

Product datasheet for **RG223871**

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:	TurboGFP
Symbol:	ASIC5
Synonyms:	ACCN5; HINAC; INAC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223871 representing NM_017419
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCAGACAGAAAAATCAAAAGTATATGCTGAGAACGGACTCTTAGAAAAGATAAAGCTTTGCCTTT
 CAAAGAAACCACTGCCATCTCCCACTGAGCGAAAAGATTTGACCATGACTTTGCCATCTCCACTTCCTT
 TCATGGGATACACAATATTGTTCAAGAACCGGAGCAAAATTCGCAGGGTGTCTGGTTGGTGGTCTG
 GGCTCAGTCTCACTTGTGACATGGCAGATCTACATTGCTTCAACTACTTCACATGGCCAACCACAA
 CGTCCATTGAGGTTCAATATGTGAAAAGATGGAGTCCAGCTGTGACATTTTGAATTTGAATAGGTT
 CCAAACAGATGCTGTAGCCAAATTTGGTGTATTTTTTTCTTATGGCACATTGTATCCAAAGTCTCCAT
 CTTCAAGAAATTACTGCCAATCCACTGGCTCTAGAGAGGCTACTGATTTTGTGCAAGTACCAAAACT
 TCAGCATTGTGGAATTTATCAGGAACAAAGTTTTTATCTCAACAATAGCACTTTGTTGGACTGTGAGTT
 TTTTGGAAAGCCATGTAGCCCAAAGGATTTTGCACATGTCTTCACTGAATATGGAATTTGTTTACTTTT
 AATCATGGTGAAACTCTCCAAGCAAAGAGAAAAGTGAGTGTCTGGAAGAGGTTTGGAGCTTACTCTTCA
 ATGTGAATCAGGAGGCATTCCTGATAACCCAGCCCTGGTTTCGTTGATGCTGGGATCATCTTTGTTAT
 CCATTCACCAAAGAAGGTGCCACAGTTTGTAGGGTTAGGCTTGTGTACCTGTGGGAATGCACGCAAGG
 GTAACCATCCGCCAAGTGAAGACAGTTCATCAAGAATACCCTTGGGGAGAATGCAATCCTAACATCAAGC
 TGCAGAATTTTAGCAGCTACAGCACTTCTGGTTGCTTGAAGGAATGCAAAGCCAGCACATAAAAAAGCA
 ATGTGGATGTGTGCTTTTCTTCTTCTGGATATGGGATAGAATGTGACCTACAAAAGTACTTCACTGT
 GTTCTCTGTACTTGACCACATTGAATTTAAGGATTTATGTACAGTAGGAACACATAACTTAGCTGCC
 CCGTTTTCTGTGAAGAAATAGAATACCCGGCCACTATTTCTTATTCCTCTTTTCCAAGTCAAAAAGCTTT
 GAAATATCTTTCCAAGAAGTTGAATCAAAGCCGGAATACATCAGGGAGAATCTTGTAATAAATTGAAATT
 AACTATAGTGACCTAAACTATAAGATAACCCAGCAGCAAAGGCGGTGAGTGTGTCTGAGTACTTGCAG
 ATCTTGGTGGTACAGTGGTCTATTTTGTGGGCCAGTCTGATCAGCATAGAAATTATTGAATATCT
 ATTCACCAATTTCTACTGGATATGCATTTTCTTTTGTGGAAGATATCTGAAATGACCCAGTGGACTCCT
 CCACCTCAGAATCATCTGGGAAATAAAAATAGGATAGAGGAGTGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223871 representing NM_017419
 Red=Cloning site Green=Tags(s)

MEQTEKSKVYAENGLLEKIKLCLSKKPLPSPETERKKFDHDFAIISTSFHGIHNIVQNRKIRRVLWLVVVL
 GSVSLVTWQIYIRLLNYFTWPTTTSIEVQYVEKMEFPAVTFCNLNRFDATAVAKFGVIFLWHIVSKVLH
 LQEITANSTGSREATDFAASHQNF SIVEFIRNKGFYLNSTLLDCEFFGKPCSPKDFAHVFTEYGNCFTF
 NHGETLQAKRKVSVSGRGLSLLFNVNQEAFTDNPALGFVDAGIIFVIHSPKKVPQFDGLLSPVGMHAR
 VTIRQVKTVHQEYPWGECPNLIKQNFSSYSTSGCLKECKAQHIKKQCGCVFLLPGYGIEDLQKYFSC
 VSPVLDHIEFKDLCTVGNHSSCPVSCEEIEYPATISYSSFPKALKYLSKLNQSRKYIRENLVKIEI
 NYSDLNYKITQQKAVSVSELLADLGGQLGLFCGASLITIEIEIIEYLFNTFYWICIFFLLKISEMTQWTP
 PPQNLHGNKNRIIEC

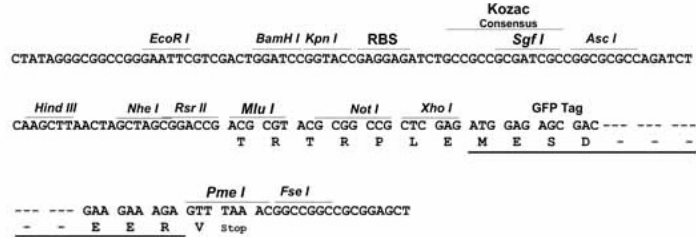
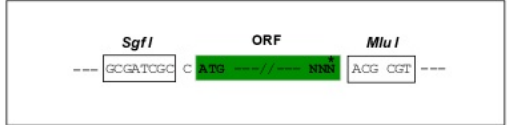
TRTRPLE – GFP Tag – V

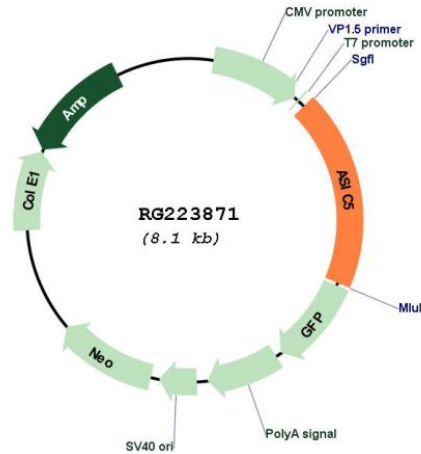
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


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:	<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:	<u>NM_017419.1, NP_059115.1</u>
RefSeq Size:	1692 bp
RefSeq ORF:	1518 bp
Locus ID:	51802
UniProt ID:	<u>Q9NY37</u>
Cytogenetics:	4q32.1
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
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]