

Product datasheet for **RC207992**

NHEDC2 (SLC9B2) (NM_178833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NHEDC2
Synonyms:	NHA2; NHE10; NHEDC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC207992 representing NM_178833
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGGATGAAGATAAAGAATTACATATGAAGATTCAGAACCATCCACAGGAATGAATTACACGCCCT
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 AGGAAGTATTCTTTGAAAAGCAGTGAAAAAAGCTACAAGAAACACCAACTGAAGCAAAATCACGTACAA
 AGACTGAGACAAATGCTGGCTTGCCCTCCACATGGTTACTGGACAGGGTCATAACAAATGTTACCATCA
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 TCCAAGCCGTGACCAGGACAACTTGTGTGAAGAGAATTCCTTGTGTGGGTTGTCTGTGCTAGCT
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 TTGACAGTGGCATTTTTGTCCATCCTCATCACAGCCCAATTGGAAGTCTGCTTATTGGTTTACTGGGCC
 CCAGGCTTCTGCAGAAAGTTGAACATCAAATAAAGATGAAGAAGTTCAAGGAGAGACTTCTGTGCAAGT
 T

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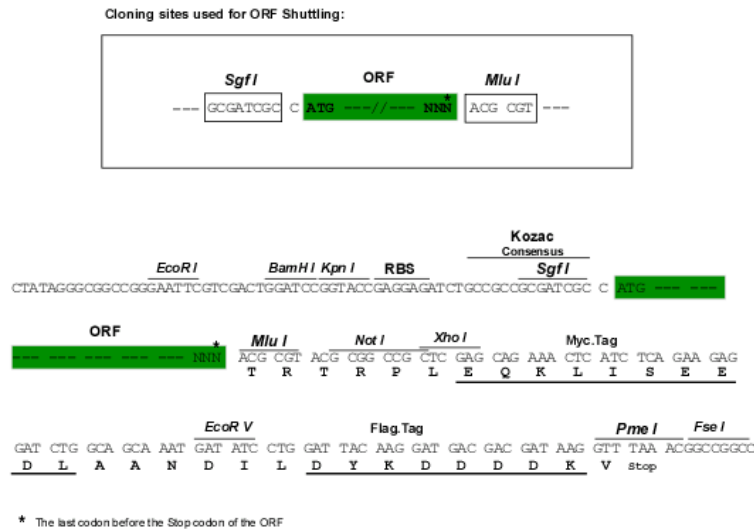
Protein Sequence: >RC207992 representing NM_178833
 Red=Cloning site Green=Tags(s)

MGDEDKRITYEDSEPSTGMNYTPSMHQEAQEETVMKLKIDANEPTSGSILLKSSEKKLQETPTEANHVQ
 RLRLQMLACPPHGLLDREVITNTIIVLLWAVVWSITGSECLPGGNLFGIIILFYCAIIGGKLLGLIKLPTL
 PPLPSLLGMLLAGFLIRNIPVINDNVQIKHKWSSSLRSIALSIILVRAGLGLDSKALKKLGVCVRLSMG
 PCIVEACTSALLAHYLLGLPWQWGFILGFVLGAVSPAVVPSMMLLQGGYGVEKGVPTLLMAAGSFDDI
 LAITGFNTCLGIAFSTGSTVFNVLRGVLEVVGIVATGSVLGFFIQYFSPRDQDKLVCKRTFLVLGLSVLA
 VFSSVHFPGSGGLCTLVMAFLAGMGWTSEKAEVEKIIAIAWDIFQPLLFLGIAEVSIASLRPETVGL
 CVATVGIAVLIRILTTFLMVCFAFNLKEKIFISFAWLPKATVQAAIGSVALDARSHGEKQLEDYGMVD
 LTVAFSLILITAPIGSLLIGLLGPRLLQKVEHQNKDEEVQGETSVQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178833

ORF Size: 1611 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.

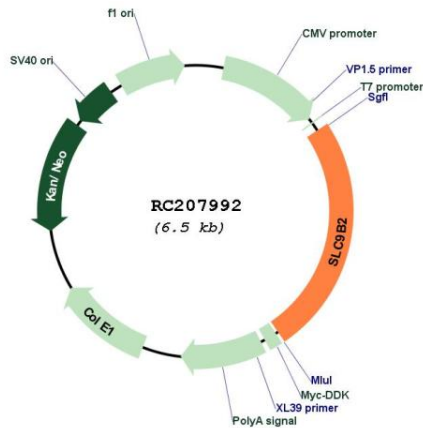
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_178833.7](#)

RefSeq Size:	3377 bp
RefSeq ORF:	1614 bp
Locus ID:	133308
UniProt ID:	Q86UD5
Cytogenetics:	4q24
Protein Families:	Druggable Genome, Transmembrane
MW:	57.6 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]

Product images:



Circular map for RC207992