

Product datasheet for **SC108885**

ACCN2 (ASIC1) (NM_001095) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN2 (ASIC1) (NM_001095) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACCN2
Synonyms:	ACCN2; ASIC; BNaC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001095, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGTGAAGGCCGAGGAGGAGGAGGTGGTGGCGTCCAGCCGGTGAAGCATCCAGGCCTTCGCCAGCA
GCTCCACACTGCACGGCCTGGCCACATCTTCTCCTACGAGCGGTGTCTCTGAAGCGGCACTGTGGGC
CCTGTGCTTCTGGGCTCGCTGGCTGTGCTGTGTGTGTGCACGGAGCGTGTGCAGTACTACTTCCAC
TACCACCATGTACCAAGCTCGACGAGGTGGCTGCCTCTCAGCTTACCTCCCTGCTGTACAGCTGTGCA
ACCTCAACGAGTTCGGCTTTAGCCAAGTCTCCAAGAATGACCTGTATCATGCTGGGGAGCTGCTGGCCCT
GCTCAACAACAGGTATGAGATACCAGACACACAGATGGCAGATGAAAAGCAGCTGGAGATACTGCAGGAC
AAAGCCAACTTCCGCAGCTTCAAACCCAAACCCTTCAACATGCGTGAGTTCTACGACCGAGCTGGGCAG
ACATTCGAGACATGCTGCTCTCTGCCACTTCCGGGGGAGGTCTGCAGCGCTGAAGACTTCAAGGTGGT
CTTCACACGCTATGAAAAGTGTACACGTTCAACTCGGGCCGAGATGGGCGCCGCGGCTGAAGACCATG
AAGGGTGGGACGGCAATGGGCTGGAAATCATGCTGGACATCCAGCAGGACGAGTACCTGCCTGTGTGGG
GGGAGACTGACGAGACGCTCTTGAAGCAGGCATCAAAGTGCAGATCCATAGTCAGGATGAACCTCCTTT
CATCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTCCAGACCTTTGTGGCTGCCAGGAGCAGCGGCTC
ATCTACCTGCCCCACCCTGGGGCACCTGCAAAGCTGTTACCATGGACTCGGATTTGGATTTCTTCGACT
CCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACGCGCTACCTGGTGGAGAAGTCAACTGCCGCAT
GGTGCACATGCCAGGGGATGCCCATACTGTACTCCAGAGCAGTACAAGGAGTGTGCAGATCCTGCTCTG
GACTTCTGGTGGAGAAGGACCAGGAGTACTGCGTGTGTGAAATGCCTTGCAACCTGACCCGCTATGGCA
AAGAGCTGTCCATGGTCAAGATCCCCAGCAAAGCCTCAGCCAAGTACCTGGCCAAGAAGTTCAACAAATC
TGAGCAATACATAGGGGAGAACATCCTGGTGTGGACATTTTCTTTGAAGTCTCAACTATGAGACCATT
GAACAGAAGAAGCCCTATGAGATTGACAGGGCTCCTGGGTGACATCGGGGGCCAGATGGGGCTGTTTCATCG
GGGCCAGCATCCTCACGGTGTGGAGCTTTTGAAGTACGCTACGAGGTACATTAAGCACAAAGCTGTGCCG
ACGAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTGCAGGACAAGGGCTGGCCCTCAGCCTGGACGAC
GTCAAAAGACACAACCCGTGCGAGAGCCTTCGGGGCCACCCTGCCGGATGACATACGCTGCCAACATCC
TACCTCACCATCCGGCCCGAGGCAGGCTTCGAGGACTTTACCTGCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001095 unedited

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NGTTTTGCCATTTTGTAAATACGATCTCACTATAGGGCGGCCGGAATTCGCACGAGGCGC
AGACACTCGTAGGCGCGCACGCGCACCCCTCTCCCTCCCCCTCCCCTCCCGCCGCTCCC
GGCCGGACGATGGATCCCTGCAGATCCCAGGGCTGAGAGCACCGCGCACCCGCGCGGAGCC
CGGGCAGACCGAGCCGAGGCGAGCGAGCCAGCGAGCCAGCGCGCGCGGGCGGGCGGACAG
ATCGGAGCCGAGCGGGCCGGCGGGCGGCTCCCTGCAGGGCTCTGCGCGGCTGCGCCG
GGCGCCGCGGGCTCCGGCCCCGGGCCATGAGCCCTCCGCGACTCGGCGCTGAGCCCGCC
ACCGTCCAGCGCCCCAGGACCCGCCCGGCTGCCGGTTGCCGAAGCCCTCAGGAT
CCCTCAACAAGGATGGAAGTGAAGGCCGAGGAGGAGGAGGTGGTGGCTCCAGCCGCT
GAGCATCCAGGCTTCGCCAGCAGCTCCACACTGCACGGCTGGCCACATCTTCTCCTA
CGAGCGGCTGTCTCTGAAGCGGGCACTGTGGCCCTGTGCTTCTGGGCTCGCTGGCTGT
GCTGCTGTGTGTGCACGGAGCGTGTGCAGTACTACTTTCACTACCACCATGTCAACCA
AGCTCGACGAGGTGGCTGCCTCTCAGCTTACCTTCCCTGCTGTACGCTGTGCAACCTCA
ACGAGTCCGCTTTAGCCAAGTCTTCCAAGATGACCTGTATTATGCTGGGAGCTGCTGG
CCCTGCTCAACACCGTTTGGAGATACCCGACCCACGNATGGCAGATTGAAAGCAGTTGGA
GATACTGCAAGACAAAGGCCACTTTCGACGCTTCAAACCCAAACCCTAACATGCGTGGG
TTCTAG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001095 unedited NATCTCTGNACCCGCGGCCGAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTGGGTGAAACCACTTTATTAACCAAAGGCATGCGTCACCCAAAACC CTGCCTGCTGTTCCCTATCCAATGCACACTTTTGGCCCCATTCTGCTCCCTCTGGG GAGGGATGAACTCTGAGGAACTCTTAAAGAACCAAAAATTCCAAAGATCCTACAGCCTT ACTCTCCAACCTCAGGCCAATGCAGCTGCTCACAGGGCCTGTTCTGGGATTGAAAACCA AACACAGCTAGGAAAGAAGGCCTGAAAAGGGGTTGGGGCTCAAGCCTGGAAGAATGTC TGGTGAAGGAAAGGGGGCAAGCCCTCCACCTCACTTGGCTCTATTAAAGATAGGGGA GACAACAGCAGAGCTTTCAACTCCTCTAAGCCTCTTTCTCCCAAACCCACCTCA CCAAAAAATAAAAGTGGGGGGCTTGGGTATCAAGTGAGGAAAGGGGGCTGGGCACCCACA AAGAGGAAAGGCCACTGACTGAGGACCTCAGCTTCTGCCTGTCAGCATCCCACTGGCCCA ACTTCAGGAGTCGCCAATCCCCAGCTCCCTTGTGCTCTGACACACTGGCTTAATGGCC AGGGGAGACCTCCATCCCTGGGGGGGGGCTATCTCTACAGGAACCCCTTCCCTGGGGA TGCCACTGGCAACTGGGCAGAGGCAATGGGATANGGAGGAGCAGGGGAGAAAATGTTTA AGCTGCAGGGAAGCCCCAGGGGCCCTTTGGGGAAAAGGTAAAGCCCCAAAAAAGC AAAGTGTGATTCCAGCTTCTTTGGCCCCCTGAACCAGCAAGGTACAAGCGCCGGGC CGCCCCTTGGCTTTAGAAGGGAGGGGGCCCCACACCAA
Restriction Sites:	NotI-NotI
ACCN:	NM_001095
Insert Size:	4450 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_001095.2 , NP_001086.2
RefSeq Size:	3785 bp
RefSeq ORF:	1587 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]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a.