

Product datasheet for **MR218169**

Ahcyl2 (NM_001171001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ahcyl2 (NM_001171001) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ahcyl2
Synonyms:	4631427C17Rik; Adohcyase3; AI227036; mKIAA0828
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218169 representing NM_001171001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGCAGCAAGAAGAAATACATTGTCAATAGCAACTCTGGGATTAAGCCCAGATTAGTTTGTCTG
 ACCAGAAGCAGGAATTCACAAACGTCCACCAAATCGACGTCGCTCTTTGTCTCGTTCCATCTCTCA
 GTCATCTACTGACAGCTATAGCTCAGCTGCCTCATATACAGATAGCTCTGACGATGAGACATCCCCCAGG
 GACAAGCAGCAAAAGAACTCTAAGGGAAGTAGCGACTTCTGTGTCAAGAACATCAAACAAGCGGAGTTTG
 GACGCAGAGAAAATTGAAATTGCTGAGCAAGAGATGCCTGCCTTGTGGCTTTAAGGAAGAGACCCAAAGG
 AGAAAAGCCTTTGGCTGGAGCCAAAATTGTGGTTGTACGCACATCACTGCTCAGACAGCCGTGCTTATG
 GAGACTGGGTGCTCTGGGGGCACAGTGCCGATGGGCTGCCTGCAACATCTACTCCACCCTCAATGAAG
 TGGCTGCTGCTCTCGCAGAAAGTGGTTTCCCGTCTTTGCCTGAAAGGAGAATCAGAAGATGACTTTTG
 GTGGTGCATTGACAGATGCGTGAATGTGGAGGGCTGGCAGCCAAACATGATACTGGATGATGGAGGAGAT
 CTGACTCACTGGATTTATAAAAAGTATCCCAACATGTTTAAAAAATCAAAGGCATAGTCGAGGAGAGTG
 TACTGGAGTCCATAGGCTGTACCAACTGTCCAAGCTGGGAAGCTGTGTGTTCCCGCCATGAACGTCAA
 TGACTCAGTCACTAAGCAGAAAATTTGATAACCTCTACTGTTGCCGTGAATCTATTCTTGACGGACTTAAA
 AGGACAACAGATATGATGTTTGGTGGAAAGCAGGTGGTGGTCTGTGGCTATGGAGAGGTGGGAAAGGGGT
 GCTGCGCTGCTCTGAAAGCCATGGGCTCCATTGTGTACGTGACTGAGATTGACCCCATCTGTGCCCTGCA
 AGCCTGTATGGATGGATCCGACTAGTGAAGCTGAATGAAGTATCCGACAGGTGACATTGTTATTACT
 TGCACAGGGAACAAGAATGTGGTAACCAGAGAGCACTGGACCGTATGAAGAATAGTGCATCGTTTGTA
 ACATGGGCCATTCCAACACCGAGATTGATGTGGCCAGCCTGCGGACACCAGAAGTACCTGGGAGAGAT
 AAGATCCCAAGTTGATCATGTGATATGGCCTGATGGCAAGAGGATAGTACTGCTGGCAGAGGGCCGTCTA
 CTGAATCTCAGCTGCTCCACAGTGCCTACATTTGTGCTCTCCATCACTGCTACCCTCAGGCTCTCGCCT
 TGATAGAACTTTACAATGCTCCTGAGGGTGCCTATAAGCAAGATGTGTACCTGCTACCCAAGAAAATGGA
 TGAGTATGTGGCAAGCCTACACCTGCCACCTTTGATGCCACCTGACAGAGCTAACAGATGAACAAGCC
 AAGTATCTGGGACTCAACAAGAATGGACCCTTCAAGCCTAACTACTACAGGTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218169 representing NM_001171001
 Red=Cloning site Green=Tags(s)

MLSSKKKYIVNSNSGIKAQIQFADQKQEFNKRPTKIGRRSLSRISQSSTDSYSSAASYTDSSDDETSR
 DKQQKNSKGSDFCVKNIKQAEFGRREIEIAEQEMPALMALRKRAQGEKPLAGAKIVGCTHITAQTAVLM
 ETLGALGAQCRWAACNIYSTLNEVAALAESGFPVFAWKGESEDDFWWCIDRCVNVGQWQPNMILDDGGD
 LTHWIYKYPNMFKKIKGIVEESVTGVHRLYQLSKAGKLCVPMNVNDSVTKQKFDNLYCCRESILDGLK
 RTTDMMFGGKQVVVCGYGEVKGCCAALKAMGSIYVYTEIDPICALQACMDGFRLVKLNEVIRQVDIVIT
 CTGNKNVVTREHLDRMKNSCIVCNMGSNTEIDVASLRPEL TWERVRSQVDHVIWPDGKRIVLLAEGRL
 LNLSCSTVPTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLPFTDAHLTEL TDEQA
 KYLGLNKNPFPKPNYYRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

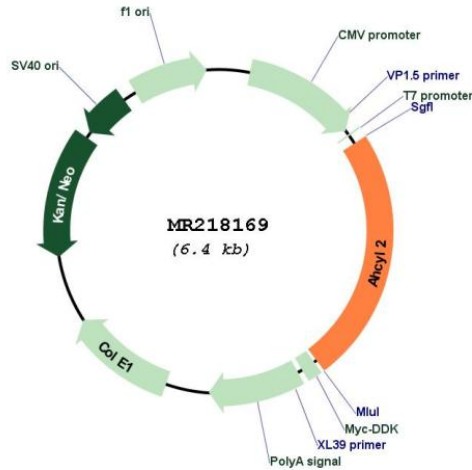
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001171001

ORF Size: 1524 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_001171001.1, NP_001164472.1</u>
RefSeq Size:	4928 bp
RefSeq ORF:	1527 bp
Locus ID:	74340
UniProt ID:	<u>Q68FL4</u>
Cytogenetics:	6 A3.3
MW:	57.2 kDa
Gene Summary:	May regulate the electrogenic sodium/bicarbonate cotransporter SLC4A4 activity and Mg(2+)-sensitivity. On the contrary of its homolog AHCYL1, does not regulate ITPR1 sensitivity to inositol 1,4,5-trisphosphate.[UniProtKB/Swiss-Prot Function]