

## Product datasheet for **MG227272**

### **Asic3 (NM\_183000) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Asic3 (NM_183000) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Asic3
Synonyms:	Accn3; AW742291; DRASIC; SLNAC1; TNAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227272 representing NM\_183000  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAACCTCCCTCAGGACTGGAGGAGGCCAGCGGCACAGGCCTCAGACATCCGGGTGTTCCGCCAAC  
 GCTGCACGATGCATGGTTTGGGCCACATCTTGGCCCTGGAGGCCTGACCCTGCGCCGTGGGCTGTGGC  
 CACAGCTGACTCCTGTGCTGGCGCCTTCTCTACCAGGTGGCTGAGCGGGTTCGCTACTATGGGGAG  
 TTCCACCATAAGACCACCCTGGATGAGCGTGAGAGCCACCAGTTACCTCCCAGCTGCTACTTTGTGTA  
 ACATCAATCCCCTGCGCCGCTCACGCCTCACACCCAATGACTTGCCTGGCCGGAACGGCACTGCTGGG  
 TCTGGACCCTGCTGAACATGCTGCCTACCTTCGTGCCCTGGGCCAGCCCCCTGCACCACCTGGCTTCATG  
 CCCAGTCCGACTTTTGACATGGCACAACCTACGCCAGAGCCGGCCACTCCCTTGAGGACATGTTGCTGG  
 ACTGCCGATACCGTGGCCAGCCCTGTGGACCTGAGAACTCACAGTGATTTTCACTCGAATGGGGCAATG  
 CTACACCTTCAACTCTGGTGGCCAGGGGCGAGCTGCTCACCCTCCTAAGGGCGGTGCTGGCAATGGA  
 CTGGAGATTATGCTGGATGTACAGCAGGAGGAGTATCTGCCATCTGGAAGGACATGGAAGAGACCCAT  
 TTGAGGTGGGGATCCGAGTGCAGATCCACGGCCAGGAGGAACCCCTGCCATTGACCAGCTGGGCTTCGG  
 TGCTGCCCCAGGCCACCAGACTTTTGTGTCTGCCAGCAACAGCAACTGAGTTTCTGCCACCACCTGG  
 GGTGACTGCAATACCGCATCTGTGGATCCCGACTTTGATCCAGAGCCCTCTGATCCCCTGGGTTCCCTA  
 GCTCCAGCCCTCCTTATAGCTTAATAGGGTGTGCGCTGGCCTGTGAGTACGCTATGTGGCTCGGAAGTG  
 CGGATGTGAATGATGCATATGCCTGAAAACCTCCAGTGTGCAGCCCCAGCAGTACAAGGACTGTGCC  
 AGCCCAGCTCTGGACGCTATGCTGCGAAAGGACACTTGTGTCTGTCCCAACCCGTGCGCCGACTAACGCT  
 ATGCCAAGGAGCTCTCCATGGTGGGATTCACAGCCGCGTTCAGCTCGTACCTGGCCCGAAATACAA  
 CGGTAGCGAGACTTACATCACGGAGAATGTACTGGTTCTGGATATCTTCTTTGAAGCCCTCAACTATGAG  
 GCCGTGGAACAAAAGGCAGCTTATGAAGTGTGCGAGTTGCTGGGAGACATTGGGGACAGATGGGACTGT  
 TTATCGGAGCCAGCCTGCTTACCATCCTCGAGATCCTCGACTACCTCTGTGAGGTTTTTCAAGACAGAGT  
 CCTGGGTACTTCTGGAACAGAAGGAGCTCTCAAAGGCGCTCTGGCAACACTCTGCTCCAGGAAGAGTTG  
 AATGGGCATCGAACACATGTTCCCATCTCAGCCTAGGCCCCAGGCTCCTACCGCTCCCAGTGTGTCA  
 CCAAGACTCGTGCCTCCACCGTACCTGTTACCTCGTACAAGGCTC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG227272 representing NM\_183000  
 Red=Cloning site Green=Tags(s)

MKPPSGLEEAQRRQASDIRVFANSCMHLGHIFGPGGLTLRRGLWATAVLLSLAFLYQVAERVRYIGE  
 FHHKTTLDERESHQLTFPAVTLNINPLRRSRLTPNDLHWAGTALLGLDPAEHAAYLRALGQPPAPPFGM  
 PSPTFDMAQLYARAGHSLEDMLLDCRYRQPCGPENFTVIFTRMGQCYTFNSGAQGAELLTPKGGAGNG  
 LEIMLDVQEEYLPiWKDMEETPFVEGIRVQIHGQEEPPAIDQLGFGAAPGHQTFVSCQQQLSFLPPPW  
 GDCNTASVDPDFDPEPSDPLGSPSSPPYSLIGCRLACESRYVARKCGCRMHMPGNPVCSPQYKDC  
 SPALDAMLRKDTCVPCNPATTRYAKELSMVRIPSRASARYLARKYNRSEYITENVLVDIFFEALNYE  
 AVEQKAAYEVSELLGDIQQMGLFIGASLLTILEILDYLCEVFQDRVLGYFWRNRSSQRRSGNTLLQEEL  
 NGRHRTVPHLSLGP RPPTAPSAVTKTLAASHRTCYLVTRL

**TRTRPLE** – GFP Tag – V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1187\\_a05.zip](https://cdn.origene.com/chromatograms/ja1187_a05.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_183000

**ORF Size:** 1590 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\\_183000.2](#), [NP\\_892045.2](#)

**RefSeq Size:** 1978 bp

**RefSeq ORF:** 1593 bp

**Locus ID:** 171209

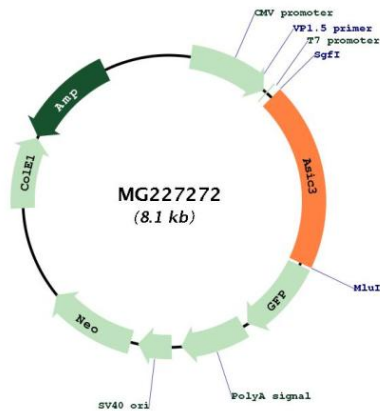
**UniProt ID:** [Q6X1Y6](#)

**Cytogenetics:** 5 A3

**Gene Summary:**

Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. Generates a biphasic current with a fast inactivating and a slow sustained phase. In sensory neurons is proposed to mediate the pain induced by acidosis that occurs in ischemic, damaged or inflamed tissue. May be involved in hyperalgesia. May play a role in mechanoreception. Heteromeric channel assembly seems to modulate channel properties.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG227272