

Product datasheet for **RG217623**

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:	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:

>RG217623 representing NM_001095
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGTGAAGCCGAGGAGGAGGTGGTGGCGTCCAGCCGGTGAAGCATCCAGGCCTTCGCCAGCA
 GCTCCACACTGCACGGCCTGGCCACATCTTCTCTACGAGCGGCTGTCTCTGAAGCGGGCACTGTGGG
 CCTGTGCTTCTGGGCTCGCTGGCTGTGCTGTGTGTGTGCACGGAGCGTGTGCACTACTTCCAC
 TACCACCATGTCACCAAGCTCGACGAGGTGGTGCCTCTCAGCTTACCTCCCTGCTGTACGCTGTGCA
 ACCTCAACGAGTTCGGCTTAGCCAAGTCTCCAAGAATGACCTGTATCATGCTGGGGAGCTGCTGGCCCT
 GCTCAACAACAGGTATGAGATACCAGACACACAGATGGCAGATGAAAAGCAGCTGGAGATACTGCAGGAC
 AAAGCCAACCTCCGCAGCTTCAAACCCAAACCCTCAACATGCGTGAGTTCTACGACCGAGCTGGGCACG
 ACATTCGAGACATGCTGCTCTCCTGCCACTTCCGGGGGAGGTCTGCAGCGCTGAAGACTCAAGGTGGT
 CTTACACGCTATGGAAAGTGTACACGTTCAACTCGGGCCGAGATGGGGCGCCGGCTGAAGACCATG
 AAGGGTGGGACGGCAATGGGCTGGAAATCATGCTGGACATCCAGCAGGACGAGTACCTGCCTGTGTGGG
 GGGAGACTGACGAGACGCTCCTTCGAAGCAGGCATCAAAGTGCAGATCCATAGTCAGGATGAACCTCCTTT
 CATCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTCCAGACCTTTGTGGCCTGCCAGGAGCAGCGGCTC
 ATCTACCTGCCCCACCCTGGGGCACCTGCAAAGCTGTTACCATGGACTCGGATTTGGATTTCTTCGACT
 CCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACGCGCTACCTGGTGGAGAAGTCAACTGCCGCAT
 GGTGCACATGCCAGGGATGCCCATACTGTACTCCAGAGCAGTACAAGGAGTGTGCAGATCCTGCTCTG
 GACTTCTGGTGGAGAAGGACCAGGACTACTGCGTGTGAAATGCCTTGCAACCTGACCCGCTATGGCA
 AAGAGCTGTCCATGGTCAAGATCCCCAGCAAAGCCTCAGCCAAGTACCTGGCCAAGAAGTCAACAAATC
 TGAGCAATACATAGGGGAGAACATCCTGGTGTGGACATTTCTTTGAAGTCTCAACTATGAGACCATT
 GAACAGAAGAAGCCTATGAGATTGCAGGGCTCCTGGGTGACATCGGGGCCAGATGGGGCTGTTATCG
 GGGCCAGCATCCTCACGGTGTGGAGCTCTTTGACTACGCCTACGAGGTCATTAAGCACAAAGCTGTGCCG
 ACGAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTGCAGCAAGGGCGTGGCCCTCAGCCTGGACGAC
 GTCAAAGACACAACCCGTGCGAGAGCCTTCGGGGCCACCCTGCCGGGATGACATACGCTGCCAACATCC
 TACCTACCATCCGGCCGAGGCAGGCTTCGAGGACTTTACCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG217623 representing NM_001095
 Red=Cloning site Green=Tags(s)

MELKAEVEEVGGVQPVSIQAFASSTLHGLAHIFSYERLSLKRALWALCFLGSLAVLLCVCTERVQYYFH
 YHHVTKLDEVAASQLTFPAVTLNLFNFRFSQVSKNDLYHAGELLALLNNRYEIPDTQMADEKQLEILQD
 KANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFGEVCSAEDFKVVFTRYGKCYTFNSGRDGRPRPKTM
 KGGTGNLEIMLDIQDEYLPVWGETDETSFEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFVACQEQR
 IYLPWPWTCKAVTMSDLDFDYSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPAL
 DFLVEKDQEYCVCEMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETI
 EQKKAYEIAGLLDIGGQMGFLIGASILTVLELFDYAYEVIKHKLCRRGKCQKEAKRSSADKGVALLSDD
 VKRHNPCESLRGHPAGMTYAANILPHHPARGTFEDFTC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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.

RefSeq: [NM_001095.3](#)

RefSeq Size: 3785 bp

RefSeq ORF: 1587 bp

Locus ID: 41

UniProt ID: [P78348](#)

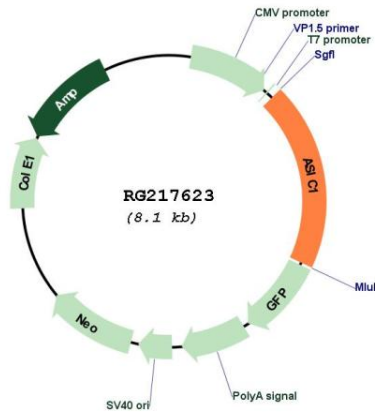
Cytogenetics: 12q13.12

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]

Product images:



Circular map for RG217623