

## Product datasheet for **RC222273**

### ASIC3 (NM\_020321) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASIC3 (NM_020321) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ASIC3
Synonyms:	ACCN3; DRASIC; SLNAC1; TNaC1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC222273 representing NM\_020321  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCCACCTCAGGCCAGAGGAGGCCGGCGGCCAGCCTCGGACATCCGCGTGTTCGCCAGCAACT  
 GCTCGATGCACGGCTGGGCCACGTCTTCGGGCCAGGCAGCCTGAGCCTGCGCCGGGGATGTTGGCAGC  
 GGCCGTGGTCTGTCAAGTGGCCACCTTCTCTACCAAGTGGCTGAGAGGGTGCCTACTACAGGGAGTTC  
 CACCACCAGACTGCCCTGGATGAGCGAGAAAGCCACCGGCTCATCTTCCCGGCTGTACCCTGTGCAACA  
 TCAACCCACTGCGCCGCTCGCGCTAACGCCAACGACCTGCACTGGGCTGGGTCTGCGCTGCTGGGCT  
 GGATCCCGCAGAGCAGCCGCTTCTGCGCGCCCTGGGCCGGCCCTGCACCGCCCGGCTTCATGCC  
 AGTCCACCTTTGACATGGCGAACTCTATGCCCGTGTGGGCACTCCCTGGATGACATGCTGCTGGACT  
 GTCGTTCCGTGGCCAACCTTGTGGGCTGAGAACTTACCACGATCTTACCCGGATGGGAAAGTCTA  
 CACATTTAACTCTGGCGTGTATGGGCGAGAGCTGCTCACCCTACTAGGGGTGGCATGGGCAATGGGCTG  
 GACATCATGCTGGACGTGCAGCAGGAGGAATATCTACCTGTGGAGGGACAATGAGGAGACCCGTTTG  
 AGGTGGGGATCCGAGTGCAGATCCACAGCCAGGAGGAGCCGCCATCATCGATCAGCTGGGCTTGGGGT  
 GTCCCGGGTACCAGACCTTTGTTTCTTCCAGCAGCAGCAGCTGAGCTTCTGCCACCGCCCTGGGGC  
 GATTGCAGTTCAGCATCTCTGAACCCAACTATGAGCCAGAGCCCTCTGATCCCTAGGCTCCCCAGCC  
 CCAGCCCCAGCCCTCCCTATACCCTTATGGGGTGTGCGCTGGCCTGCGAAACCCGCTACGTGGCTCGAA  
 GTGCGGCTGCCGAATGGTGTACATGCCAGGCGAGCTGCCAGTGTGCAGCCCCAGCAGTACAAGAAGTGT  
 GCCACCCGCGCATAGATGCCATGCTTCGCAAGGACTCGTGCCTGCCCAACCCGTGCCCAGCACGC  
 GCTACGCCAAGGAGCTCTCCATGGTGGGATCCCGAGCCGCGCCGCGGCTTCTGGCCCGCAACT  
 CAACCGCAGCGAGGCTACATCGCGGAGAAGCTGCTGGCCCTGGACATCTTCTTTGAGGCCCTCAACTAT  
 GAGACCGTGGAGCAGAAGAAGCCCTATGAGATGTGAGAGTGTGTTGGTACATTGGGGGCCAGATGGGGC  
 TGTTTCATCGGGGCCAGCCTGCTCACCATCCTCGAGATCCTAGACTACCTCTGTGAGGTGTTCCGAGACAA  
 GGTCTGGGATATTTCTGGAACCGACAGCACTCCCAAAGGCACTCCAGCACCAATCTGCTTCAGGAAGGG  
 CTGGGCAGCCATCGAACCAAGTCCCCACCTCAGCCTGGGCCCCAGCACTCTGCTCTGTTCCGAAGACC  
 TCCACCCCTCCCTGTCCGTACCAAGACTCTCTCCGCTCCACCCGACCTGTACCTTGTACACAG  
 CTCTAGACCTGTGTCTGTCTCGGAGCCCCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222273 representing NM\_020321  
 Red=Cloning site Green=Tags(s)

MKPTSGPEEARPPASDIRVFASNCMSHGLGHVFGPGSLSLRRGMWAAAVLSVATFLYQVAERVRYREF  
 HHQTALDERESHRLIFPAVTLNINPLRRSRLTPNDLHWAGSALLGLDPAEHAFLRALGRPPAPPGFMP  
 SPTFDMAQLYARAGHSLDDMLLDCRFRGQPCPENFTTIFTRMGKCYTFNSGADGAELLTTTRGGMGNL  
 DIMLDVQEEYLPVWRDNEETPFEVGIHQEPEPIIDQLGLVSPGYQTFVSCQQQLSFLPPPWG  
 DCSSASLNPNYEPSPDPLGSPSPSPPYTLMGCRACETRYVARKCGCRMVYMPGDVPVCSPPQYKNC  
 AHPAIDAMLRKDCACPNPCAstryAKELSMVRIPSRAAARFLARKLNREAYIAENVLALDIFFEALNY  
 ETVEQKKAYEMSELLGDIQQMGLFIGASLLTILEILDYLCEVFRDKVLGYFWRNQRHSSTNLLQEG  
 LGSHRTQVPHLSLGPSTLLCSEDLPLPVPSPRLSPPPTAPATLSHSSRPVAVLGVGAPP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

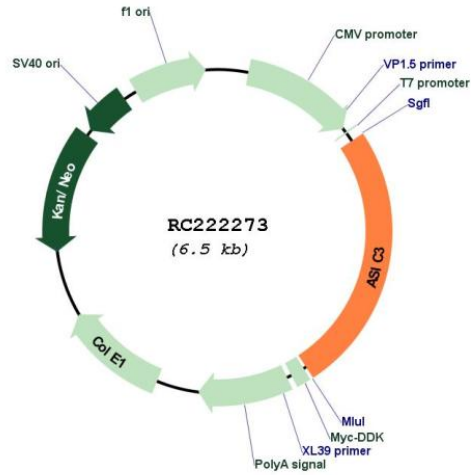
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_020321
<b>ORF Size:</b>	1647 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_020321.3</a> , <a href="#">NP_064717.1</a>
<b>RefSeq Size:</b>	2314 bp
<b>RefSeq ORF:</b>	1650 bp
<b>Locus ID:</b>	9311
<b>UniProt ID:</b>	<a href="#">Q9UHC3</a>
<b>Cytogenetics:</b>	7q36.1
<b>Domains:</b>	ASC
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>MW:</b>	60.5 kDa
<b>Gene Summary:</b>	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]