

Product datasheet for **RC219013**

ASIC3 (NM_020322) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASIC3 (NM_020322) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ASIC3
Synonyms:	ACCN3; DRASIC; SLNAC1; TNaC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219013 representing NM_020322
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCCACCTCAGGCCAGAGGAGGCCGGCGGCCAGCCTCGGACATCCGCGTGTTCGCCAGCAACT
 GCTCGATGCACGGCTGGGCCACGTCTTCGGGCCAGCAGCCTGAGCCTGCGCCGGGGATGTGGGCAGC
 GGCCGTGGTCTGTCAAGTGGCCACCTTCTCTACCAGGTGGCTGAGAGGGTGCCTACTACAGGGAGTTC
 CACCACCAGACTGCCCTGGATGAGCGAGAAAGCCACCGGCTCATCTTCCCGGCTGTACCCTGTGCAACA
 TCAACCCACTGCGCCGCTCGCGCTAACGCCAACGACCTGCACTGGGCTGGGTCTGCGCTGCTGGGCT
 GGATCCCGCAGAGCAGCCGCTTCTGCGCGCCCTGGGCCGGCCCTGCACCGCCCGGCTTCATGCC
 AGTCCCACCTTTGACATGGCGAACTCTATGCCCGTGTGGGCACTCCCTGGATGACATGCTGCTGGACT
 GTCGTTCCGTGGCCAACTTGTGGGCTGAGAACTTACCACGATCTTACCCGGATGGGAAAGTGCTA
 CACATTTAACTCTGGCGTGTATGGGCGAGAGCTGCTACCACTACTAGGGGTGGCATGGGCAATGGGCTG
 GACATCATGCTGGACGTGCAGCAGGAGGAATCTACCTGTGTGGAGGGACAATGAGGAGACCCGTTTG
 AGGTGGGGATCCGAGTGCAGATCCACAGCCAGGAGGAGCCGCCATCATCGATCAGCTGGGCTTGGGGT
 GTCCCGGGTACCAGACCTTTGTTTCTTCCAGCAGCAGCAGCTGAGCTTCTGCCACCGCCCTGGGGC
 GATTGCAGTTCAGCATCTCTGAACCCAACTATGAGCCAGAGCCCTCTGATCCCTAGGCTCCCCAGCC
 CCAGCCCCAGCCCTCCCTATACCCTTATGGGGTGTGCGCTGGCCTGCGAAACCCGCTACGTGGCTCGAA
 GTGCGGCTGCCGAATGGTGTACATGCCAGGCGAGCTGCCAGTGTGCAGCCCCAGCAGTACAAGAAGTGT
 GCCACCCGCGCATAGATGCCATGCTTCGCAAGGACTCGTGCCTGCCCAACCCGTGCCAGCAGCAGC
 GCTACGCCAAGGAGCTCTCCATGGTGGGATCCCGAGCCGCGCCGCGCGCTTCTGCCCCGAAAGT
 CAACCGCAGCGAGGCTACATCGCGGAGAACGTGCTGGCCCTGGACATCTTCTTTGAGGCCCTCAACTAT
 GAGACCGTGGAGCAGAAGAAGGCCTATGAGATGTGAGAGCTGCTTGGTGCATTGGGGGCCAGATGGGGC
 TGTTTCATCGGGGCCAGCCTGCTCACCATCCTCGAGATCCTAGACTACCTCTGTGAGGTGTTCCGAGACAA
 GGTCTGGGATATTTCTGGAACCGACAGCACTCCCAAAGGCACTCCAGCACCAATCTGACCTCCACCCC
 TCCCTGTGCCGTACCAAGACTCTCTCCGCTCCACCGCACCTGCTACCTTGTACACAGCTCTAGACC
 TGCTGTCTGTCTCGGAGCCCCGCCCTGACATCCTGGACATGCCTAGCCTGCACGTAGCTTTCCGTC
 TTCACCCCAAATAAAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219013 representing NM_020322
 Red=Cloning site Green=Tags(s)

MKPTSGPEEARPPASDIRVFASNCMSHGLGHVFGPGLSLRRGMWAAAVVLSVATFLYQVAERVRYREF
 HHQTALDERESHRLIFPAVTLNINPLRRSRLTPNDLHWAGSALLGLDPAEHAFLRALGRPPAPPGFMP
 SPTFDMAQLYARAGHSLDMLLDCRFRGQPCGPENFTTIFTRMGKCYTFNSGADGAELLTTRGGMGNGL
 DIMLDVQEEYLPVWRDNEETPFVVGIRVQIHSQEEPIIDQLGLGVSPGYQTFVSCQQQLSFLPPPWG
 DCSSASLNPNEYEPSPDPLGSPSPSPPPYTLMGCRACETRYVARKCGCRMVYMPGDVPCSPQYKNC
 AHPAIDAMLRKDSACPNPCASTRYAKELSMVRIPSRAAARFLARKLNREAYIAENVLALDIFFEALNY
 ETVEQKKAYEMSELLGDIGGQMGFLFIGASLLTILEILDYLCVFRDKVLGYFVNRQHSQRHSSTNLTSH
 SLCRHQDSLRLPHLLPCHTALDLLSVSSEPRPDILDMPSLHVAFPSSPQIKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

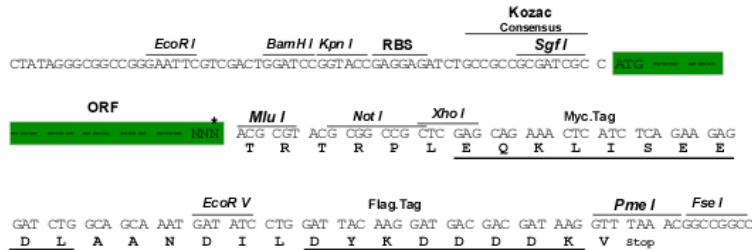
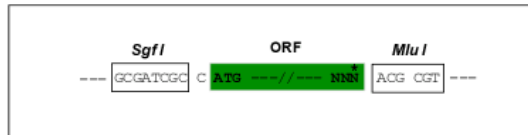
https://cdn.origene.com/chromatograms/mk8066_e03.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_020322

ORF Size: 1629 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_020322.3](#)
RefSeq Size: 1671 bp

RefSeq ORF: 1632 bp

Locus ID: 9311

UniProt ID: [Q9UHC3](#)

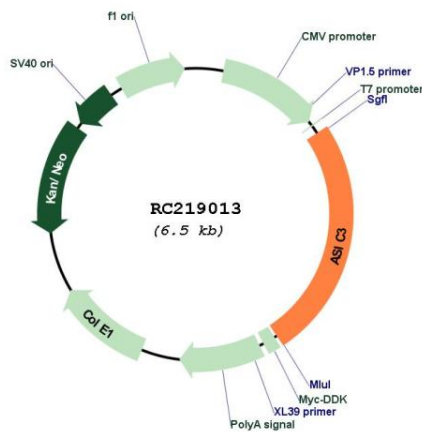
Cytogenetics: 7q36.1

Protein Families: Druggable Genome, Ion Channels: Other

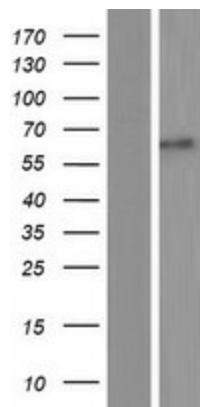
MW: 60.2 kDa

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]

Product images:



Circular map for RC219013



Western blot validation of overexpression lysate (Cat# [LY412562]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219013 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).