

Product datasheet for **RG219845**

ACCN1 (ASIC2) (NM_183377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN1 (ASIC2) (NM_183377) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASIC2
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:

>RG219845 representing NM_183377
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCGGATTGGCGGAGCCGGCTGCCCGCAGCCGCGCTACCGGCCCGGGACGCTTCCGCATGGCCC
 GCGAGGAGCCGGCGCCCGCGGCTTGGCGGCTGCCGGCAGCCGGGGCGGCAGAGGCGGCGAGCGGGC
 GCTGCAGGGGCCAGGGTCCGCCAGGGGGCGGCCATCGCTGAGCCGCGCTAAACTGCACGGGCTGCGG
 CATATGTGTGCCGGGCGCACGGCGGCTGGGGGCTCCTTCCAGCGCGGGCGCTGTGGGTGCTGGCCTTCT
 GTACATCCTTCGGCTTGTGTCTCTGGTCTCGAACCGCTTGTCTACTGGCTCAGCTTCCCCTCACA
 CACGCGGGTGCACCGGAGTGGAGCCGCACTTACCCTTCCCGCCGCTACTGTGTGCAACAACAACCCG
 CTGCGCTTCCCGCGCTCTCAAGGGGGACCTCTACTATGCCGGCCACTGGCTCGGGTGTCTGTGCCCA
 ACCGCACCGCGCCCGCTTGTACGCGAGCTGCTGCGGGGCGACGAGCCGCGCCAGTGGTCCGCAA
 GCTGGCGGACTTCCGCTCTTCTGCTCCGCGCCACTTCGAGGGAATCAGCGCCGCTTATGGACCGC
 CTGGGCCACAGCTGGAGGACATGCTGCTCTCTGCAAGTACCGCGCGAGCTCTGCGGGCGCACAACT
 TCTCTCCGTGTTTACAAAATATGGGAAGTGTACATGTTTAACTCAGGCAGGATGGCAAACCTCTGCT
 CACCACGGTCAAGGGGGGACAGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAGGATGAGTACCTG
 CCCATCTGGGGAGAGACAGAGGAAACGACATTTGAAGCAGGAGTAAAGTTTCCAGTCCACAGTCACTG
 AGCCACCTTTCATCCAAGAGCTGGGCTTGGGGTGGCTCCAGGGTCCAGACCTTGTGGCCACACAGGA
 GCAGAGGCTCACATACCTGCCCCACCGTGGGGTGAAGTCCAGATCCTCAGAGATGGGCTCGACTTTTT
 CCTGTTTACAGCATCACCGCTGTAGGATTGACTGTGAGACCCGCTACATTGTGGAAAACGCAACTGCC
 GCATGGTTCACATGCCAGGGGATGCCCTTTTTGTACCCCTGAGCAGCACAAGGAGTGTGCAGAGCTGC
 CCTAGGCTGTTGGCGGAAAAGGACAGCAATTACTGTCTCTGCAGGACACCCTGCAACCTAACCCGCTAC
 AACAAAGAGCTCTCCATGGTGAAGATCCCAGCAAGACATCAGCCAAGTACCTTGAGAAGAAATTTAACA
 AATCAGAAAAATATATCTCAGAGAACATCCTTGTCTGGATATATTTTTGAAGCTCTCAATTATGAGAC
 AATTGAACAGAAGAAGCGTATGAAGTTGCTGCCTTACTTGGTATATTGGTGGTCAAGTGGGATTGTT
 ATTGGTGTAGTATCCTTACAATACTAGAGCTCTTTGATTATTTATGAGCTGATCAAAGAGAAGCTAT
 TAGACCTGCTGGCAAAGAGGAGGACGAAGGGAGCCACGATGAGAATGTGAGTACTTGTGACACAATGCC
 AAACCACTCTGAAACCATCAGTCACACTGTGAACGTGCCCTGCAGACGACCCTGGGACCTTGGAGGAG
 ATTGCCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219845 representing NM_183377
 Red=Cloning site Green=Tags(s)

MSRIGGAGLPAAALTGPGRFRMAREEPAPAALAAGQPGGGRGGERALQGPVARRRGRPSLSRAKLHGLR
 HMCAGRTAAGGSFQRRALWVLAFCSTFGLLLSWSSNRLLYWLSFPSHTRVHREWSRQLPFPVAVTVCNNP
 LRFPRLSKGDLYYAGHWLGLLLPNRTARPLVSELLRGDEPRRQWFRKLADFRLFLPPRHFEGISAAFMDR
 LGHQLEDMLLSCKYRGELCGPHNFSSVFTKYGKCYMFNSGEDGKPLLTTVKGGTNGLEIMLDIQQDEYL
 PIWGETEETTFEAGVKVQIHSQSEPPFIQELGFGVAPGFQTFVATQEQLTYLPPPWGECRSSEMGLDFF
 PVYSITACRIDCETRYIVENCNCRMVHMPGDAPFCTPEQHKECAEPALGLLAEKDSNYCLCRTPCNLTRY
 NKELSMVKIPSKTSAKYLEKKFNKSEKYISENIVLDIFFEALNYETIEQKKAYEVAALLGDIGGQMLF
 IGASILTILELFDYIYELIKEKLLDLLGKEEDEGSHDENVSTCDTMPNHSETISHTVNVPLQTTLGTLLEE
 IAC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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_183377.1 , NP_899233.1
RefSeq Size:	3470 bp
RefSeq ORF:	1692 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]