

Product datasheet for **RC214490**

ACCN2 (ASIC1) (NM_020039) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN2 (ASIC1) (NM_020039) 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:

>RC214490 representing NM_020039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGTGAAGGCCGAGGAGGAGGAGGTGGTGGCGTCCAGCCGGTGAAGCATCCAGGCCTTCGCCAGCA
 GCTCCACACTGCACGGCCTGGCCACATCTTCTCTACGAGCGGCTGTCTCTGAAGCGGGCACTGTGGC
 CCTGTGCTTCTGGGCTCGCTGGCTGTGCTGTGTGTGTGCACGGAGCGTGTGCACTACTTCCAC
 TACCACATGTCACCAAGCTCGACGAGGTGGTGCCTCTCAGCTTACCTCCCTGCTGTACGCTGTGCA
 ACCTCAACGAGTTCGGCTTAGCCAAAGTCTCCAAGAATGACCTGTATCATGCTGGGGAGCTGTGGCCCT
 GCTCAACAACAGGTATGAGATACCAGACACACAGATGGCAGATGAAAAGCAGCTGGAGATACTGCAGGAC
 AAAGCCAACCTCCGACGCTTCAAACCCAAACCCTCAACATGCGTGAGTCTACGACCGAGCTGGGCACG
 ACATTCGAGACATGCTGCTCTCCTGCCACTTCCGGGGGGAGGTCTGCAGCGCTGAAGACTCAAGGTGGT
 CTTACACGCTATGGAAGTGTACACGTTCAACTCGGGCCGAGATGGGGCGCCGGCTGAAGACCATG
 AAGGGTGGGACGGCAATGGGCTGGAAATCATGCTGGACATCCAGCAGGACGAGTACCTGCCTGTGTGGG
 GGGAGACTGACGAGACGCTCCTTCGAAGCAGGCATCAAAGTGCAGATCCATAGTCAGGATGAACCTCCTTT
 CATCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTCCAGACCTTTGTGGCCTGCCAGGAGCAGCGGCTC
 ATCTACCTGCCCCACCCTGGGGCACCTGCAAAGCTGTTACCATGGACTCGGATTTGGATTTCTTCGACT
 CCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACGCGCTACCTGGTGGAGAAGTCAACTGCCGCAT
 GGTGCACATGCCAGGGATGCCCATACTGTACTCCAGAGCAGTACAAGGAGTGTGCAGATCCTGCTCTG
 GACTTCTGGTGGAGAAGGACCAGGAGTACTGCGTGTGAAATGCCTTGCAACCTGACCCGCTATGGCA
 AAGAGTGTCCATGGTCAAGATCCCCAGCAAAGCCTCAGCCAAAGTACCTGGCCAAGAAGTCAACAAATC
 TGAGCAATACATAGGGGAGAACATCCTGGTGTGGACATTTCTTTGAAGTCTCAACTATGAGACCATT
 GAACAGAAGAAGCCTATGAGATTGCAGGGCTCCTGGGTGAGCTGCTGATGACACCTGTCCCTTCTCAT
 GCCATGGGCATGGCGTGGCTCCCTATCATCCAAAAGCAGGGTGTCACTTCTGTCCCATGAGGGTCTCC
 ACCCCAGAGGCCCTTCCCAAACCTGTTGTCTTGGTGCATCGGGGGCCAGATGGGGCTGTTATCGGG
 GCCAGCATCCTCACGGTGTGGAGCTCTTTGACTACGCCACGAGGTCAATTAAGCACAAGCTGTGCCGAC
 GAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTGGGACAAGGGCGTGGCCCTCAGCCTGGACGACGT
 CAAAAGACACAACCCGTGCGAGAGCCTTCGGGGCCACCCTGCCGGATGACATACGCTGCCAACATCCTA
 CCTCACCATCCGGCCGAGGCACGTTTCAGGACTTTACCTGC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214490 representing NM_020039
 Red=Cloning site Green=Tags(s)

MELKAEVEEVGGVQPVSIQAFASSTLHGLAHIFSYERLSLKRALWALCFLGSLAVLLCVCTERVQYFFH
 YHHVTKLDEVAASQLTFPAVTLNLFNFRFSQVSKNDLYHAGELLALLNRYEIPDTQMADEKQLEILQD
 KANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFRGEVCSAEDFKVVFTRYGKCYTFNSGRDGRPRLKTM
 KGGTGNLEIMLDIQDEYLPVWGETDETSFEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFVACQEQL
 IYLPWPWTCKAVTMSDLDFDYSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPAL
 DFLVEKDQEQYCVCEMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETI
 EQKKAYEIAAGLLGELLMTPVPFSGHGHVAPYHPKAGCSLLSHEGPPQRPFPKPCCLDGGQMGFLFIG
 ASILTVLELFDYAYEVIKHKLCRRGKCQKEAKRSSADKGVALLSDDVVKRHNPCESLRGHPAGMTYAANIL
 PHHPARGTFEDFTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_020039

ORF Size: 1722 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

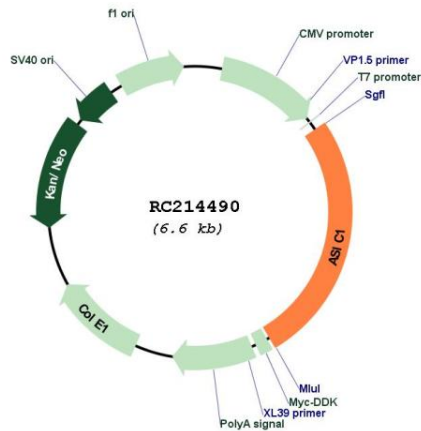
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_020039.3, NP_064423.2](#)
RefSeq Size: 4011 bp
RefSeq ORF: 1725 bp
Locus ID: 41
UniProt ID: [P78348](#)
Cytogenetics: 12q13.12
Domains: ASC
Protein Families: Druggable Genome, Ion Channels: Other
MW: 64.8 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 RC214490