

## Product datasheet for **SC309761**

### ASIC3 (NM\_004769) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASIC3 (NM_004769) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASIC3
Synonyms:	ACCN3; DRASIC; SLNAC1; TNaC1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

>OriGene ORF sequence for NM\_004769 edited  
 GGGCGCCCGAATTCGGCACCAGCTGCCTTCCAACCTTGGCTTGTCTCCCACCCTCTCT  
 TCTCCTCTCCTTGGCTGGCCTCTGAATCCTATCTTAGCCTCCTTAGCCCCCTGACTGAC  
 TCTCTCTCGTCTTCCAAGCCTCTGTAGCTGGTCCGCTCCTGGGTTCTGGCCATGAAG  
 CCCACCTCAGGCCAGAGGAGGCCCGCGGCCAGCCTCGGACATCCGCGTGTTCGCCAGC  
 AACTGCTCGATGCACGGCTGGGCCACGTCTTCGGGCCAGGACGCTGAGCCTGCGCCGG  
 GGGATGTGGGACGCGCCGTGGTCTGTAGTGGCCACCTTCTCTACCAGGTGGCTGAG  
 AGGGTGCCTACTACAGGGAGTTCCACCACCAGACTGCCCTGGATGAGCGAGAAAGCCAC  
 CGGCTCATCTTCCCGGCTGTACACCTGTCAACATCAACCCTACTGCGCCGCTCGGCCTA  
 ACGCCCAACGACCTGCACTGGGCTGGGTCTGCGCTGCTGGGCTGGATCCCGCAGAGCAC  
 GCCGCTTCTGCGCGCCCTGGGCCGGCTCCTGCACCGCCCGGCTTCATGCCAGTCCC  
 ACCTTTGACATGGCGCAACTCTATGCCCGTGTGGGCACTCCCTGGATGACATGTGCTG  
 GACTGTCGCTTCCGTGGCAACCTTGTGGGCTGAGAATTACCACGATCTTACCCGG  
 ATGGGAAAGTGTACACATTTAACTCTGGCGCTGATGGGGCAGAGCTGCTCACCCTACT  
 AGGGGTGGCATGGCAATGGGCTGGACATCATGTGGACGTGCAGCAGGAGGAATATCTA  
 CCTGTGTGGAGGACAATGAGGAGACCCGTTTGAAGTGGGGATCCGAGTGCAGATCCAC  
 AGCCAGGAGGAGCCGCCATCATCGATCAGCTGGGCTTGGGGGTGTCCCGGGCTACCAG  
 ACCTTTGTTTCTTCCAGCAGCAGCAGCTGAGCTTCTGCCACCGCCCTGGGGGATTGC  
 AGTTCAGCATCTCTGAACCCCAACTATGAGCCAGAGCCCTCTGATCCCCTAGGCTCCCC  
 AGCCCCAGCCCCAGCCCTCCCTATACCTTATGGGGTGTGCGCTGGCCTGCGAAACCCGC  
 TACGTGGCTCGGAAGTGGGCTGCCAATGGTGTACATGCCAGGCGACGTGCCAGTGTGC  
 AGCCCCAGCAGTACAAGAACTGTGCCACCCGGCCATAGATGCCATGCTTCGCAAGGAC  
 TCGTGGCTGCCCAACCCGTGCGCCAGCAGCGCTACGCCAAGGAGCTCTCCATGGTG  
 CGGATCCCGAGCCGCGCCGCGCGCTTCTGGCCCGAAGCTCAACCCGAGCGAGGCC  
 TACATCGCGGAGAACGTGCTGGCCCTGGACATCTCTTTGAGGCCCTCAACTATGAGACC  
 GTGGAGCAGAAGAAGGCCTATGAGATGTCAGAGCTGCTTGGTGACATTGGGGGCCAGATG  
 GGGCTGTTTCATCGGGGCCAGCCTGCTCACCATCCTCGAGATCCTAGACTACCTCTGTGAG  
 GTGTTCCGAGACAAGGTCTGGGATATTTCTGGAACCGACAGCACTCCCAAAGGCACTCC  
 AGCACCAATCTGCTTCAGGAAGGGCTGGGAGCCATCGAACCAAGTTCACCCCTCAGC  
 CTGGGCCCCAGACCTCCACCCCTCCCTGTGCCGTACCAAGACTCTCTCCGCTCCAC  
 CGCACCTGCTACCTTGTACACAGCTCTAGACCTGCTGTCTGTCTCGGAGCCCCGCC  
 CTGACATCCTGGACATGCCTAGCCTGCAGTAGCTTTTCCGTCTTCAACCCAAATAAAGT  
 CCTAATGCATCAGCAAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCG

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004769 unedited  
 NTATATCGCCGACCCCTTGTCCCAATGGGCGGTAGGCGGTACAGTGGGAGGTCTATAT  
 AAGCAGAGCTTGTAGTGAACCGTCAGTATTTTGTAAACGACTACTATAGGGCGGCT  
 CGCGAATTCGGCACCCAGCTGCCTTCCAACCTTGGCTTGTCTCCACCCTCTCTTCTCCTC  
 TCCTTGCCTGGCCTCCTGAATCCTATCTTAGCCTCCTTAGCCCCCTGACTGACTCTCTCT  
 CGCTTCTTCCAAGCCTCTGTAGCTGGTTCGCTCCTGGGTTCTGGCCATGAAGCCACCT  
 CAGGCCAGAGGAGGCCCGCGGCCAGCCTCGGACATCCGCGTGTTCGCCAGCAACTGCT  
 CGATGCACGGGCTGGGCCACGTCTTCTGGCCAGGCATCCTGAGCCTGCGCCGGGGATGT  
 GGGCAGCGCCGTGGTCTGTAGTGGCCACCTTCTCTACCAGGTGGCTGAGAGGGTGC  
 GCTACTACAGGGAGTCCACCACCAGACTGCCCTGGATGAGCGAGAAAGCCACCGGCTCA  
 TCTTCCCGGCTGTACCCTGTGCAACATCAACCCTACTGCGCCGCTCGCGCCTAACGCCCA  
 ACGACCTGCACTGGGCTGGGCTGCGCTGCTGGGCTGGATCCCGCAGAGCACGCCGCT  
 TCTGCGCGCCCTGGGCCGGCCTCCTGCACCGCCCGGCTTCATGCCAGTCCCACCTTTG  
 ACATGACGCAACTCTATGCCCGTGTAGGCACTCCCTGNATGACATGCTGCTGGACTGTC  
 GCTTACCGTGGCAACCTTTGTGGGCTGAGAATTACCACGATCTTACCCCGGATGGG  
 GAAAGTGTACACATTTTACTCTGCGCTGATGGGGCAGAAGTGTACACTCTAAGGGT  
 GGCATGGGCA

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004769 unedited NNNTTGGTTCATTAGGACTTTTTTGGGGTNGAANCNGNAAAACACGTGCAGGCTAGGCAT GTCCAGGATGTCAGGGCGGGGCTCCGAGGACACAGACAGCAGGTCTAGAGCTGTGTGACA AGGTAGCAGGTGCGGTGGGAGGCGGAGAGAGTCTTGGTGACGGCACAGGGAGGGGTGGGA GGTCTGGGGCCCAGGCTGAGGTGGGAACTTGGGTTTCGATGGCTGCCAGCCCTTCTGA AGCAGATTGGTGTGAGTGCCTTTGGGAGTGTGCGGTTCCAGAAATATCCCAGGACC TTGTCTCGGAACACCTCACAGAGGTAGTCTAGGATCTCGAGGATGGTGAGCAGGCTGGCC CCGATGAACAGCCCATCTGGCCCCAATGTACCAAGCAGCTCTGACATCTCATAGGCC TTCTTCTGCTCCACGGTCTCATAGTTGAGGGCCTCAAAGAAGATGTCCAGGGCCAGCACG TTCTCCGCGATGTAGGCCTCGCTGCGGTTGAGCTTCCGGGCCAGGAAGCGCGCGGCGCG CGGCTCGGGATCCGCACCATGGAGAGCTCCTTGGCGTAGCGCGTGTGGCGCACGGGTTG GGGCAGGCGCACGAGTCTTGCAGAGCATGGCATCTATGGCCGGTGGGCACAGTTCTTG TACTGCTGGGGGCTGCACACTGGCACGTCGCTGGCATGTACACCATTCCGCAGCCGCAC TTCCGAGCCACGTAGCGGGTTTCGAGGCCAGGCGACACCCCATAGGGTATAGGGAGGG CTGGGGCTGGGGTGGGGGAGCCTAAGGGATCAAAGGGCTCTGGCTCATAGTTTGGGGTT CAGAGATGCTGAACTGCAATCGCCCCAGGCGGTGGCCAGAAGCTCAACTGCTGTGCTG GCAAAC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_004769
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_004769.1</a></u> , <u><a href="#">NP_004760.1</a></u>
<b>RefSeq Size:</b>	1746 bp
<b>RefSeq ORF:</b>	1596 bp
<b>Locus ID:</b>	9311
<b>UniProt ID:</b>	<u><a href="#">Q9UHC3</a></u>
<b>Cytogenetics:</b>	7q36.1
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other

**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, two hydrophobic transmembrane regions, and a large extracellular loop, which has many cysteine residues with conserved spacing. The member encoded by this gene is an acid sensor and may play an important role in the detection of lasting pH changes. In addition, a heteromeric association between this member and acid-sensing (proton-gated) ion channel 2 has been observed as proton-gated channels sensitive to gadolinium. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2012]

Transcript Variant: This variant (1) uses an alternate splice site in the 3' coding region, compared to variant 2. The resulting protein (isoform a) has a shorter and distinct C-terminus, compared to isoform b.