

Product datasheet for **RR200429**

Asic2 (NM_012892) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR200429 representing NM_012892
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCCGGAGCGCGGAGCCCGCTGCCCGCAGCCGCTCAGCGGCCGGGACGCTTCCGTATGGCCC
 GCGAGCAGCCGGCGCCCGTGGCGGTGGCGGCAGCTAGGCAGCCGGAGGAGACCGGAGCGCGATCCGGC
 GCTGCAGGGGCCAGGGTTCGCCCGCAGGGGGCGGCCGTCCTGAGTCGCACTAAATTGCACGGGCTGCGG
 CACATGTGCGCGGGGCGCACGGCGGGAGGCTCTTTCCAGCGACGGCGCTGTGGGTGCTGGCCTTCT
 GCACGTCCCTCGGCTTGTGTCTGCTGCTCCTGGTCTCGAACCCGCTGCTCTACTGGCTCAGCTTCCCCTACA
 CACACGAGTGCACCGTGTGAGTGGAGCCGACGTCGCCGTTCCCGCCGTCACCGTGTGCAACAACAACCCC
 CTGCGCTTCCCGCCTCTCAAGGGGGACCTCTACTACGCGGGCCACTGGCTAGGGTGTGCTTCCCA
 ACCGCACCGCGCCCGCTGGTCAGCGAGCTGTCGGGGGCGACGAGCCGCGCCAGTGGTCCGCAA
 ACTGGCCGACTTCCGCTTCTCCTGCCCGCGCCACTTCGAGGGCATCAGCGCTGCCTTCATGGACCGT
 TTGGGCCACAGCTGGAGGATATGCTGCTCTCTGCAAGTACCGGGCGAGCTCTGTGGCCGCACAACCT
 TCTCCTCAGTGTTTACAAAATACGGGAAGTGTACATGTTTAACTCAGGCAGGATGGCAAGCCGCTGCT
 CACCACGGTCAAGGGGGGACGGCAACGGGCTGGAGATCATGCTGGACATTCAGCAAGATGAGTACCTG
 CCCATCTGGGGAGAGACAGAGAAACAACGTTTGAAGCAGGAGTGAAGTTTCCAGACCTTCGTGGCCACACA
 GCAGAGGCTCACATATCTGCCCCACCATGGGGGAGTCCGGTCTCAGAGATGGGACTCGACTTCTTT
 CCTGTTTACAGCATCACAGCCTGTGGATTGACTGTGAGACCCGCTACATCGTGGAGAAGTGTAACTGCC
 GCATGTCCACATGCCAGGGGACGCCCTTCTGCACCCCTGAGCAGCACAAGGAGTGTGCAGAGCTGC
 CCTCGGTCTACTGGCAGAAAAGGACAGCAATTACTGTCTCTGCAGGACACCCTGCAACCTGACACGCTAC
 AACAAAGAGCTCTCCATGGTGAAGATCCCAGCAAGACGTGAGCAAGTACTTAGAGAAGAAATTTAACA
 AATCGGAAAAATATATCTCAGAGAACATTTCTGTTCTGGACATATTTTTGAGGCGCTCAATTACGAAAC
 AATTGAACAGAAGAAGCGTATGAAGTTGCTGCCTTACTTGGTGCATCGGTGGTGCAGATGGGACTGTT
 ATTGGTGTAGTCTCCTCACAATACTAGAGCTCTTTGATTATTTATGAGCTGATCAAAGAGAAGCTAT
 TAGACCTGCTGGCAAAGAAGAAGGAAGGGAGCCACGATGAGAACATGAGCACCTGTGACACAATGCC
 AAACCACTCTGAAACCATCAGCCACACTGTGAACGTGCCCTGCAGACAGCTTTGGGCACCTGGAGGAG
 ATTGCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200429 representing NM_012892
 Red=Cloning site Green=Tags(s)

MSRSGGARLPATALSGPGRFRMAREQPAPVAVAAARQPGGDRSGDPALQGPVARRGRPSLSRTKLHGLR
 HMCAGRTAAGGSFQRRALWVLAFCSTLGLLLSWSSNRLLYWLSFPSHTRVHREWSRQLPFPVAVTCNNNP
 LRFPRLSKGDLYYAGHWLGLLLPNRTARPLVSELLRGDEPRRQWFRKLADFRLFLPPRHFEGISAAFMDR
 LGHQLEDMLLSCKYRGELCGPHNFSSVFTKYGKCYMFNSGEDGKPLLTTVKGGTNGLEIMLDIQQDEYL
 PIWGETEETTFEAGVKVQIHSQSEPPFIQELGFGVAPGFQTFVATQEQRITYLPPPWGECSRSEMGLDFF
 PVYSITACRIDCETRYIVENCNCRMVHMPGDAPFCTPEQHKECAEPALGLLAEKDSNYCLCRTPCNLTRY
 NKELSMVKIPSKTSAKYLEKKFNKSEKYISENIVLDIFFEALNYETIEQKAYEVAALLGDIQQMGLF
 IGASLLTILELFDYIYELIKEKLLDLLGKEEEEGSHDENMSTCDTMPNHSETISHTVNVPLQALGTLEE
 IAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

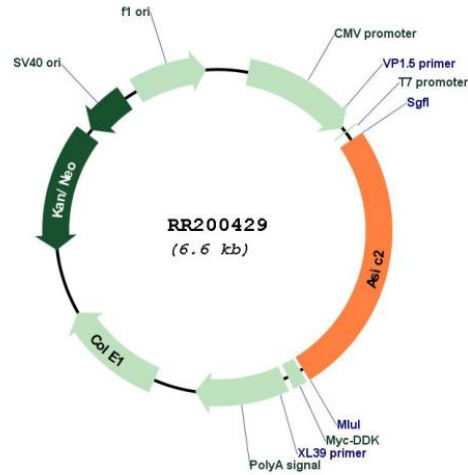
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_012892
 ORF Size: 1689 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:	<ol style="list-style-type: none">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
MW:	63.1 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]