

Product datasheet for **RN200429**

Asic2 (NM_012892) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asic2 (NM_012892) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Asic2
Synonyms:	Accn1; BNaC1; BNC1k; MDEG; MDEG1; MDEG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN200429 representing NM_012892
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCCGGAGCGCGGAGCCCGCTGCCCGCAGCCGCTCAGCGGCCCGGACGCTTCCGTATGGCCC
 GCGAGCAGCCGGCGCCCGTGGCGGTGGCGGCAGCTAGGCAGCCCGAGGAGACCGGAGCGCGGATCCGGC
 GCTGCAGGGGCCAGGGTCCGCCAGGGGGCGGCCGCTCCTGAGTCGCACTAAATTGCACGGGCTGCGG
 CACATGTGCGCGGGGCGCACGGCGGGAGGCTCTTTCCAGCGACGGCGCTGTGGGTGCTGGCCTTCT
 GCACGTCCCTCGGCTTGCTGTCTCTGGTCTCGAACCCGCTGCTCTACTGGCTCAGCTTCCCCTCACA
 CACACGAGTGCACCGTGTGAGTGGAGCCGACGTCGCCGTTCCCGCCGTCACCGTGTGCAACAACAACCC
 CTGCGCTTCCCGCCTCTCAAGGGGGACCTCTACTACGCGGGCCACTGGCTAGGGTGTGCTTCCCA
 ACCGCACCGCGCCCGCTGGTCAGCGAGCTGTGCGGGGCGACGAGCCGCGCCAGTGGTCCGCAA
 ACTGGCCGACTTCCGCTCTTCTGCCCGCGCCACTTCGAGGGCATCAGCGCTGCCTTCATGGACCGT
 TTGGGCCACAGCTGGAGGATATGCTGCTCTCTGCAAGTACCGGGCGAGCTCTGTGGCCGCACAAC
 TCTCTCAGTGTTTACAAAATACGGGAAGTGTACATGTTTAACTCAGGCAGGATGGCAAGCCGCTGCT
 CACCACGGTCAAGGGGGGACGGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAAGATGAGTACCTG
 CCCATCTGGGGAGAGACAGAGAAACAACGTTTGAAGCAGGAGTGAAGTTTCCAGACCTTCGTGGCCACAAGA
 AGCCGCTTTTCAAGAGCTGGGCTTTGGGGTGGTCCGGGGTCCAGACCTTCGTGGCCACAACAAGA
 GCAGAGGCTCACATATCTGCCCCACCATGGGGGAGTCCGGTCTCAGAGATGGGACTCGACTTCTTT
 CCTGTTTACAGCATCACAGCCTGTGGATTGACTGTGAGACCCGCTACATCGTGGAGAAGTGAAGTGC
 GCATGGTCCACATGCCAGGGGACGCCCTTTCTGCACCCCTGAGCAGCACAAGGAGTGTGCAGAGCCTGC
 CCTCGGTCTACTGGCAGAAAAGGACAGCAATTACTGTCTCTGCAGGACACCCTGCAACCTGACACGCTAC
 AACAAAGAGCTCTCCATGGTGAAGATCCCAGCAAGACGTGAGCAAGTACTTAGAGAAGAAATTTAACA
 AATCGGAAAAATATATCTCAGAGAACATTTCTGTTCTGGACATATTTTTGAGGCGCTCAATTACGAAAC
 AATTGAACAGAAGAAGCGTATGAAGTTGCTGCCTTACTTGGTGCATCGGTGGTGCAGATGGGACTGTT
 ATTGGTGTAGTCTCTCACAATACTAGAGCTTTTATTATTTATGAGCTGATCAAAGAGAAGCTAT
 TAGACCTGCTGGCAAAGAAGAAGGAAGGGAGCCACGATGAGAACATGAGCACCTGTGACACAATGCC
 AAACCACTCTGAAACCATCAGCCACACTGTGAACGTGCCCTGCAGACAGCTTTGGGCACCCTGGAGGAG
 ATTGCCTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012892
- Insert Size:** 1692 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_012892.2](#), [NP_037024.2](#)

RefSeq Size: 1948 bp

RefSeq ORF: 1692 bp

Locus ID: 25364

UniProt ID: [Q62962](#)

Cytogenetics: 10q26

Gene Summary: member of the degenerin/epithelial Na(+) channel superfamily; permeable for Na(+), K(+) and Li(+); mutations may lead to a form of hereditary neurodegeneration; may be important for pain sensation [RGD, Feb 2006]

Transcript Variant: The variant (MDEG2) encodes the longer protein (isoform MDEG2).