

## Product datasheet for **MR223851**

### Asic5 (NM\_021370) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asic5 (NM_021370) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asic5
Synonyms:	Accn5; Blinac; Inac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR223851 representing NM\_021370  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAACATACTGAGAAATCACAAGTGCACGCGGAGAAAGGACTCTTAGGAAAGATAAAACGTTACCTCT  
 CAAAGAGACCACTGCCATCTCCAAGTACCGGAAGAAGTTCGATCAAGACTTTGCCATGTCCACTTCCTT  
 TCATGGGATACATAATATTGCCCAAGCAAGCAAAAGTTCGAAAGGTGATCTGGCTGGCTGTGGTGTGCTG  
 GGCTCTGTCTCGCTCTTGGTGTGGCAAATCTACAGTCGTTTGGTCAATTACTTCACATGGCCAACGACAA  
 CATCTATAGAAGTTCAGTATGTGGAAAAATCGAGTTCAGCTGTGACACTCTGTAACCTGAACAGATT  
 CCAAACAGAAGCAGTATCTAGATTTGGCATCATTTTCTTCTGTGGGACATAGTCTCAAAGTCTCCGC  
 CTTCAGGAAATCAGTGCCAACAACACTGGCTCTCCAGAGACCTTAGATTTTGTACGAATACCAAAACT  
 TCAGCATTACAGAGTTTGTCAAGAACAATGGTTTTTATCTCAATAACGACACTTTGGTGCAGTGTGAGTT  
 CTTTGGCAAAACATGCAGTCAAAGGATTTCAAACACGCTTTACTGAATATGGGAATTGCTTCACTTTT  
 AACTACGGTGAGAATATCAAACAAGAATAAAGTGAGTGTGCCGAAGAGGCTTAAAGCTGCTCCTCG  
 ACGTCCATCAGGAGGAATCACTGACAACCCAGTCCCTGGTTTTGCTGATGCTGGTGTCACTTTGTTAT  
 TCACTACCAAAGAAGGAGCCACAGTTTGTAGGCTTAGGTTTGTCTTCTCCTGTGGGAATGCATGCACGG  
 GTGACCATCCGCCAAGTGAAGACGGTCCACCAGGAGTACCCATGGGGAGAATGCAATCCCAACATCAAGC  
 TGAGAACTTCATTACCTACAGCACTTACGGGTGTCTGAAGGAGTGCAAAGCCCGGCATATACAAAGGCT  
 GTGTGGATGTCTGCCCTTCTGCTTCCAGGAAATGGTGTAGAGTGTGACCTACTAGAATACTACAAGTGT  
 GTGTCTCCATCCTTGATCACATCGAGCGTAAGGGACTATGCACGATGGGAACACACAACCTCCAGCTGCC  
 CTGTGTCTGTGAGGAAACAGAATACCCAGCTACTGTTTCTTACTTTCCCAAGTCAAAGAGCAAC  
 AAGGTTTCTTGCCAAGAATTGAATCAAAGCCAAGAATATATCCGGGAGAATCTCGTGAACATTGAATA  
 AACTATAGCGACTTAAACTATAAGATAACGCAGCAACAGAAGGCCGTGAGTGTGCCTGAGTTACTTGCAG  
 ATGTTGGCGGTACAGTGGGACTGTTCTGTGGAGCTAGTTTATTACAATTATAGAATTATTGAATATTT  
 TTTACCAATTTCTACTGGTACTATTTTCTTTTGTGAAAATACTTGAACGATACAGCGGACTTCT  
 CCACCTCAGGCAGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223851 representing NM\_021370  
 Red=Cloning site Green=Tags(s)

MEHTEKSVHAEKGLLGKIKRYLSKRPLPSPTDRKKFDQDFAMSTSFHGIHNIHQNKVVRKVIWLAVVL  
 GSVSLLVWQIYSRLVNYFTWPTTTSIEVQYVEKIEFPAVTLNLRNFQTEAVSRFGIIFFLWDIVSKVLR  
 LQEI SANNTGSPELDFVTNHQNF SITEFVKNNGFYLNNDLVHCEFFGKTCSPKDFKHVFTEYGNCFTE  
 NYGENIQNKVSVSGRGLKLLLDVHQEEFTDNPVPGFADAGVIFVIHSPKKEPQFDGLGLSSPVMHAR  
 VTIRQLKTVHQEYPWGECPNPKLRNFITYSTYGLCKECKARHIQRLCGCLPFLLPNGVECDLLEYNC  
 VSPILDHIERKGLCTMGTHNSSCPVSCEETEYPATVSYSTFPQRATRFLAKKLNQSQEYIRENLVNI  
 EINYSDLNLIKITQQKAVSVPELLADVGGQLGLFCGASLITIEIEIEYFFTNFYWVLIFFLLKILETIQRTS  
 PPQAV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9016\\_e05.zip](https://cdn.origene.com/chromatograms/mm9016_e05.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_021370

**ORF Size:** 1485 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\\_021370.2](#), [NP\\_067345.1](#)

**RefSeq Size:** 1657 bp

**RefSeq ORF:** 1488 bp

**Locus ID:** 58170

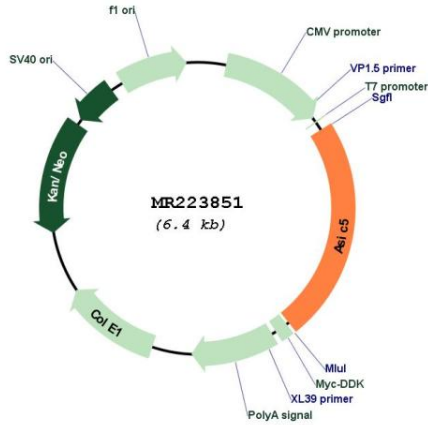
**UniProt ID:** [Q9R0Y1](#)

**Cytogenetics:** 3 E3

**MW:** 57 kDa

**Gene Summary:** Cation channel that gives rise to very low constitutive currents in the absence of activation. The activated channel exhibits selectivity for sodium and lithium, and is inhibited by amiloride (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR223851