

Product datasheet for **MG221087**

Asic2 (NM_001034013) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asic2 (NM_001034013) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Asic2
Synonyms:	Accn1; ACIC2; BNaC1; BNaC1a; BNC1; Mdeg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221087 representing NM_001034013
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACCTCAAGGAGAGCCCCAGCGAGGGCAGCCTGCAACCTTCCAGCATCCAGATCTTCGCCAACACCT
 CTA CTCTCCATGGCATCCGCCACATCTTCGTGTATGGGCCGTGACCATCCGGCGTGTGCTTTGGCAGT
 GGCTTCGTGGGATCTCTGGGCCTGCTGCTGGTGGAGAGCTCGGAGAGAGTATCCTACTATTTCTCATAT
 CAGCATGTTACCAAGGTGGATGAAGTGGTGGCCAGAGCCTGGTCTTCCAGCTGTGACCTCTGCAACC
 TCAATGGCTTCCGGTTCTCCAGGCTTACCACCAACGACTTGACCACGCTGGGGAGTTGTGGCCCTGTT
 GGATGTCAACTTGCAGATTCTGACCCGCATCTGGCGGACCCACCGTGTGGAGGCCCTCCGACAGAAG
 GCCAATTCAAACACTACAAACCGAAGCAGTTCAGCATGCTGGAGTTCCTGCACCGGTAGGCCATGACC
 TGAAGGATATGATGCTCTACTGCAAGTTCAAGGGGCAGGAGTGTGGGCATCAAGACTTCACCACAGTGT
 TACAAAATATGGGAAGTGTACATGTTAACTCAGGCGAGGATGGCAAGCCTCTGCTCACCACGGTCAAG
 GGGGGGACGGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAAGATGAGTACCTGCCATCTGGGGAG
 AGACAGAGGAAACAACGTTTGAAGCAGGAGTGAAGGTTTCAGATCCACAGCCAGTCTGAGCCACCTTTCAT
 CCAAGAGCTGGGCTTTGGGGTGGCTCCGGGGTTCAGACCTTCGTGGCCACACAAGAGCAGAGGCTCACA
 TATCTGCCCCCGCGTGGGGGAGTGCCGGTCTCAGAGATGGGACTCGACTTCTTCTGTTTACAGCA
 TCACAGCTGTGGATCGACTGTGAGACCCGCTACATCGTGGAGAAGTGAAGTCCGCATGGTCCACAT
 GCCAGGGGATGCCCTTCTGCACCCCTGAGCAGCACAAGGAGTGTGCAGAGCCAGCCCTCGGCTTACTG
 GCAGAAAAGGACAGCAATTACTGTCTCTGCAGGACCCCTGCAACCTGACCCGCTACAACAAGAGCTCT
 CCATGGTAAAGTCCCCAGCAAGACGTCAGCCAAAGTACCTGGAGAAGAAATTTAACAAATCGGAAAAATA
 TATCTCCGAGAACATTCTTGTCTGGATATATTTTTGAGGCGCTCAATTACGAGACAATTGAACAGAAG
 AAGGCGTATGAAGTTGCTGCCTTACTTGGTGCATTGGTGGTCAAATGGGATTGTTATTGGTGTAGTA
 TCCTTACAATACTAGAGCTCTTTGATTACATTTACGAGCTGATCAAAGAGAAGCTATTAGACCTGCTGG
 CAAAGAAGAAGAGGAAGGGAGCCATGATGAGAACATGAGCACCTGCGACACAATGCCAAACCACTCCGAA
 ACCATCAGCCACACTGTGAACGTGCCCTGCAGACAGCTTTGGGCACCCTGGAGGAGATTGCCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221087 representing NM_001034013
 Red=Cloning site Green=Tags(s)

MDLKESPSEGLQPSSIQIFANTSTLHGIRHIFVYGPLTIRRVLWAVAFVGSGLLLVESSERVSYFYSY
 QHVTKVDEVVAQSLVFPVAVTLCNLNGFRFSRLTTNDLYHAGELLALLDVNLQIPDPHLADPTVLEALRQK
 ANFKHYKPKQFSMLEFLHRVGHDLKDMMLYCKFKGQECGHQDFTTVFTKYGKCYMFNSGEDGKPLLTVK
 GGTGNLEIMLDIQQDEYLPWGETEETFEAGVKVQIHSQSEPPFIQELGFGVAPGFQTFVATQEQRLLT
 YLPPPWGECSRSEMGLDFPVSITACRIDCETRYIVENCNCRMVHMPGDAPFCTPEQHKECAEPALGGL
 AEKDSNYCLCRTPCNLTRYNKELSMVKIPSKTSAKYLEKKFNKSEKYISENILVLDIFFEALNYETIEQK
 KAYEVAALLGDIGQMGLFIGASILTILELFDYIYELIKEKLLDLLGKEEEEGSHDENMSTCDTMPNHSE
 TISHTVNVPLQ TALGTLEEIAC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001034013

ORF Size: 1536 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_001034013.2](#), [NP_001029185.1](#)

RefSeq Size: 2643 bp

RefSeq ORF: 1539 bp

Locus ID: 11418

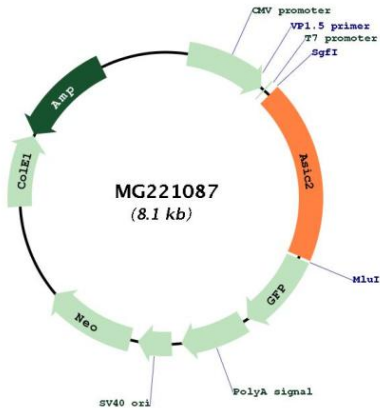
UniProt ID: [Q925H0](#)

Cytogenetics: 11 48.43 cM

Gene Summary:

Cation channel with high affinity for sodium, which is gated by extracellular protons and inhibited by the diuretic amiloride. Also permeable for Li(+) and K(+). Generates a biphasic current with a fast inactivating and a slow sustained phase. Heteromeric channel assembly seems to modulate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221087