

## Product datasheet for **RR200428**

### Asic2 (NM\_001034014) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asic2 (NM_001034014) Rat Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>RR200428 representing NM\_001034014  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACCTCAAGGAGAGCCCCAGTGAGGGCAGCCTGCAACCTTCCAGTATCCAGATCTTCGCCAATACCT  
 CCACTCTCCATGGCATCCGCCACATCTTCGTGTATGGGCCGTGACCATCCGGCGTGTGCTTTGGGCACT  
 GGCTTCGTCCGATCCCTGGGCCTGCTGCTGGTGGAGAGCTCGGAGAGGGTGTCTACTATTTCTTTAT  
 CAGCATGTTACCAAGGTGGATGAAGTGGTGGCCAGAGCCTGGTCTTCCAGCTGTGACCTCTGCAACC  
 TCAATGGCTTCCGGTTCTCCAGGCTTACCACCAACGACTTGACCACGCTGGGGAGTTGTGGCCCTGCT  
 GGATGTCAACCTACAGATTCCCACCCGCATCTGGCAGACCCACGGTGTGGAGGCCCTCCGACAGAAG  
 GCCAATTCAAACACTACAAACCGAAGCAGTTCAGCATGCTGGAGTTCCTGCACCGGTAGGCCATGACC  
 TGAAGGATATGATGCTCTACTGCAAGTTCAAGGGGCAGGAGTGTGGGCATCAAGACTTCACCACAGTGT  
 TACAAAATACGGGAAGTGTACATGTTAACTCAGGCGAGGATGGCAAGCCGCTGCTCACCACGGTCAAG  
 GGGGGGACGGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAAGATGAGTACCTGCCATCTGGGGAG  
 AGACAGAGGAAACAACGTTTGAAGCAGGAGTGAAGGTTTCAGATCCACAGTCACTGTAGCCGCCCTTTCAT  
 CCAAGAGCTGGGCTTTGGGGTGGCTCCGGGGTTCAGACCTTCGTGGCCACACAAGAGCAGAGGCTCACA  
 TATCTGCCCCACCATGGGGGAGTGCCGGTCTCAGAGATGGGACTCGACTTCTTTCTGTTTACAGCA  
 TCACAGCTGTCCGATTGACTGTGAGACCCGCTACATCGTGGAGAAGTGAAGTCCGCATGGTCCACAT  
 GCCAGGGGACGCCCTTCTGCACCCCTGAGCAGCACAAGGAGTGTGCAGAGCCTGCCCTCGGTCTACTG  
 CCAGAAAAGGACAGCAATTACTGTCTCTGCAGGACACCCTGCAACCTGACAGCTACAACAAGAGCTCT  
 CCATGGTGAAGATCCCCAGCAAGACGTCAGCCAAAGTACTTAGAGAAGAAATTTAACAAATCGGAAAAATA  
 TATCTCAGAGAACATTCTTGTCTGGACATATTTTTGAGGCGCTCAATTACGAAACAATTGAACAGAAG  
 AAGGCGTATGAAGTTGCTGCCTTACTTGGTGCATCGGTGGTTCAGATGGGACTGTTTCATTGGTGTAGTC  
 TCCTCACAATACTAGAGCTCTTTGATTATTTATGAGCTGATCAAAGAGAAGCTATTAGACCTGTTGG  
 CAAAGAAGAAGAGGAAGGGAGCCACGATGAGAACATGAGCACCTGTGACACAATGCCAAACCACTCTGAA  
 ACCATCAGCCACACTGTGAACGTGCCCTGCAGACAGCTTTGGGCACCCTGGAGGAGATTGCCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200428 representing NM\_001034014  
 Red=Cloning site Green=Tags(s)

MDLKESPESLSLQPSIIQIFANTSTLHGIRHIFVYGLTIRRVLWAVAFVGSGLLLVESSERVSYFFSY  
 QHVTKVDEVVAQSLVFPVAVTLCNLNGFRFSRLTTNDLYHAGELLALLDVNLQIPDPHLADPTVLEALRQK  
 ANFKHYKPKQFSMLEFLHRVGHDLKDMMLYCKFKGQECGHQDFTTVFTKYGKCYMFNSGEDGKPLLTIVK  
 GGTGNLEIMLDIQQDEYLPWGETEETTFEAGVKVQIHSQSEPPFIQELGFVAPGFQTFVATQEORLT  
 YLPPPWGECRSSEMGLDFFPVYSITACRIDCETRYIVENCNCRMVHMPGDAPFCTPEQHKECAEPALGLL  
 AEKDSNYCLCRTPCNLTRYNKELSMVKIPSKTSAKYLEKKFNKSEKYISENILVLDIFFEALNYETIEQK  
 KAYEVAALLGDIQQMGLFIGASLLTILELFDYIYELIKEKLLDLLGKEEEEGSHDENMSTCDTMPNHSE  
 TISHTVNVPLQTALGTLEEIAC

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

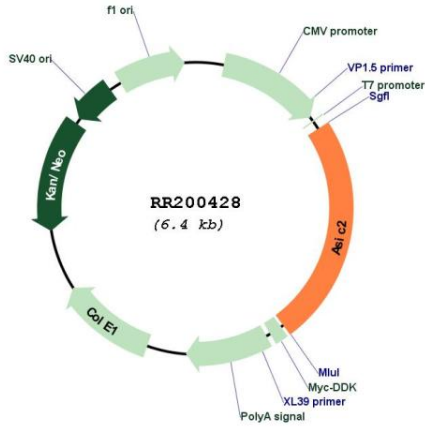
**Cloning Scheme:**


<b>ACCN:</b>	NM_001034014
<b>ORF Size:</b>	1536 bp
<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>	<u>NM_001034014.1, NP_001029186.1</u>
<b>RefSeq Size:</b>	2565 bp
<b>RefSeq ORF:</b>	1539 bp
<b>Locus ID:</b>	25364
<b>UniProt ID:</b>	<u>Q62962</u>
<b>Cytogenetics:</b>	10q26

**MW:** 57.7 kDa

**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]

**Product images:**



Circular map for RR200428