OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR220993

Asic2 (NM_007384) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asic2 (NM_007384) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asic2
Synonyms:	Accn1; ACIC2; BNaC1; BNaC1a; BNC1; Mdeg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR220993 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCGGAGCGGCGGAGCCCGGCTGCCGGCGACCGCGCTCAGCGGCCCGGGACGCTTCCGTATGGCCC
GCGAGCAGCCGGCGCCCGCGGCGGTGGCGGCAGCTAGGCAGCCCGGGGGCGACCGGAGCGGCGATCGGGA
GCTGCAGGGGCCAGGGGTCGCCCGCAGGGGGCGGCCGTCCCTGAGTCGCACTAAATTGCACGGGCTGCGG
CACATGTGCGCGGGGCGCACGGCGGCGGGAGGCTCTTTCCAGCGGCGGGCGCTGTGGGTGCTGGCCTTCT
GCACGTCCCTTGGCTTGCTGTTGTCCTGGTCCTCGAACCGCCTGCTCTACTGGCTCAGTTTCCCGTCACA
CACGCGAGTGCACCGCGAGTGGAGCCGCCAGCTGCCGTTCCCCGCTGTCACCGTGTGCAACAACAACCCC
CTGCGCTTCCCGCGCCTCTCCAAGGGGGACCTCTACTACGCGGGCCACTGGCTAGGACTGCTGCTGCCCA
ACCGCACCGCGCGCCCGCTGGTCAGCGAGCTGCTGCGGGGCGACGAGCCGCGCAGACAGTGGTTCCGCAA
GCTGGCCGACTTCCGCCTCTTCCTGCCGCCGCGCCACTTCGAGGGCATCAGCGCTGCCTTCATGGACCGT
CTGGGCCACCAGCTGGAGGACATGCTGCTCTCCTGCAAGTACCGGGGCGAGCTCTGTGGCCCGCACAACT
TCTCCTCAGTGTTTACAAAATATGGGAAGTGTTACATGTTTAACTCAGGCGAGGATGGCAAGCCTCTGCT
CACCACGGTCAAGGGGGGGACGGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAAGATGAGTACCTG
CCCATCTGGGGAGAGACAGAGGAAACAACGTTTGAAGCAGGAGTGAAGGTTCAGATCCACAGCCAGTCTG
AGCCACCTTTCATCCAAGAGCTGGGCTTTGGGGTGGCTCCGGGGTTCCAGACCTTCGTGGCCACACAAGA
GCAGAGGCTCACATATCTGCCCCCGCCGTGGGGGGAGTGCCGGTCCTCAGAGATGGGACTCGACTTCTTT
CCTGTTTACAGCATCACAGCCTGTCGGATCGACTGTGAGACCCGCTACATCGTGGAGAACTGTAACTGCC
GCATGGTCCACATGCCAGGGGATGCCCCTTTCTGCACCCCTGAGCAGCACAAGGAGTGTGCAGAGCCAGC
CCTCGGCTTACTGGCAGAAAAGGACAGCAATTACTGTCTCTGCAGGACACCCTGCAACCTGACCCGCTAC
AACAAAGAGCTCTCCATGGTAAAGATCCCCAGCAAGACGTCAGCCAAGTACCTGGAGAAGAAATTTAACA
AATCGGAAAAATATATCTCCGAGAACATTCTTGTTCTGGATATATTTTTTGAGGCGCTCAATTACGAGAC
AATTGAACAGAAGAAGGCGTATGAAGTTGCTGCCTTACTTGGTGACATTGGTGGTCAAATGGGATTGTTC
ATTGGTGCTAGTATCCTTACAATACTAGAGCTCTTTGATTACATTTACGAGCTGATCAAAGAGAAGCTAT
TAGACCTGCTTGGCAAAGAAGAAGAGGAAGGGAGCCATGATGAGAACATGAGCACCTGCGACACAATGCC
AAACCACTCCGAAACCATCAGCCACACTGTGAACGTGCCCCTGCAGACAGCTTTGGGCACCCTGGAGGAG
ATTGCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

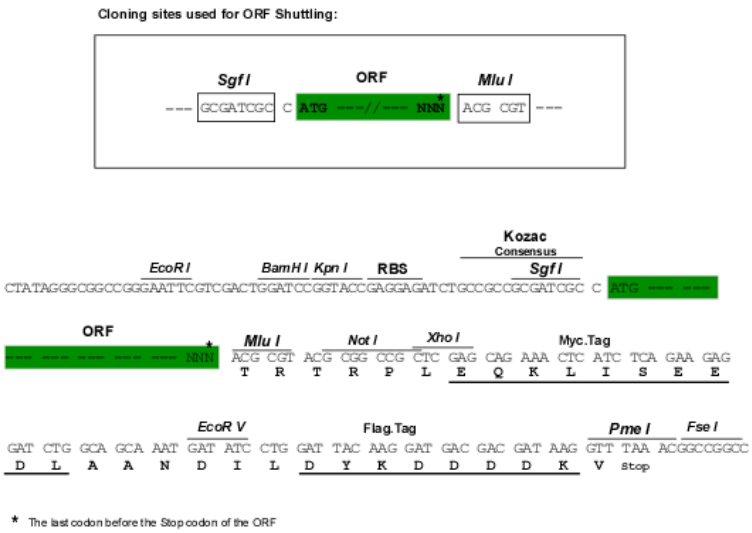
>MR220993 protein sequence
Red=Cloning site Green=Tags(s)

MSRSGGARLPATALSGPGRFRMAREQPAPAAVAAARQPGGDRSGDRELQGPGVARRGRPSLSRTKLHGLR
HMCAGRTAAGGSFQRRALWVLAFCTSLGLLLSWSSNRLLYWLSFPSHTRVHREWSRQLPFPAVTVCNNNP
LRFPRLSKGDLYYAGHWLGLLLPNRTARPLVSELLRGDEPRRQWFRKLADFRLFLPPRHFEGISAAFMDR
LGHQLEDMLLSCKYRGELCGPHNFSSVFTKYGKCYMFNSGEDGKPLLTTVKGGTGNGLEIMLDIQQDEYL
PIWGETEETTFEAGVKVQIHSQSEPPFIQELGFGVAPGFQTFVATQEQRLTYLPPPWGECRSSEMGLDFF
PVYSITACRIDCETRYIVENCNCRMVHMPGDAPFCTPEQHKECAEPALGLLAEKDSNYCLCRTPCNLTRY
NKELSMVKIPSKTSAKYLEKKFNKSEKYISENILVLDIFFEALNYETIEQKKAYEVAALLGDIGGQMGLF
IGASILTILELFDYIYELIKEKLLDLLGKEEEEGSHDENMSTCDTMPNHSETISHTVNVPLQTALGTLEE
IAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007384

ORF Size: 1692 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_007384.3, NP_031410.1

RefSeq Size: 3024 bp

RefSeq ORF: 1692 bp

Locus ID: 11418

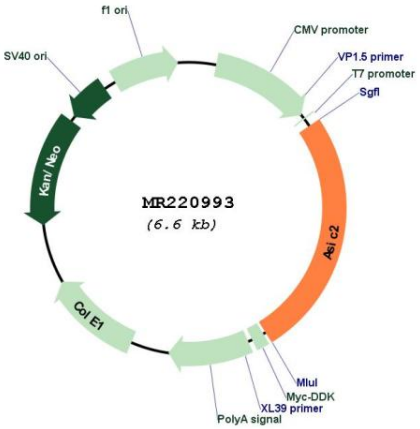
UniProt ID: Q925H0

Cytogenetics: 11 48.43 cM

MW: 63.2 kDa

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 MR220993