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Product datasheet for SC122113

ACCN2 (ASIC1) (NM_020039) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN2 (ASIC1) (NM_020039) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACCN2
Synonyms:	ACCN2; ASIC; BNaC2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_020039, the custom clone sequence may differ by one or more nucleotides

ATGGAACTGAAGGCCGAGGAGGAGGAGGTGGGTGGCGTCCAGCCGGTGAGCATCCAGGCCTTCGCCAGCA
GCTCCACACTGCACGGCCTGGCCCACATCTTCTCCTACGAGCGGCTGTCTCTGAAGCGGGCACTGTGGGC
CCTGTGCTTCCTGGGCTCGCTGGCTGTGCTGCTGTGTGTGTGCACGGAGCGTGTGCAGTACTACTTCCAC
TACCACCATGTCACCAAGCTCGACGAGGTGGCTGCCTCTCAGCTTACCTTCCCTGCTGTCACGCTGTGCA
ACCTCAACGAGTTCCGCTTTAGCCAAGTCTCCAAGAATGACCTGTATCATGCTGGGGAGCTGCTGGCCCT
GCTCAACAACAGGTATGAGATACCAGACACACAGATGGCAGATGAAAAGCAGCTGGAGATACTGCAGGAC
AAAGCCAACTTCCGCAGCTTCAAACCCAAACCCTTCAACATGCGTGAGTTCTACGACCGAGCTGGGCACG
ACATTCGAGACATGCTGCTCTCCTGCCACTTCCGGGGGGAGGTCTGCAGCGCTGAAGACTTCAAGGTGGT
CTTCACACGCTATGGAAAGTGCTACACGTTCAACTCGGGCCGAGATGGGCGGCCGCGGCTGAAGACCATG
AAGGGTGGGACGGGCAATGGGCTGGAAATCATGCTGGACATCCAGCAGGACGAGTACCTGCCTGTGTGGG
GGGAGACTGACGAGACGTCCTTCGAAGCAGGCATCAAAGTGCAGATCCATAGTCAGGATGAACCTCCTTT
CATCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTCCAGACCTTTGTGGCCTGCCAGGAGCAGCGGCTC
ATCTACCTGCCCCCACCCTGGGGCACCTGCAAAGCTGTTACCATGGACTCGGATTTGGATTTCTTCGACT
CCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACGCGCTACCTGGTGGAGAACTGCAACTGCCGCAT
GGTGCACATGCCAGGGGATGCCCCATACTGTACTCCAGAGCAGTACAAGGAGTGTGCAGATCCTGCTCTG
GACTTCCTGGTGGAGAAGGACCAGGAGTACTGCGTGTGTGAAATGCCTTGCAACCTGACCCGCTATGGCA
AAGAGCTGTCCATGGTCAAGATCCCCAGCAAAGCCTCAGCCAAGTACCTGGCCAAGAAGTTCAACAAATC
TGAGCAATACATAGGGGAGAACATCCTGGTGCTGGACATTTTCTTTGAAGTCCTCAACTATGAGACCATT
GAACAGAAGAAGGCCTATGAGATTGCAGGGCTCCTGGGTGAGCTGCTGATGACACCTGTCCCCTTCTCAT
GCCATGGGCATGGCGTGGCTCCCTATCATCCAAAAGCAGGGTGCTCACTTCTGTCCCATGAGGGTCCTCC
ACCCCAGAGGCCCTTCCCCAAACCCTGTTGTCTTGGTGACATCGGGGGCCAGATGGGGCTGTTCATCGGG
GCCAGCATCCTCACGGTGCTGGAGCTCTTTGACTACGCCTACGAGGTCATTAAGCACAAGCTGTGCCGAC
GAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTGCGGACAAGGGCGTGGCCCTCAGCCTGGACGACGT
CAAAAGACACAACCCGTGCGAGAGCCTTCGGGGCCACCCTGCCGGGATGACATACGCTGCCAACATCCTA
CCTCACCATCCGGCCCGAGGCACGTTCGAGGACTTTACCTGCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020039 unedited
AAAACCGTCCCCCGCCCGTTGNCGCTAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA
TAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGG
CCGCGAATTCGGCACGAGGCTGCAGATCCCAGGGCTGAGAGCACCGCGCACCGCGCCGAG
CCCGGGCAGACCGAGCCGAGGCGAGCGAGCCAGCGAGCCAGCGCGCGCGGGCGGGCGGAC
AGATCGGAGCCGAGCGGGGCCGGGCGGGGCGCTCCCTGCAGGGCTCTGCGCGGCGTGCCG
CGGCGGCCGCGGGCTCCGGCCCCGGGCCATGAGCCCCTCCGCGACTCGGCGCTGAGCCCG
CCACCGGTCCAGCGCCCCAGGACCCGCCGCCGGCTGCCGGCTTGCCGAAGCCCCCTCAGG
ATCCCCTCAACAAGGATGGAACTGAAGGCCGAGGAGGAGGAGGTGGGTGGCGTCCAGCCG
GTGAGCATCCAGGCCTTCGCCAGCAGCTCCACACTGCACGGCCTGGCCCACATCTTCTCC
TACGAGCGGCTGTCTCTGAAGCGGGCACTGTGGGCCCTGTGCTTCCTGGGCTCGCTGGCT
GTGCTGCTGTGTGTGTGCACGGAGCGTGTGCAGTACTACTTCCACTACCACCATGTCACC
AAGCTCGACGAGGTGGCTGCCTCTCAGCTTACCTTCCCTGCTGTCACGCTGTGCAACCTC
AACGAGTTCCGCTTTAGCCAAGTCTCCAAGAATGACCTGTATCATGCTGGGGAGCTGCTG
GCCCTGCTCACAACAGGTATGAGATACCAGACACACAGATGGCAGATGAAAACAGCTGGA
GATACTGCAGGACAAAGCCAACTTCGGCACTTCGAACCCCAACCCTTAACATGCGTGAGT
TCTACAACCGAGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020039 unedited
NGGCCTGTGTGGGCCCATTTACTATACAGGAGCAGCGTCACCCACAGCCCTGCCTGCTGT
TCCCCTATCCAATGCACACTTTTTGGCCTCATTCCTGCTTCCCTCTGGGGAGGTATGATC
TCTGAGGAAACTCTTAGGAACCAAGAGATTCCAAAGATCCTACAGCCTTACTCTCCAGCT
CCAGGCCAATGCAGCTGCTCACAGGTCCTGTTCTGGGATTGAAGACCAAGACACAGCTAG
GGAAGGAAGGCCTGAAGAGGGGTTGGGGCTCAGGCCTGGAAGGAGTGTCTGGTGGAGGGA
GGGGGGGCAGGCCCTCCACCTCACTTGTCTCTCATTAAGATAGGGTGAGACAACAGCAGA
GCTTTCAACTCCTCCTCTAGGCCTCTCTTTCCTCCCAAACCCACCTCACCAGAAAATAAA
AGTGGTGGGCTTGGGTATCAGGTGAGGAAAGGGGGCTGGGCACCCAGAAGGAGGAAAGGC
CACTGACTGAGGACCTCAGCTTCTGCCTGTCAGCATCCCACTGCCCCAACTTCAGGAGTC
GCCAATCCCCAGCTCCCTTCTGTCTCTGACACACTTGGCTTAGTGTCCAGGGTAGACCTC
CATCCCCTGAGTGGGGGCTATCTCTACAGCAACCCCTTCCCTGGGGATGCCACTGTCAGC
TGGGCAGAGGGCAATGGGATAGGAGGAGCAGGGGAAGAGAATGTTAAGGCTGCAGGAAGG
GCCGAGGGTGCCCAGGTTGGGGGAGAGGGTGAGGCCAGATAGATGCAGAGCTTGTGATTC
ACAGCTTCCTTTGTCGCCACTGAGACAGTGCATAGGTTACAATGCGCGTGTCGTCTCCTT
GTGCTTCTCAGAGGATGTGTGTACACAGTACAGACACCAGGGGAGAGAGTCCAACTCTTT
ATACAAGCGN

Restriction Sites: NotI-NotI

ACCN: NM_020039

Insert Size: 4250 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

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_020039.2, NP_064423.2

RefSeq Size: 4011 bp

RefSeq ORF:	4011 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 (1) represents the longest transcript and encodes the longest isoform (a).