

Product datasheet for **MG223851**

Asic5 (NM_021370) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asic5 (NM_021370) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Asic5
Synonyms:	Accn5; Blinac; Inac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223851 representing NM_021370
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAACATACTGAGAAATCACAAGTGCACGCGGAGAAAGGACTCTTAGGAAAGATAAAACGTTACCTCT
 CAAAGAGACCACTGCCATCTCCAAGTACCGGAAGAAGTTCGATCAAGACTTTGCCATGTCCACTTCCTT
 TCATGGGATACATAATATTGCCAGAACCAGAACAAGTTCGAAAAGGTGATCTGGCTGGCTGTGGTGCTG
 GGCTCTGTCTCGCTCTTGGTGTGGCAAATCTACAGTCGTTTGGTCAATTACTTCACATGGCCAACGACAA
 CATCTATAGAAGTTCAGTATGTGAAAAAATCGAGTTCAGCTGTGACACTCTGTAACCTGAACAGATT
 CCAAACAGAAGCAGTATCTAGATTTGGCATCATTTTCTTCTGTGGGACATAGTCTCCAAAGTCTCCGC
 CTTCAGGAAATCAGTGCCAACAACACTGGCTCTCCAGAGACCTTAGATTTTGTACGAATACCAAAACT
 TCAGCATTACAGAGTTTGTCAAGAACAATGGTTTTTATCTCAATAACGACACTTTGGTGCAGTGTGAGTT
 CTTTGGCAAAACATGCAGTCCAAGGATTTCAAACACGCTTTACTGAATATGGGAATTGCTTCACTTTT
 AACTACGGTGAGAATATCCAAAACAAGAATAAAGTGAGTGTGCCGAAGAGGCTTAAAGCTGCTCCTCG
 ACGTCCATCAGGAGGAATCACTGACAACCCAGTCCCTGGTTTTGCTGATGCTGGTGTCACTTTGTTAT
 TCACTACCAAAGAAGGAGCCACAGTTTGTAGGCTTAGGTTTGTCTTCTCCTGTGGGAATGCATGCACGG
 GTGACCATCCGCCAACTGAAGACGGTCCACCAGGAGTACCCATGGGGAGAATGCAATCCCAACATCAAGC
 TGAGAACTTCATTACCTACAGCACTTACGGGTGTCTGAAGGAGTGCAAAGCCCGGCATATACAAAGGCT
 GTGTGGATGTCTGCCCTTCTGCTTCCAGGAAATGGTGTAGAGTGTGACCTACTAGAATACTACAAGTGT
 GTGTCTCCATCCTTGATCACATCGAGCGTAAGGGACTATGCACGATGGGAACACACAACCTCCAGCTGCC
 CTGTGTCATGTGAGGAAACAGAATACCCAGCTACTGTTTCTTACTACTTTCCAAAGTCAAAGAGCAAC
 AAGGTTTCTTGCCAAGAATGAATCAAAGCCAAGAATATATCCGGGAGAATCTCGTGAACATTGAATA
 AACTATAGCGACTTAAACTATAAGATAACGCAGCAACAGAAGGCCGTGAGTGTGCCTGAGTTACTTGCAG
 ATGTTGGCGGTCAGCTGGGACTGTTCTGTGGAGCTAGTTTGATTACAATTATAGAAATTATTGAATATTT
 TTTACCAATTTCTACTGGTACTATTTTCTTTTGTGAAAATACTTGAACGATACAGCGGACTTCT
 CCACCTCAGGCAGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG223851 representing NM_021370
 Red=Cloning site Green=Tags(s)

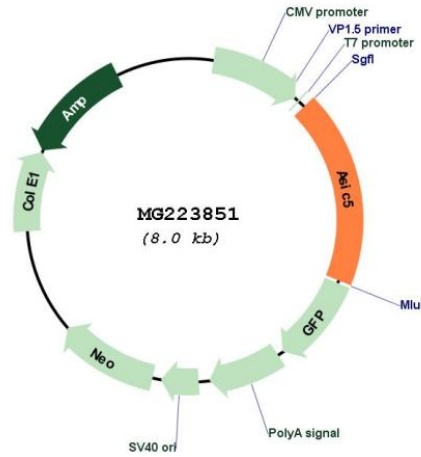
MEHTEKSQVHAEKGLLGKIKRYLSKRPLPSPDRKKFDQDFAMSTSFHGIHNIQNQNKVRKVIWLAVVL
 GSVSLLVWQIYSRLVNYFTWPTTTSIEVQYVEKIEFPAVTLNLRNFQTEAVSRFGIIFFLWDIVSKVLR
 LQEISANNTGSPETLDFVTNHQNF SITEFVKNGFYLNNDL VHCEFFGKTCSPKDFKHVFTEYGNCFTF
 NYGENIQNKNKVSVSGRGLKLLLDVHQEEFTDNPVPGFADAGVIFVIHSPKKEPQFDGLLSSPVMHAR
 VTIRQLKTVHQEYPWGECPNPKLRNFITYSTYGCLKECKARHIQRLCGCLPFLLPNGVVECDLLEYNC
 VSPILDHIERKGLCTMGTHNSSCPVSCEETEYPATVSYSTFPQRATRFLAKKLNQSQEYIRENLVNIIEI
 NYSDLNLIKITQQKAVSPELLADVGGQLGLFCGASLITIEIEIEYFFTNFYWVLIFFLLKILETIQRTS
 PPQAV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



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

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]