

## Product datasheet for **RG234440**

### ACCN2 (ASIC1) (NM\_001256830) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN2 (ASIC1) (NM_001256830) 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:**

>RG234440 representing NM\_001256830  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCATCCAGATCTTCTGCTCCATGTCAATTCTCTCTGGAGAGGAAGCCCCAGGGCCCTTGGGAGATA  
 TTTGGGGTCCCCACCACCATCAGCAGCAGCAGGACATCTCAGAATCGGAAGAGGAGGAAGAAGAGAAAGGA  
 AAAGGAGGCAGTGAGGAAGGAGGCCAGTGAGGGGCATTACCCATGGACTTGGTGGCCTTTGCCAACAGC  
 TGCACCCTCCATGGACCAACCACATTTTTGTGGAGGGGGTCCAGGGCCAAGGCAGGTGCTGTGGGCGG  
 TGGCCTTTGTCCTGGCACTGGGTGCCTTCTGTGCCAGTAGGGGACCGCTTGTATTACCTCAGCTA  
 CCCACACGTGACCCTTCTAAACGAAGTGGCCACCACGGAGCTGGCCTTCCCGGCAGTCACCTCTGCAAC  
 ACTAATGTGTGCGGCTGTCCAGCTCAGCTACCCTGACTTGTCTTATTGGCCCCATGCTGGGACTGG  
 ATGAAAGTGATGACCCCGGGTGCCTCGCTCCACCGGGCCCTGAGGCCTTCTCTGGGGAGCCCTTAA  
 CCTGCACCGCTTCTACAATCGCTCCTGCCACCGGCTGGAGACATGCTGCTCTATTGCTCCTACCAAGGG  
 GGACCCTGCGGCCCTCACAACTTCTCAGTGGTCTTACACGCTATGGAAAGTGCTACACGTTCAACTCGG  
 GCCGAGATGGGGCGCCGGCTGAAGACCATGAAGGGTGGGACGGGAATGGGCTGGAAATCATGCTGGA  
 CATCCAGCAGGACGAGTACCTGCCTGTGTGGGGGAGACTGACGAGACGCTCTTGAAGCAGGCATCAA  
 GTGCAGATCCATAGTCAGGATGAACCTCCTTTCATCGACCAGCTGGGCTTTGGCGTGGCCCCAGGCTTC  
 AGACCTTTGTGGCCTGCCAGGAGCAGCGGCTCATCTACCTGCCCCACCTGGGGCACCTGCAAAGCTGT  
 TACCATGGACTCGGATTTGGATTTCTTCGACTCCTACAGCATCACTGCCTGCCGCATCGACTGTGAGACG  
 CGCTACCTGGTGGAGAAGTCAACTGCCGCATGGTGCACATGCCAGGGGATGCCCATACTGTACTCCAG  
 AGCAGTACAAGGAGTGTGCAGATCTGCTCTGGACTTCTGGTGGAGAAGGACCAGGAGTACTGCTGTG  
 TGAAATGCCTTGCAACCTGACCCGCTATGGCAAAGAGCTGCCATGGTCAAGATCCCCAGCAAAGCTCA  
 GCCAAGTACCTGGCCAAGAAGTTCAACAAATCTGAGCAATACATAGGGGAGAACATCCTGCTGCTGGACA  
 TTTTCTTTGAAGTCTCAACTATGAGACCATTGAACAGAAGAAGGCCTATGAGATTGCAGGGCTCCTGGG  
 TGACATCGGGGCCAGATGGGGCTGTTTCATCGGGGCCAGCATCCTCACGGTGTGGAGCTCTTTGACTAC  
 GCCTACGAGGTCATTAAGCACAAGCTGTGCCGACGAGGAAAATGCCAGAAGGAGGCCAAAAGGAGCAGTG  
 CGGACAAGGGCGTGGCCCTCAGCCTGGACGACGTCAAAGACACAACCCGTGCGAGACCTTCGGGGCCA  
 CCCTGCCGGGATGACATACGCTGCCAACATCCTACCTACCATCCGGCCCGAGGCACGTTTCGAGGACTTT  
 ACCTGC

**ACGCGT**ACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234440 representing NM\_001256830  
 Red=Cloning site Green=Tags(s)

MPIQIFCSMSFSSGEEAPGLGDIWGPHHHQQQDI SESEEEEEKEKEAVRKEASEGHSPMDLVAFANS  
 CTLHGTNHIFVEGGPGRQVLWAVAFVLALGAFLCQVGDVAVYLSYPHVTLLNEVATTELAFPVTLN  
 TNAVRLSQLSYPDLLYLAPMLGLDESDDPGVPLAPPGPEAFSGEPFNLHRFYNRSCHRLEDMLLYCSYQG  
 GPCGPHNF SVVFTRYGKCYTFNSGRDGRPRLKTMKGGTNGLEIMLDIQQDEYLPVWGETDETSFEAGIK  
 VQIHSQDEPPFIDQLGFGVAPGFQTFVACQEQLIYLPPPWTCKAVTMSDLDFDYSYSITACRIDCET  
 RYL VENCNCRMVHMPGDAPYCTPEQYKECADPALDFLVEKDQEYCVCEMPCNLTRYGKELSMVKIPSKAS  
 AKYLAKKFNKSEYI GENILVLDIFFEVLNYETIEQKAYE IAGLLGDIGGQMLF IGASILTVLELFDY  
 AYEVIKHKLCRRGKCQKEAKRSSADKGV ALSDDVKRHNPCESLRGHPAGMTYAANILPHHPARGTFEDF  
 TC

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001256830

**ORF Size:** 1686 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\\_001256830.1](#), [NP\\_001243759.1](#)

**RefSeq Size:** 3679 bp

**RefSeq ORF:** 1689 bp

**Locus ID:** 41

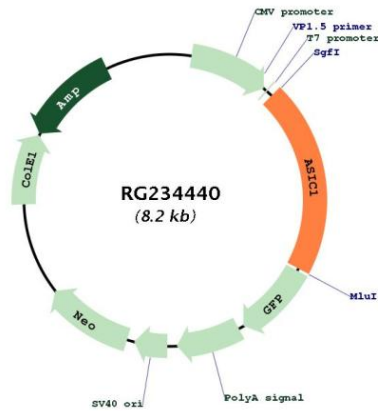
**UniProt ID:** [P78348](#)

**Cytogenetics:** 12q13.12

**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 RG234440