

Product datasheet for **RR207637**

Asic1 (NM_024154) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asic1 (NM_024154) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asic1
Synonyms:	Accn2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207637 representing NM_024154
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGAATTGAAGACCGAGGAGGAGGTGGTGGTGTCCAGCCGGTGAGCATCCAGGCTTTCGCCAGCA
 GCTCCACGCTGCATGGTCTTGCCACATCTTCTCTATGAGCGGCTGTCTCTGAAGCGGGCACTGTGGC
 CCTGTGCTTCTGGGTTCTGCTGGCCGCTCTGCTGTGTGTGCACTGAGCGTGTGCACTACTTCTGCT
 TATCACACGTCACCAAGCTTGACGAAGTGGCTGCCTCCAGCTCACCTTCCCTGCTGTCACTGTGCA
 ATCTCAATGAGTTCGCTTTAGCCAAGTCTCCAAGAATGACCTGTACCATGCTGGGGAGCTGTGGCCCT
 GCTCAACAACAGGTATGAGATCCCGACACACAGATGGCTGATGAAAAGCAGCTAGAGATATTGCAGGAC
 AAGGCCAATTCCGGAGCTTCAAGCCCAAGCCCTTCAACATGCGTGAATTCTACGACAGAGCGGGCAGC
 ATATTCGAGACATGCTGCTCTCGTGCCACTTCCGTGGGAGGCCCTGCAGCGCTGAAGATTTCAAAGTGGT
 CTTCACTCGGTATGGGAAGTGTACACATCAACTCGGGCCAAGATGGGCGGCCACGGCTGAAGACCATG
 AAAGTGGGACTGGCAATGGCCCTGGAGATCATGCTGGACATTCAGCAAGATGAATATTTGCTGTGTGGG
 GAGAGACCGACGAGACATCCTTGAAGCAGGCATCAAAGTGCAGATCCACAGTCAGGATGAACCCCTTT
 CATCGACCAGCTGGGCTTTGGTGTGGCTCCAGGTTTCCAGACGTTTGTGTCTTGCAGGAGCAGAGGCTC
 ATCTACCTGCCCTCACCTGGGGCACCTGCAATGCTGTTACCATGGACTCGGATTTCTTCGACTCCTACA
 GCATCACTGCCTGCCGATTGATTGCGAGACGCGTTACCTGGTGGAGAACTGCAACTGCCGATGGTGCA
 CATGCCAGGGACGCCCATACTGCACTCCAGAGCAGTACAAGGAGTGTGCAGATCCTGCCCTGGACTTC
 CTAGTGGAGAAAGACCAGGAATACTGCGTGTGTGAGATGCCTTGAACCTGACCCGCTACGGCAAGGAGC
 TGTCCATGGTCAAGATCCAAGCAAAGCCTCCGCCAAGTACCTGGCCAAGAAGTCAACAAATCGGAGCA
 GTACATAGGGGAGAACATTCTGGTGTGGACATTTTCTTGAAGTCTCAACTATGAGACCATCGAGCAG
 AAAAAGGCCTATGAGATCGCAGGGCTGTGGGTGACATCGGGGCCAGATGGGGTTGTTATCGGTGCCA
 GCATCCTCACCGTGTGGAACCTTTGACTATGCCTACGAGGTCATTAAGCACAGGCTGTGCAGACGTGG
 AAAGTGCCAGAAGGAGGCTAAGAGGAGCAGCGCAGACAAGGGCGTGGCGCTCAGCCTGGATGACGTCAA
 AGACACAATCCCTGCGAGAGCCTCCGAGGACATCCTGCCGGGATGACGTACGCTGCCAACATCCTACCTC
 ACCATCCGCTCGAGGACGTTTGGAGACTTTACCTGC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207637 representing NM_024154
 Red=Cloning site Green=Tags(s)

MELKTEEEVGGVQPVSIQAFASSTLHGLAHIFSYERLSLKRALWALCFLGSLAVLLCVCTERVQYYFC
 YHHVTKLDEVAASQLTFPAVTLNLFNFRFSQVSKNDLYHAGELLALLNNRYEIPDQMADEKQLEILQD
 KANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFGEACSAEDFKVVFTRYGKCYTFNSQDGRPRKTM
 KGGTGNLEIMLDIQQDEYLPVWGETDETSFEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFVSCQEQL
 IYLPSPWGTCAVMTDSDFFDSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPALDF
 LVEKDQEYCVCEMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETIEQ
 KKAYEIAGLLDIGGQMLFIGASILTVLELFDYAYEVIKHLRARRGKCQKEAKRSSADKGVALLSDDVK
 RHNPCESLRGHPAGMTYAANILPHHPARGTFEDFTC

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_024154

ORF Size: 1578 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

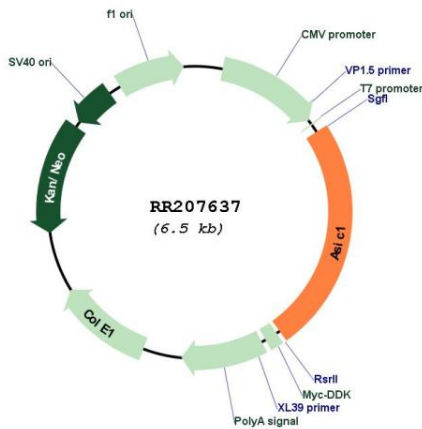
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_024154.2, NP_077068.1</u>
RefSeq Size:	3771 bp
RefSeq ORF:	1581 bp
Locus ID:	79123
UniProt ID:	<u>P55926</u>
Cytogenetics:	7q36
MW:	59.6 kDa
Gene Summary:	forms a proton-gated ion channel that may play a role in sensory neuron function and pain perception [RGD, Feb 2006]

Product images:



Circular map for RR207637