

Product datasheet for **SC110043**

ASIC3 (NM_020321) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASIC3 (NM_020321) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASIC3
Synonyms:	ACCN3; DRASIC; SLNAC1; TNaC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC110043 sequence for NM_020321 edited (data generated by NextGen Sequencing)

```

ATGAAGCCACCTCAGGCCAGAGGAGGCCCGCGGCCAGCCTCGGACATCCGCGTGTT
GCCAGCAACTGCTCGATGCACGGGCTGGGCCACGTCTTCGGGCCAGGCAGCCTGAGCCTG
CGCCGGGGGATGTGGGCAGCGCCGTGGTCCTGTCACTGGCCACCTTCTCTACCAAGTG
GCTGAGAGGGTGCCTACTACAGGGAGTCCACCACCAGACTGCCCTGGATGAGCGAGAA
AGCCACCGGCTCATCTCCCGGCTGTACCCCTGTGCAACATCAACCCACTGCGCCGCTCG
CGCCTAACGCCCAACGACCTGCACTGGGCTGGGTCTGCGCTGCTGGGCCTGGATCCCGCA
GAGCACGCCGCTTCTGCGCGCCTGGGCCGGCCCCCTGCACCGCCCGCTTATGCCC
AGTCCCACCTTTGACATGGCGCAACTCTATGCCCGTGTGGGCACTCCCTGGATGACATG
CTGCTGGACTGTCGCTTCCGTGGCAACCTTGTGGGCCTGAGAACTTACCACGATCTTC
ACCCGGATGGGAAAGTGCTACACATTTAACTCTGGCGCTGATGGGCAGAGCTGCTCACC
ACTACTAGGGTGGCATGGCAATGGGCTGGACATCATGCTGGACGTGCAGCAGGAGGAA
TATCTACCTGTGTGGAGGACAATGAGGAGACCCGTTTGGAGTGGGGATCCGAGTGCAG
ATCCACAGCCAGGAGGAGCCGCCATCATCGATCAGCTGGGCTTGGGGGTGCCCGGGC
TACCAGACCTTTGTTTCTTGCCAGCAGCAGCTGAGCTTCTGCCACCGCCCTGGGGC
GATTGCAGTTCAGCATCTCTGAACCCAACTATGAGCCAGAGCCCTCTGATCCCCTAGGC
TCCCCAGCCCCAGCCCCAGCCCTCCCTATACCCTTATGGGGTGTGCGCTGGCCTGCGAA
ACCCGCTACGTGGCTCGGAAGTGCAGGCTGCCGAATGGTGTACATGCCAGGCGACGTGCCA
GTGTGCAGCCCCAGCAGTACAAGAACTGTGCCACCCGGCCATAGATGCCATGCTTCGC
AAGGACTCGTGCCTGCCCAACCCGTGCGCCAGCAGCGCTACGCCAAGGAGCTCTCC
ATGGTGGGATCCCGAGCCGCGCCGCGCGCTTCTGGCCGGAAGCTCAACCGCAGC
GAGGCCTACATCGCGGAGAAGCTGCTGGCCCTGGACATCTTCTTGGAGCCCTCAACTAT
GAGACCGTGGAGCAGAAGAAGGCTATGAGATGTGACAGCTGCTTGGTGACATTGGGGC
CAGATGGGCTGTTCATCGGGGCCAGCCTGCTCACCATCCTCGAGATCCTAGACTACCTC
TGTGAGGTGTTCCGAGACAAGGCTCTGGGATATTTCTGGAACCGACAGCACTCCCAAAGG
CACTCCAGCACCAATCTGCTTCCAGGAAGGCTGGGCAGCCATCGAACCAAGTCCCCAC
CTCAGCCTGGGCCAGCACTCTGCTCTGTTCCGAAGACCTCCACCCCTCCCTGTGCCG
TCACCAAGACTCTCTCCGCTCCACCGCACCTGCTACCTTGTACACAGCTCTAGACCT
GCTGTCTGTGCTCGGAGCCCCGCCCTGA
    
```

Clone variation with respect to NM_020321.2

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_020321 unedited
NCGGTTAGATTTGTATACGACTTACTATAGGCGGCCGGAATTCGACCAGCTGCCTTC
CAACCTTGGCTGTCTCCACCCCTCTCTTCTCCTCTCCTTGCCCTGGCCTCCTGAATCCTAT
CTTAGCCTCCTTAGCCCCCTGACTGACTCTCTCTCGCTTCTTCCAAGCCTCTGTAGCTGG
TTCCGCTCCTGGGTTCTGGCCATGAAGCCACCTCAGGCCAGAGGAGGCCCGGCCGCA
GCCTCGGACATCCGCGTGTTCGCCAGCAACTGCTCGATGCACGGGCTGGGCCACGTCTTC
GGGCCAGGCAGCCTGAGCCTGCGCCGGGGATGTGGCAGCGGCCGTGGTCTGTCACTG
GCCACCTTCTCTACCAGGTGGCTGAGAGGGTGCCTACTACAGGGAGTCCACCACCAG
ACTGCCCTGGATGAGCGAGAAAGCCACCGGCTCATCTCCCGGCTGTACCCTGTGCAAC
ATCAACCCACTGCGCCGCTCGCGCTAACGCCAACGACCTGCACTGGGCTGGGTCTGCG
CTGCTGGGCTGGATCCCGCAGAGCAGCCGCTTCTGCGGCCCTGGGCCGGCCCCCT
GCACCGCCGGCTTCATGCCAGTCCCACCTTTGACATGGCGCAACTCTATGCCCGTGT
GGGCACTCCCTGGATGACATGCTGCTGGACTGTGCTTCCGTGGCCAACCTTGTGGCC
TGAGAACTTACCACGATCTTACCCGGATGGGAAAGTGCTACACATTTAACTCTGGCGC
TGATGGGCAGAGCTGCTCACCCTACTAGGGTGGCATGGGCAATGGGCTGAACATCA
TGCTNGACGTGCAGCAGGAGGAAATCTACCTGTGTGGAGGGACAATGAGAGACCCCGT
TTGAGGTGGGGATCCGATTGCAGATCCCCANCCAGG
    
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020321 unedited TTTGGCCGTACNTAGTACCGCGCCGCTTTCTANGATCNGTTTTTTTTTTTTTTTTTTTGC TGATGCATTAGGACTTTATTTGGGGTGAAGACGGAAAAGCTACGTGCAGGCTAGGCATGT CCAGGATGTCAGGGCGGGGCTCCGAGGACACAGACAGCAGGTCTAGAGCTGTGTGACAAG GTAGCAGGTGCGGTGGGAGGCGGAGAGAGTCTTGGTGACGGCACAGGGAGGGTGGGAGG TCTTCGGAACAGAGCAGAGTGTGGGGCCAGGCTGAGGTGGGAACTTGGGTTCGATGG CTGCCAGCCCTTCTGAAGCAGATTGGTGTGGAGTGCCTTTGGGAGTGTGTGCGGTTCC CAGAAATATCCCAGGACCTTGTCTCGGAACACCTCACAGAGGTAGTCTAGGATCTCGAGG ATGGTGAGCAGGCTGGCCCCGATGAACAGCCCCATCTGGCCCCCAATGTACCAAGCAGC TCTGACATCTCATAGGCCTTCTTCTGCTCCACGGTCTCATAGTTGAGGGCCTCAAAGAAG ATGTCCAGGGCCAGCACGTTCTCCGCGATGTAAGCCTCGTTCGCGTTGAGCTTCCGGGCC AGGAAGCGCGCGGCGCGGCTCGGGATCCGCACCATGGAGAGCTCCTTGGCGTAACGC GTGCTGGCGCACGGTTGGGCGAGGCGCACGAGTCTTGCAGCATGGCATCTATGGCC GGGTGGGCACAGTTCTTGTACTGCTGGGGCTGCACACTGGCACGTGCCTGGCATGTAC ACCATTCGGCAGCCGCACTTCCGAGCCAGTAACGGGTTTCGAGGCCAGGCGACACCCC CTAAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_020321
Insert Size:	2250 bp
OTI Disclaimer:	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).
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_020321.1 , NP_064717.1
RefSeq Size:	1766 bp
RefSeq ORF:	1650 bp
Locus ID:	9311
UniProt ID:	Q9UHC3
Cytogenetics:	7q36.1
Domains:	ASC
Protein Families:	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 (2) represents the longest transcript and encodes the longest isoform (b).