

Product datasheet for **RG210409**

ACCN1 (ASIC2) (NM_001094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN1 (ASIC2) (NM_001094) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACCN1
Synonyms:	ACCN; ACCN1; ASIC2a; BNaC1; BNC1; hBNaC1; MDEG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210409 representing NM_001094
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCTCAAGGAAAGCCCCAGTGAGGGCAGCCTGCAACCTTCTAGCATCCAGATCTTTGCCAACACCT
 CCACCCTCCATGGCATCCGCCACATCTTCGTGTATGGGCCGTGACCATCCGGCGTGTGCTGGGGCAGT
 GGCTTCGTGGGCTCTCTGGGCCTGCTGCTGGTGGAGAGCTCTGAGAGGGTGTCTACTACTTCTCTAC
 CAGCATGTACTAAGGTGGACGAAGTGGTGGCTCAAAGCCTGGTCTCCAGCTGTGACCTCTGTAACC
 TCAATGGCTTCCGGTTCTCCAGGCTCACCACCAACGACCTGTACCATGCTGGGGAGCTGTGGCCCTGCT
 GGATGTCAACCTGCAGATCCCGGACCCCATCTGGCTGACCCCTCCGTGCTGGAGGCCCTGCGGCAGAAG
 GCCAATTCAAGCACTACAAACCAAGCAGTTCAGCATGCTGGAGTTCCTGCACCGTGTGGCCATGACC
 TGAAGGATATGATGCTCTACTGCAAGTTCAAAGGGCAGGAGTGGCCACCAAGACTTCACCACAGTGT
 TACAAAATATGGGAAGTGTACATGTTAACTCAGGCGAGGATGGCAAACCTCTGCTCACCACGGTCAAG
 GGGGGGACAGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAGGATGAGTACCTGCCATCTGGGGAG
 AGACAGAGGAAACGACATTTGAAGCAGGAGTGAAGTTTCAGATCCACAGTCACTGAGCCACCTTTCAT
 CCAAGAGCTGGGCTTTGGGGTGGCTCCAGGGTTCAGACCTTTGTGGCCACACAGGAGCAGAGGCTCACA
 TACCTGCCCCACCGTGGGGTGAAGTCCAGGATCCTCAGAGATGGGCTCGACTTTTTCTGTTTACAGCA
 TCACCGCTGTAGGATTGACTGTGAGACCCGCTACATTGTGAAAACGCAACTGCCGCATGGTTACAT
 GCCAGGGGATGCCCTTTTTGTACCCCTGAGCAGCACAAGGAGTGTGAGAGCCTGCCCTAGGTCTGTTG
 GCGAAAAGGACAGCAATTACTGTCTCTGAGGACACCTGCAACCTAACCCGCTACAACAAGAGCTCT
 CCATGGTGAAGATCCCCAGCAAGACATCAGCCAGTACCTTGAGAAGAAATTAACAAATCAGAAAAATA
 TATCTCAGAGAACATCCTTGTCTGGATATATTTTTGAAGCTCTCAATTATGAGACAATTGAACAGAAG
 AAGGCGTATGAAGTTGCTGCCTTACTTGGTGTATTTGGTGGTCAAGTGGGATTGTTCACTGGTGTAGTA
 TCCTTACAATACTAGAGCTCTTTGATTATTTATGAGCTGATCAAAGAGAAGCTATTAGACCTGCTTGG
 CAAAGAGGAGGACGAAGGGAGCCACGATGAGAATGTGAGTACTTGTGACACAATGCCAAACCACTCTGAA
 ACCATCAGTCACACTGTGAACGTGCCCTGCAGACGACCTGGGGACCTTGAGGAGATTGCCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210409 representing NM_001094
 Red=Cloning site Green=Tags(s)

MDLKESPSEGLQPSSIQIFANTSTLHGIRHIFVYGPLTIRRVLWAVAFVGSGLLLVESSERVSYFYSY
 QHVTKVDEVVAQSLVFPVAVTLCNLNGFRFSRLTTNDLYHAGELLALLDVNLQIPDPHLADPSVLEALRQK
 ANFKHYKPKQFSMLEFLHRVGHDLKDMMLYCKFKGQECGHQDFTTVFTKYGKCYMFNSGEDGKPLLTVK
 GGTGNLEIMLDIQQDEYLPWGETEETFEAGVKVQIHSQSEPPFIQELGFVAPGFQTFVATQEQRLLT
 YLPPPWGECSRSEMGLDFPVSITACRIDCETRYIVENCNCRMVHMPGDAPFCTPEQHKECAEPALGLL
 AEKDSNYCLCRTPCNLTRYNKELSMVKIPSKTSAKYLEKKFNKSEKYISENILVLDIFFEALNYETIEQK
 KAYEVAALLGDIGQMGLFIGASILTILELFDYIYELIKEKLLDLLGKEEDEGSHDENVSTCDTMPNHSE
 TISHTVNVPLQTTLGTLEEIAC

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001094

ORF Size: 1536 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_001094.4](#), [NP_001085.2](#)

RefSeq Size: 2747 bp

RefSeq ORF: 1539 bp

Locus ID: 40

UniProt ID: [Q16515](#)

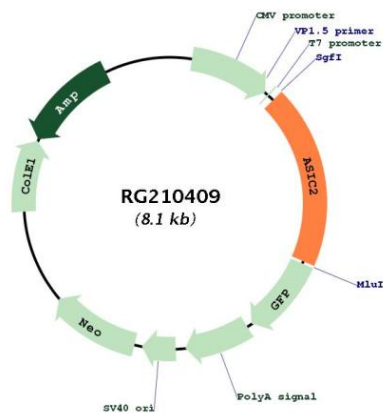
Cytogenetics: 17q11.2-q12

Protein Families: Druggable Genome, Ion Channels: Other

Protein Pathways: Taste transduction

Gene Summary: This gene encodes a member of the degenerin/epithelial sodium channel (DEG/ENaC) superfamily. The members of this family are amiloride-sensitive sodium channels that contain intracellular N and C termini, 2 hydrophobic transmembrane regions, and a large extracellular loop, which has many cysteine residues with conserved spacing. The member encoded by this gene may play a role in neurotransmission. In addition, a heteromeric association between this member and acid-sensing (proton-gated) ion channel 3 has been observed to co-assemble into proton-gated channels sensitive to gadolinium. Alternative splicing has been observed at this locus and two variants, encoding distinct isoforms, have been identified. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG210409