

Product datasheet for **RG214490**

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:	TurboGFP
Symbol:	ACCN2
Synonyms:	ACCN2; ASIC; BNaC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG214490 representing NM_020039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGTGAAGGCCGAGGAGGAGGTGGTGGCGTCCAGCCGGTGAAGCATCCAGGCCTTCGCCAGCA
 GCTCCACACTGCACGGCCTGGCCACATCTTCTCTACGAGCGGCTGTCTCTGAAGCGGGCACTGTGGG
 CCTGTGCTTCTGGGCTCGCTGGCTGTGCTGTGTGTGTGCACGGAGCGTGTGCACTACTTCCAC
 TACCACCATGTCACCAAGCTCGACGAGGTGGTGCCTCTCAGCTTACCTCCCTGCTGTACGCTGTGCA
 ACCTCAACGAGTTCGGCTTAGCCAAAGTCTCCAAGAATGACCTGTATCATGCTGGGGAGCTGCTGGCCCT
 GCTCAACAACAGGTATGAGATACCAGACACACAGATGGCAGATGAAAAGCAGCTGGAGATACTGCAGGAC
 AAAGCCAACTCCGCAGCTTCAAACCCAAACCCTCAACATGCGTGAGTCTACGACCGAGCTGGGCACG
 ACATTCGAGACATGCTGCTCTCCTGCCACTTCCGGGGGAGGTCTGCAGCGCTGAAGACTCAAGGTGGT
 CTTACACGCTATGGAAGTGTACACGTTCAACTCGGGCCGAGATGGGGCGCCGGCTGAAGACCATG
 AAGGGTGGGACGGCAATGGGCTGGAAATCATGCTGGACATCCAGCAGGACGAGTACCTGCCTGTGTGGG
 GGGAGACTGACGAGACGCTCCTTCGAAGCAGGCATCAAAGTGCAGATCCATAGTCAGGATGAACCTCCTTT
 CATCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTCCAGACCTTTGTGGCCTGCCAGGAGCAGCGGCTC
 ATCTACCTGCCCCACCCTGGGGCACCTGCAAAGCTGTTACCATGGACTCGGATTTGGATTTCTTCGACT
 CCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACGCGCTACCTGGTGGAGAAGTGAAGTGGCCGAT
 GGTGCACATGCCAGGGATGCCCATACTGTACTCCAGAGCAGTACAAGGAGTGTGCAGATCCTGCTCTG
 GACTTCTGGTGGAGAAGGACCAGGACTACTGCGTGTGTGAAATGCCTTGCAACCTGACCCGCTATGGCA
 AAGAGTGTCCATGGTCAAGATCCCCAGCAAGCCTCAGCCAAGTACCTGGCCAAGAAGTCAACAAATC
 TGAGCAATACATAGGGGAGAACATCCTGGTGTGACATTTTCTTTGAAGTCTCAACTATGAGACCATT
 GAACAGAAGAAGCCTATGAGATTGCAGGGCTCCTGGGTGAGCTGCTGATGACACCTGTCCCTTCTCAT
 GCCATGGGCATGGCGTGGCTCCCTATCATCCAAAAGCAGGGTGTCACTTCTGTCCCATGAGGGTCTCC
 ACCCCAGAGGCCCTTCCCAAACCCTGTTGTCTTGGTGCATCGGGGGCCAGATGGGGCTGTTTCATCGGG
 GCCAGCATCCTCACGGTGTGGAGCTCTTTGACTACGCCACGAGGTCATTAAGCACAAGCTGTGCCGAC
 GAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTGGGACAAGGGCGTGGCCCTCAGCCTGGACGACGT
 CAAAAGACACAACCCGTGCGAGAGCCTTCGGGGCCACCCTGCCGGATGACATACGCTGCCAACATCCTA
 CCTCACCATCCGGCCGAGGCACGTTTCAGGACTTTACCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214490 representing NM_020039
 Red=Cloning site Green=Tags(s)

MELKAEVEEVGGVQPVSIQAFASSTLHGLAHIFSYERLSLKRALWALCFLGSLAVLLCVCTERVQYFFH
 YHHVTKLDEVAASQLTFPAVTLNLFNFRFSQVSKNDLYHAGELLALLNRYEIPDTQMADEKQLEILQD
 KANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFRGEVCSAEDFKVVFTRYGKCYTFNSGRDGRPRPKTM
 KGGTGNLEIMLDIQQDEYLPVWGETDETSFEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFVACQEQR
 IYLPWPWGTCVAVTMSDLDFDYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPAL
 DFLVEKDQYCVCEMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETI
 EQKKAYEIAGLLGELLMTPVVPFSCHGHGVAPYHPKAGCSLLSHEGPPQRPFPKPCCLDGGQMGFLFIG
 ASILTVLELFDYAYEVIKHKLRRGKCQKEAKRSSADKGVALLDDVVRHNPCESLRGHPAGMTYAANIL
 PHHPARGTFEDFTC

TRTRPLE – GFP Tag – V

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](#)

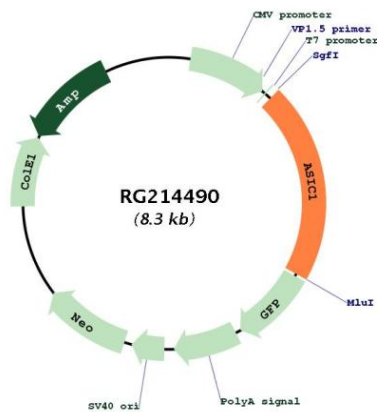
Cytogenetics: 12q13.12

Domains: ASC

Protein Families: Druggable Genome, Ion Channels: Other

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 RG214490