

Product datasheet for **RC234440**

ACCN2 (ASIC1) (NM_001256830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN2 (ASIC1) (NM_001256830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACCN2
Synonyms:	ACCN2; ASIC; BNaC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234440 representing NM_001256830
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCATCCAGATCTTCTGCTCCATGTATTCTCTCTGGAGAGGAAGCCCAGGGCCCTTGGGAGATA
 TTTGGGTCCCCACCACCATCAGCAGCAGCAGGACATCTCAGAATCGGAAGAGGAGGAAGAAGAGAAGGA
 AAAGGAGCAGTGAGGAAGGAGGCCAGTGAGGGCATTACCCATGGACTTGGTGGCCTTTGCCAACAGC
 TGCACCCTCCATGGACCAACCACATTTTTGTGGAGGGGGTCCAGGGCCAAGGCAGGTGCTGTGGCGG
 TGGCCTTTGCTGCTGGACTGGTGCCTTCTGTGCCAGTAGGGGACCGCTTGTATTACCTCAGCTA
 CCCACACGTGACCCTTCTAAACGAAGTGGCCACCACGGAGCTGGCCTTCCCGCAGTCACCTCTGCAAC
 ACTAATGTGTGCGGCTGTCCAGCTCAGTACCCTGACTTGTATTATTGGCCCCATGCTGGGACTGG
 ATGAAAGTGATGACCCCGGGTGCCTCGCTCCACCGGGCCCTGAGGCCTTCTCTGGGAGCCCTTAA
 CCTGCACCGCTTCTACAATCGCTCCTGCCACCGCTGGAGACATGCTGCTCTATTGCTCCTACCAAGGG
 GGACCCTGCGGCCCTCACAATCTCAGTGGTCTTACACGCTATGGAAAGTGCTACACGTTCAACTCGG
 GCCGAGATGGGGCGCGGGCTGAAGACCATGAAGGGTGGGACGGGAATGGGCTGGAAATCATGCTGGA
 CATCCAGCAGGACGAGTACCTGCCTGTGTGGGGGAGACTGACGAGACGCTCTTCAAGCAGGCATCAA
 GTGCAGATCCATAGTCAGGATGAACCTCCTTTCATCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTC
 AGACCTTTGTGGCTGCCAGGAGCAGCGCTCATCTACCTGCCCCACCTGGGGCACCTGCAAAGCTGT
 TACCATGGACTCGGATTTGGATTTCTTCGACTCCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACG
 CGCTACCTGGTGGAGAAGTCAACTGCCGCATGGTGCACATGCCAGGGGATGCCCCACTGTACTCCAG
 AGCAGTACAAGGAGTGTGCAGATCCTGCTCTGGACTTCTGGTGGAGAAGGACCAGGACTCGGTGTG
 TGAATGCCTTGCAACCTGACCCGCTATGGCAAAGAGCTGTCCATGGTCAAGATCCCCAGCAAAGCCTCA
 GCCAAGTACCTGGCCAAGAAGTTCAACAAATCTGAGCAATACATAGGGGAGAACATCCTGCTGCTGGACA
 TTTTCTTTGAAGTCTCAACTATGAGACCATTGAACAGAAGAAGGCCTATGAGATTGCAGGGCTCCTGGG
 TGACATCGGGGCCAGATGGGGCTGTTTCATCGGGGCCAGCATCCTCACGGTGTGGAGCTTTTGACTAC
 GCCTACGAGGTCATTAAGCACAAGCTGTGCCGACGAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTG
 CGGACAAGGGCTGGCCCTCAGCCTGGACGACGTCAAAGACACAACCCGTGCGAGACCTTCGGGGCCA
 CCCTGCCGGGATGACATACGCTGCCAACATCCTACCTACCATCCGGCCCGAGGCAGTTTCGAGGACTTT
 ACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234440 representing NM_001256830
 Red=Cloning site Green=Tags(s)

MPIQIFCSMSFSSGEEAPGLGDIWGPHHHQQQDISESEEEEEKEKEAVRKEASEGHSPMDLVAFANS
 CTLHGTNHFVEGGPGRQVLWAVAFVLALGAFLCQVGDRAVYYLSYPHTLLNEVATTELAFPVTLN
 TNAVRLSQLSYDLLYLAPMLGLDESDDPGVPLAPPPEAFSGEPFNLHRYFNRSCHRLEDMLLYCSYQG
 GPCGPHNFSVVFTRYGKCYTFNSGRDGRPRLKTMKGGTGNGLEIMLDIQQDEYLPVWGETDETSFEAGIK
 VQIHSQDEPPFIDQLFGVAPGFQTFVACQEQLIYLPWPWTCKAVTMSDLDFDYSYSITACRIDCET
 RYLVENCNRMVHMPGDAPYCTPEQYKECADPALDFLVEKDQYCVCEMPCNLTRYGKELSMVKIPSKAS
 AKYLAKKFNKSEYIIGENILVLDIFFEVLNYETIEQKKAYEIAGLLDIGGQMLFIGASILTVLELFDY
 AYEVIKHKLCRRGKCQKEAKRSSADKGVALLDDYKRNHPCESLRGHPAGMTYAANILPHHPARGTFEDF
 TC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001256830

ORF Size: 1686 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_001256830.1](#), [NP_001243759.1](#)

RefSeq Size: 3679 bp

RefSeq ORF: 1689 bp

Locus ID: 41

UniProt ID: [P78348](#)

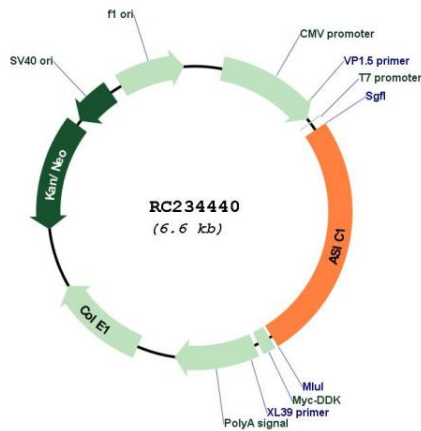
Cytogenetics: 12q13.12

Protein Families: Druggable Genome, Ion Channels: Other

MW: 63.2 kDa

Gene Summary: This gene encodes a member of the acid-sensing ion channel (ASIC) family of proteins, which are part of the degenerin/epithelial sodium channel (DEG/ENaC) superfamily. Members of the ASIC family are sensitive to amiloride and function in neurotransmission. The encoded proteins function in learning, pain transduction, touch sensation, and development of memory and fear. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC234440