OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC217623

ACCN2 (ASIC1) (NM_001095) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN2 (ASIC1) (NM_001095) 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)

ORF Nucleotide Sequence:

>RC217623 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACTGAAGGCCGAGGAGGAGGAGGTGGGTGGCGTCCAGCCGGTGAGCATCCAGGCCTTCGCCAGCA
GCTCCACACTGCACGGCCTGGCCCACATCTTCTCCTACGAGCGGCTGTCTCTGAAGCGGGCACTGTGGGC
CCTGTGCTTCCTGGGCTCGCTGGCTGTGCTGCTGTGTGTGTGCACGGAGCGTGTGCAGTACTACTTCCAC
TACCACCATGTCACCAAGCTCGACGAGGTGGCTGCCTCTCAGCTTACCTTCCCTGCTGTCACGCTGTGCA
ACCTCAACGAGTTCCGCTTTAGCCAAGTCTCCAAGAATGACCTGTATCATGCTGGGGAGCTGCTGGCCCT
GCTCAACAACAGGTATGAGATACCAGACACACAGATGGCAGATGAAAAGCAGCTGGAGATACTGCAGGAC
AAAGCCAACTTCCGCAGCTTCAAACCCAAACCCTTCAACATGCGTGAGTTCTACGACCGAGCTGGGCACG
ACATTCGAGACATGCTGCTCTCCTGCCACTTCCGGGGGGAGGTCTGCAGCGCTGAAGACTTCAAGGTGGT
CTTCACACGCTATGGAAAGTGCTACACGTTCAACTCGGGCCGAGATGGGCGGCCGCGGCTGAAGACCATG
AAGGGTGGGACGGGCAATGGGCTGGAAATCATGCTGGACATCCAGCAGGACGAGTACCTGCCTGTGTGGG
GGGAGACTGACGAGACGTCCTTCGAAGCAGGCATCAAAGTGCAGATCCATAGTCAGGATGAACCTCCTTT
CATCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTCCAGACCTTTGTGGCCTGCCAGGAGCAGCGGCTC
ATCTACCTGCCCCCACCCTGGGGCACCTGCAAAGCTGTTACCATGGACTCGGATTTGGATTTCTTCGACT
CCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACGCGCTACCTGGTGGAGAACTGCAACTGCCGCAT
GGTGCACATGCCAGGGGATGCCCCATACTGTACTCCAGAGCAGTACAAGGAGTGTGCAGATCCTGCTCTG
GACTTCCTGGTGGAGAAGGACCAGGAGTACTGCGTGTGTGAAATGCCTTGCAACCTGACCCGCTATGGCA
AAGAGCTGTCCATGGTCAAGATCCCCAGCAAAGCCTCAGCCAAGTACCTGGCCAAGAAGTTCAACAAATC
TGAGCAATACATAGGGGAGAACATCCTGGTGCTGGACATTTTCTTTGAAGTCCTCAACTATGAGACCATT
GAACAGAAGAAGGCCTATGAGATTGCAGGGCTCCTGGGTGACATCGGGGGCCAGATGGGGCTGTTCATCG
GGGCCAGCATCCTCACGGTGCTGGAGCTCTTTGACTACGCCTACGAGGTCATTAAGCACAAGCTGTGCCG
ACGAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTGCGGACAAGGGCGTGGCCCTCAGCCTGGACGAC
GTCAAAAGACACAACCCGTGCGAGAGCCTTCGGGGCCACCCTGCCGGGATGACATACGCTGCCAACATCC
TACCTCACCATCCGGCCCGAGGCACGTTCGAGGACTTTACCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217623 protein sequence
Red=Cloning site Green=Tags(s)

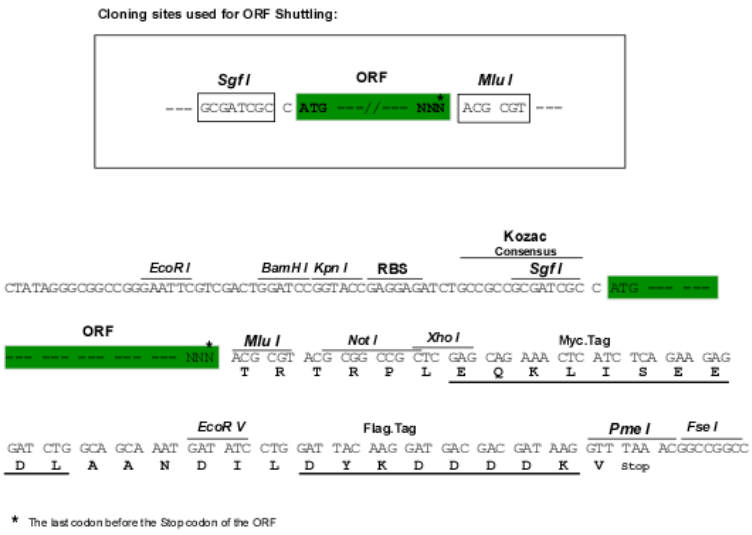
MELKAEEEEVGGVQPVSIQAFASSSTLHGLAHIFSYERLSLKRALWALCFLGSLAVLLCVCTERVQYYFH
YHHVTKLDEVAASQLTFPAVTLCNLNEFRFSQVSKNDLYHAGELLALLNNRYEIPDTQMADEKQLEILQD
KANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFRGEVCSAEDFKVVFTRYGKCYTFNSGRDGRPRLKTM
KGGTGNGLEIMLDIQQDEYLPVWGETDETSFEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFVACQEQRL
IYLPPPWGTCKAVTMDSDLDFFDSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPAL
DFLVEKDQEYCVCEMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETI
EQKKAYEIAGLLGDIGGQMGLFIGASILTVLELFDYAYEVIKHKLCRRGKCQKEAKRSSADKGVALSLDD
VKRHNPCESLRGHPAGMTYAANILPHHPARGTFEDFTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6608_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001095

ORF Size: 1584 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001095.3

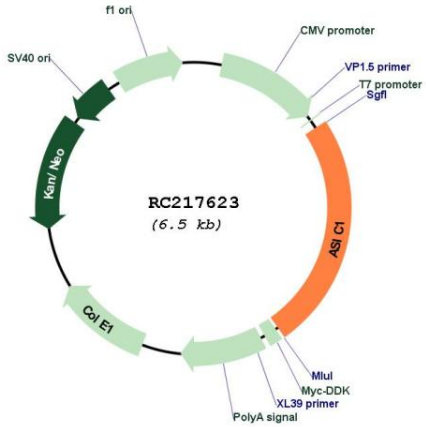
RefSeq Size: 3873 bp

RefSeq ORF: 1587 bp

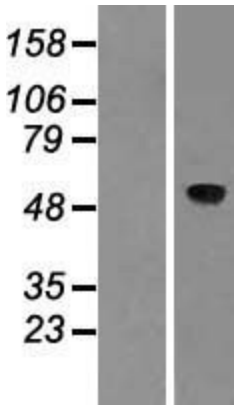
Locus ID: 41

UniProt ID:	P78348
Cytogenetics:	12q13.12
Domains:	ASC
Protein Families:	Druggable Genome, Ion Channels: Other
MW:	59.9 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]

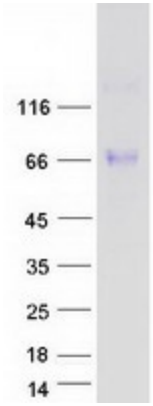
Product images:



Circular map for RC217623



Western blot validation of overexpression lysate (Cat# [LY420121]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217623 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ASIC1 protein (Cat# [TP317623]). The protein was produced from HEK293T cells transfected with ASIC1 cDNA clone (Cat# RC217623) using MegaTran 2.0 (Cat# [TT210002]).