

Product datasheet for **RC225496**

SLC9A3R2 (NM_001130012) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC9A3R2 (NM_001130012) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC9A3R2
Synonyms:	E3KARP; NHE3RF2; NHERF-2; NHERF2; OCTS2; SIP-1; SIP1; TKA-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225496 representing NM_001130012 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGCCGGAGCCGCTGCGGCCGCGCCTGTGCCGTTGGTGC GCGGAGAGCAGGGCTACGGCTTCC
ACCTGCACGGCGAGAAGGGCCGCGGGCAGTTCATCCGGCGCGTGGAACCCGGTCCCCCGCGAGGC
CGCCGCGCTGCGCGCTGGGACCGCCTGGTCGAGGTCAACGGCGTCAACGTGGAGGGCGAGACGCCACC
CAGGTGGTCAAAGGATCAAGGCTGTGGAGGGCAGACTCGGCTGCTGGTGGACCAGGAGACAGATG
AGGAGCTCCGCCGCGGAGCTGACCTGTACCGAGGAGATGGCCAGCGAGGGCTCCACCCGCCACGA
CCCTGGGAGCCGAAGCCAGACTGGGCACACCGGCAGCCACAGCTCCGAAGCTGGCAAGAAGGATGTC
AGTGGGCCCTGAGGGAGCTGCGCCCTCGGCTCTGCCACCTGCGAAAGGGACCTCAGGGCTATGGTTCA
ACCTGCATAGTGACAAGTCCCGGCCCGCCAGTACATCCGCTCTGTGGACCCGGGCTCACCTGCCGCCG
CTCTGGCTCCGCGCCAGGACCGGCTCATTGAGGTGAACGGGCAGAATGTGGAGGGACTGCGCCATGCT
GAGGTGGTGGCCAGCATCAAGGCACGGGAGGACGAGGCCCGGCTGCTGGTGGTGGACCCGAGACAGATG
AACACTCAAGCGGCTTCGGGTCAACCCACCGAGGAGCAGTGGAAAGTCTCTGCCGTACCCGTAC
CAATGGAACAGCCCTGCCAGCTCAATGGTGGCTCTGCGTCTCGTCCGAAGTGACCTGCCTGGTTCC
GACAAGGACTGAGGATGGCAGTGCCTGGAAGCAAGATCCCTCCAGGAGAGCGGCTCCACCTGAGCC
CCACGGCCGCGAGGCCAAGGAGAAGGCTCGAGCCATGCCAGTCAACAAGCGCCGCCACAGATGGACTG
GAACAGGAAGCGTGAATCTTCAGCAACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225496 representing NM_001130012
 Red=Cloning site Green=Tags(s)

MAAPEPLRPRLCRLVRGEQGYGFHLHGEKGRRGQFIRRVEPGSPAEEAALRAGDRLVEVNGVNVEGETHH
 QVVQRIKAVEGQTRLLVVDQETDEELRRRQLTCTEEMAQRGLPPAHDWPWPKPDWAHTGSHSSEAGKKDV
 SGPLRELRPRLCHLRKGPQGYGNLHSDKSRPGQYIRSVDPGSPAARSGLRAQDRLIEVNGQNVEGLRHA
 EVVASIKAREDEARLLVVDPETDEHFKRLRVTPTEEHVEGPLPSPVTNGTSPAQLNGGSACSSRSDLPGS
 DKDTEGSAWKQDPFQESGLHLSPTAAEAKEKARAMRVNKRAPQMDWNRKREIFSNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1479_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001130012

ORF Size: 1011 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_001130012.3](#)

RefSeq ORF: 1014 bp

Locus ID: 9351

UniProt ID: [Q15599](#)

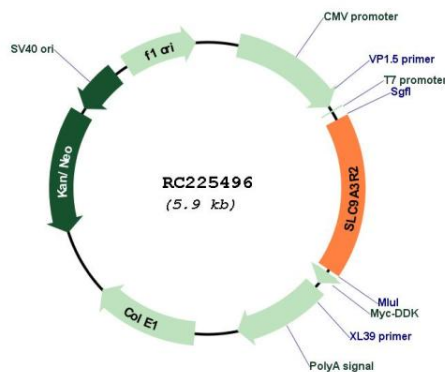
Cytogenetics: 16p13.3

Protein Families: Druggable Genome

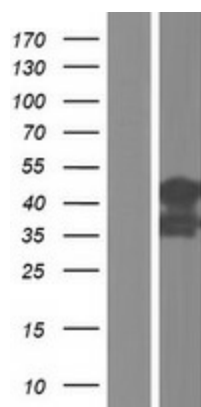
MW: 37.2 kDa

Gene Summary: This gene encodes a member of the NHERF family of PDZ scaffolding proteins. These proteins mediate many cellular processes by binding to and regulating the membrane expression and protein-protein interactions of membrane receptors and transport proteins. The encoded protein plays a role in intestinal sodium absorption by regulating the activity of the sodium/hydrogen exchanger 3, and may also regulate the cystic fibrosis transmembrane regulator (CFTR) ion channel. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC225496



Western blot validation of overexpression lysate (Cat# [LY427102]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225496 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).