

Product datasheet for **RC223871**

ACCN5 (ASIC5) (NM_017419) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACCN5 (ASIC5) (NM_017419) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ACCN5
Synonyms:	ACCN5; HINAC; INAC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223871 representing NM_017419
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCAGACAGAAAAATCAAAGTATATGCTGAGAATGGACTCTTAGAAAAGATAAAGCTTTGCCCTT
 CAAAGAAACCACTGCCATCTCCCACTGAGCGAAAAGAAAGTTTACTATGACTTTGCCATCTCCACTTCCTT
 TCATGGGATACACAATATTGTTCAAGACCGGAGCAAAATTCGCAGGGTGTCTGGTTGGTGGTCTG
 GGCTCAGTCTCACTTGTGACATGGCAGATCTACATTCGCTTGCTCAACTACTTCACATGGCCAACCACAG
 CGTCCATTGAGGTTCAATATGTGAAAAGATGGAGTTCCCAACTGTGACATTTTGAATTTGAACAGGTT
 TCAAACAGATGCTGTAGCCAAATTTGGTGTATTTTTTTCTTATGGCACATTGTATCCAAAGTCTCCAT
 CTTCAAGAAATTAAGCAATTCCTACTGGCTCTAGAGAGGCTACTGATTTTGTGCAAGTACCAAAACT
 TCAGCATTGTGGAATTTATCAGGAACAAAGGTTTTTATCTCAACAATAGCACTTTGTTGGACTGTGAGTT
 TTTTGGAAAGCCATGTAGCCCAAAGGATTTTGCACATGTCTTCACTGAATATGGAATTTGTTTACTTTT
 AATCATGGTGAAACTCTCCAAGCAAAGAGAAAAGTGAAGTGTCTGGAAGAGGTTTGGAGTTACTCTTCA
 ATGTGAATCAGGAGGCATTCCTGATAACCCAGCCCTGGTTTCGTTGATGCTGGGATCATCTTTGTTAT
 CCATTCACCAAAGAAGGTGCCACAGTTTGTAGGGTTAGGCTTGTGTACCTGTGGGAATGCACGCAAGG
 GTAACCATCCGCAAGTGAAGACAGTTCATCAAGAATACCCTTGGGGAGAATGCAATCCTAACATCAAGC
 TGCAGAATTTTAGCAGCTACAGCACTTCTGGTTGCTTGAAGGAATGCAAAGCCAGCACATAAAAAAGCA
 ATGTGGATGTGTGCTTTTCTTCTTCTGGATATGGGATAGAATGTGACCTACAAAAGTACTTCAGCTGT
 GTTCTCTGTACTTGACCACATTGAATTAAGGATTTATGTACAGTAGGAACACATAACTCTAGCTGCC
 CCGTTTTCTGTGAAGAAATAGAATACCCGGCCACTATTTCTTATTCCTCTTTTCCAAGTCAAAAAGCTTT
 GAAATATCTTTCCAAGAAGTTGAATCAAAGCCGGAATACATCAGGGAGAATCTTGTAATAAATTGAAATT
 AACTATAGTGACCTAAACTATAAGATAACCCAGCAGCAAAGGCGGTGAGTGTGCTGAGTTACTTGCAG
 ATCTTGGTGGTACAGTGGTCTATTTTGTGGGCCAGTCTGATCAGCATAGAAATTATTGAATATCT
 ATTCACCAATTTCTACTGGATATGCATTTTCTTTTGTGAAGATATCTGAAATGACCCAGTGGACTCCT
 CCACCTCAGAATCATCTGGGAAATAAAAATAGGATAGAGGAGTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223871 representing NM_017419
 Red=Cloning site Green=Tags(s)

MEQTEKSKVYAENGLLEKIKLCPSSKPLPSPTERKKFDYDFAISTSFHGIHNIVQNRSKIRRVLWLVVVL
 GSVSLVTWQIYIRLLNYFTWPTTASIEVQYVEKMEFPTVTFCNLNRFTDAVAKFGVIFFLWHIVSKVLH
 LQEITANSTGSREATDFAASHQNF SIVEFIRNKGFYLNSTLLDCEFFGKPCSPKDFAHVFTEYGNCFTE
 NHGETLQAKRKVSVSGRGLSLLFNVNQEAFTDNPALGFVDAGIIFVVIHSPKVPQFDGLLSPVGMHAR
 VTIRQVKTVHQEYPWGECPNLIKLNQNFSSYSTSGCLKECKAQHIKKQCGCVFLLPGYGIEDLQKYFSC
 VSPVLDHIEFKDLCTVGTHNSSCPVSCEEIEYPATISYSSFPSQKALKYLSKKNLQSRKYIRENLVKIEI
 NYSDLNLIKITQQQKAVSVSELLADLGGQLGLFCGASLITIEIEIIEYLFTNFYWICIFFLLKISEMTQWTP
 PPQNHGNGKNRIIEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6848_a06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_017419

ORF Size: 1515 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_017419.3](#)

RefSeq Size: 1692 bp

RefSeq ORF: 1518 bp

Locus ID: 51802

UniProt ID: [Q9NY37](#)

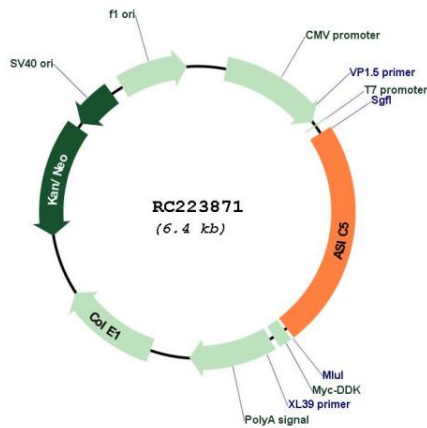
Cytogenetics: 4q32.1

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

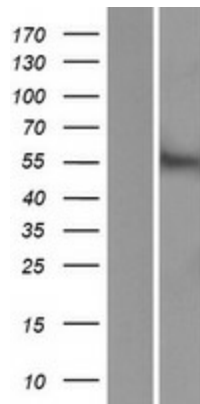
MW: 57.3 kDa

Gene Summary: This gene belongs to the amiloride-sensitive Na⁺ channel and degenerin (NaC/DEG) family, members of which have been identified in many animal species ranging from the nematode to human. The amiloride-sensitive Na(+) channel encoded by this gene is primarily expressed in the small intestine, however, its exact function is not known. [provided by RefSeq, Jul 2008]

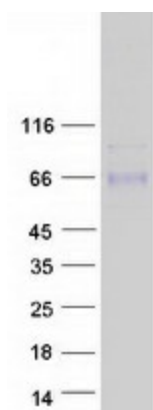
Product images:



Circular map for RC223871



Western blot validation of overexpression lysate (Cat# [LY413777]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223871 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ASIC5 protein (Cat# [TP323871]). The protein was produced from HEK293T cells transfected with ASIC5 cDNA clone (Cat# RC223871) using MegaTran 2.0 (Cat# [TT210002]).