

## Product datasheet for **MG220993**

### Asic2 (NM\_007384) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asic2 (NM_007384) 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:**

>MG220993 representing NM\_007384  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCCGGAGCGCGGAGCCCGCTGCCGGCAGCCGCTCAGCGGCCGGGACGCTTCCGTATGGCCC  
 GCGAGCAGCCGGCGCCCGCGCGGTGGCGCAGCTAGGCAGCCGGGGGCGACCGAGCGCGATCGGGA  
 GCTGCAGGGGCCAGGGTCCGCCAGGGGGCGGCCGCTCCTGAGTCGCACTAAATTGCACGGGCTGCGG  
 CACATGTGCGGGGGCGCACGGCGGGAGGCTCTTTCCAGCGCGGGCGCTGTGGGTGCTGGCCTTCT  
 GCACGTCCCTGGCTTGTGTTGCTGCTGCTCGAACCCGCTGCTACTGGCTCAGTTTCCCGTCACA  
 CACGCGAGTGCACCGGAGTGGAGCCGACGTCGCCGTTCCCGCTGTCACCGTGTGCAACAACAACCCC  
 CTGCGCTTCCCGCCTCTCAAGGGGGACCTCTACTACGCGGGCCACTGGCTAGGACTGCTGCTGCCCA  
 ACCGCACCGCGCCCGCTGGTCAGCGAGCTGCTGCGGGGCGACGAGCCGCGCAGACAGTGGTCCGCAA  
 GCTGGCCGACTTCCGCTCTTCTGCCCGCGCCACTTCGAGGGCATCAGCGCTGCCTTATGGACCGT  
 CTGGGCCACAGCTGGAGGACATGCTGCTCTCTGCAAGTACCGGGCGAGCTCTGTGGCCGCACAAC  
 TCTCTCAGTGTTCACAAAATATGGGAAGTGTACATGTTAACTCAGGCAGGATGGCAAGCCTCTGCT  
 CACCACGGTCAAGGGGGGACGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAAGATGAGTACCTG  
 CCCATCTGGGGAGAGACAGAGAAACAACGTTTGAAGCAGGAGTGAAGTTTCCAGACCTTCGTGGCCACAAGA  
 AGCCACCTTTCATCAAGAGCTGGGCTTTGGGGTGGCTCCGGGTTCCAGACCTTCGTGGCCACAACA  
 GCAGAGGCTCACATATCTGCCCCCGCTGGGGGAGTCCGGTCTCAGAGATGGGACTCGACTTCTTT  
 CCTGTTTACAGCATCACAGCTGTCGGATCGACTGTGAGACCCGCTACATCGTGGAGAAGTGTAACTGCC  
 GCATGGTCCACATGCCAGGGGATGCCCTTTCTGCACCCCTGAGCAGCACAAGGAGTGTGCAGAGCCAGC  
 CCTCGGCTTACTGGCAGAAAAGGACAGCAATTACTGTCTCTGCAGGACACCCTGCAACCTGACCCGCTAC  
 AACAAAGAGCTCTCCATGGTAAAGATCCCAGCAAGACGTCAGCCAAGTACCTGGAGAAGAAATTTAACA  
 AATCGGAAAAATATATCTCCGAGAACATTTCTGTTCTGGATATATTTTTGAGGCGCTCAATTACGAGAC  
 AATTGAACAGAAGAAGCGTATGAAGTTGCTGCCTTACTTGGTGACATTGGTGGTCAAATGGGATTGTT  
 ATTGGTGTAGTATCCTTACAATACTAGAGCTTTTGATTACATTTACGAGCTGATCAAAGAGAAGCTAT  
 TAGACCTGCTGGCAAAGAAGAAGGAAGGGAGCCATGATGAGAACATGAGCACCTGCGACACAATGCC  
 AAACCACTCCGAAACCATCAGCCACACTGTGAACGTGCCCTGCAGACAGCTTTGGGCACCCTGGAGGAG  
 ATTGCCTGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG220993 representing NM\_007384  
 Red=Cloning site Green=Tags(s)

MSRSGGARLPATALSGPGRFRMAREQPAPA AVAAARQPGGDRSGDRELQGPVARRGRPSLSRTKLHGLR  
 HMCAGRTAAGGSFQRRALWVLAFC TSLG LLLSWSSNRLLYWL SFPSTRVHREWSRQLPFPVAVTVCNNP  
 LRFPRLSKGDLYYAGHWLGLLLPNRTARPLVSELLRGDEPRRQWFRKLADFRLFLPPRHFEGISAAFMDR  
 LGHQLEDMLLSCKYRGELCGPHNFSSVFTKYGKCYMFNSGEDGKPLLTTVKGGTNGLEIMLDIQQDEYL  
 PIWGETEETTFEAGVKVQIHSQSEPPFIQELGFGVAPGFQTFVATQEQLTYLPPPWGECRSSEMGLDFF  
 PVYSITACRIDCETRYIVENCNCRMVHMPGDAPFCTPEQHKECAEPALGLLAEKDSNYCLCRTPCNLTRY  
 NKELSMVKIPSKTSAKYLEKKFNKSEKYI SENILVLDIFFEALNYETIEQKKAYEVAALLGDIGGQMLF  
 IGASILTILELFDYIYELIKEKLLDLLGKEEEEGSHDENMSTCDTMPNHSETISHTVNVPLQTALGTLEE  
 IAC

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<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_007384.3</a> , <a href="#">NP_031410.1</a>
<b>RefSeq Size:</b>	3022 bp
<b>RefSeq ORF:</b>	1692 bp
<b>Locus ID:</b>	11418
<b>UniProt ID:</b>	<a href="#">Q925H0</a>
<b>Cytogenetics:</b>	11 48.43 cM
<b>Gene Summary:</b>	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]