAAGATGC
 GCGAATCGGGAACCCAGAGCGCGTGGCTAGACCGGGCTCCGCCGCTCCCCACAGCC
 CCTTCTAATCGTTCAGACGGAGCCTGGTCGACTTCGCCGGAGACTGCCAGATCTCGTT
 CCTCTTCCCTGTGCATCTTCTAATTATAAATAATGGGGATGAAGATAAAGAATTAC
 ATATGAAGATTCAGAACCATCCACAGGAATGAATTACACGCCCTCCATGCATCAAGAAGC
 ACAGGAGGAGACAGTTATGAAGCTCAAAGGTATAGATGCAAATGAACCAACAGAAGGAAG
 TATTCTTTGAAAAGCAGTAAAAAAGCTACAAGAAACACCAACTGAAGCAAATCACGT
 ACAAAGACTGAGACAAATGCTGGCTTGCCCTCCACATGGTTTACTGGACAGGGTCATAAC
 AAATGTTACCATATTGTTCTTCTGTGGCTGTAGTTTGGTCAATTACTGGCAGTGAATG
 TCTTCTGGAGGAAACCTATTTGGAATTATAATCCTATTCTATTGTGCCATCATTGGTGG
 TAACTTTTGGGGCTTATTAAGTTACCTACATTGCCTCCACTGCCTTCTCTTCTTGGCAT
 GCTGCTTGCAGGGTTTCTCATCAGAAATATCCCAGTCATCAACGATNATGTGCAGATCAA
 GCACAAGTGGTCTTCTCTTTGAGAAGCATAGCCCTGTCTATCATTCTGGNTCGTGTGG
 CCCTGGTCTGGNATCAAAGGCCCTGNAGAAAGTAAAGGGGCGTTGTGTAAGACTGTCCA
 TGGTCCCNCTGTATG

Restriction Sites:	Please inquire
ACCN:	NM_178833
Insert Size:	2000 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:	<ol style="list-style-type: none">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_178833.3</u> , <u>NP_849155.2</u>
RefSeq Size:	2447 bp
RefSeq ORF:	1614 bp
Locus ID:	133308
UniProt ID:	<u>Q86UD5</u>
Cytogenetics:	4q24
Protein Families:	Druggable Genome, Transmembrane
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 (1) represents the longest transcript and encodes the longest isoform (1).