

Product datasheet for **MG216683**

Ahcyl2 (NM_001171000) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ahcyl2 (NM_001171000) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ahcyl2
Synonyms:	4631427C17Rik; Adohcyase3; AI227036; mKIAA0828
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216683 representing NM_001171000
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCGGTGCAGTTGTGTCAGCAGCGGCAGCCGCAAGGTGCCTGAGGTGGAGCTGAAGGATCTGAGCC
 CCTCCGAGGCGGAGCCCCAGTTGGGACTGAGCGCGGCCGCGTGGGCGCCATGGTACCCCCAGCGGTGG
 CGGGGACCCAGAGGCTCCAGCTCCGGCTCCCGCGGCGGAGCGGCCCGGCCCGGCCCGGCTCGGGG
 CCCACCGCGGCTCTGAGCCCTGCGGCGGGGAAGGTCCCTCAAGCGTCCGCCATGAAGCGGAGCGACCCTC
 ATCACCAGCACCAGCGGCATCGCGACGGCGGAGGCCTTGGTACGCCCCGACGGCACGGTACCCAGGC
 GCCGCGCACGGTCAAGAAGATTCAGTTTGTGACCAGAAGCAGGAATCAACAAACGTCCCACAAAATC
 GGACGTCGCTCTTGTCTCGTTCATCTCTCAGTCATCTACTGACAGCTATAGCTCAGCTGCCTCATATA
 CAGATAGCTCTGACGATGAGACATCCCCAGGGACAAGCAGCAAAAGAACTCTAAGGGAAGTAGCGACTT
 CTGTGTCAAGAACATCAAACAAGCGGAGTTTGGACGCAGAGAAAATTGAAATTGCTGAGCAAGAGATGCCT
 GCCTTGATGGCTTAAAGGAAGAGAGCCCAAGGAGAAAAGCCTTTGGCTGGAGCCAAAATTGTGGTTGTA
 CGCACATCACTGCTCAGACAGCCGTGCTTATGGAGACTGGGTGCTCTGGGGGCACAGTGCCGATGGGC
 TGCTGCAACATCTACTCCACCCTCAATGAAGTGGCTGCTGCTCTCGCAGAAAGTGGGTTTCCCCTCTT
 GCCTGGAAGGAGAATCAGAAGTAGCTTTTGGTGGTGCATTGACAGATGCGTGAATGTGGAGGGCTGGC
 AGCCAAACATGATACTGGATGATGGAGGAGATCTGACTCACTGGATTTATAAAAAGTATCCCAACATGTT
 TAAAAAATCAAAGGCATAGTCGAGGAGAGTGTACTGGAGTCCATAGGCTGTACCAACTGTCCAAAGCT
 GGAAGCTGTGTGTTCCCGCCATGAACGTCAATGACTCAGTCACTAAGCAGAAAATTGATAACCTCTACT
 GTTCCGCTGAATCTATTCTTACGGACTTAAAAGGACAACAGATATGATGTTTGGTGGAAAGCAGGTGGT
 GGCTGTGGCTATGGAGAGGTGGGAAAGGGGTGCTGCGCTGCTGAAAGCCATGGGCTCCATTGTGTAC
 GTGACTGAGATTGACCCCATCTGTGCCCTGCAAGCCTGTATGGATGGATTCCGACTAGTGAAGCTGAATG
 AAGTCATCCGACAGGTCGACATTGTTATTACTTGCACAGGGAACAAGAATGTGGTAACCAGAGAGCACTT
 GGACCGTATGAAGAATAGCTGCATCGTTTGAACATGGGCCATTCCAACACCGAGATTGATGTGGCCAGC
 CTGCGGACACCAGAACTGACCTGGGAGAGAGTAAGATCCCAAGTTGATCATGTGATATGGCTGATGGCA
 AGAGGATAGTACTGCTGGCAGAGGGCCGCTACTGAATCTCAGCTGCTCCACAGTGCCTACATTTGTGCT
 CTCCATCACTGCTACCACTCAGGCTCTCGCCTTGATAGAATTTACAATGCTCCTGAGGGTGCCTATAAG
 CAAGATGTGTACCTGCTACCAAGAAAATGGATGAGTATGTGGCAAGCCTACACCTGCCACCTTTGATG
 CCCACCTGACAGAGCTAACAGATGAACAAGCCAAGTATCTGGGACTCAACAAGAATGGACCCTTCAAGCC
 TAACTACTACAGGTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG216683 representing NM_001171000
 Red=Cloning site Green=Tags(s)

MSVQVVSA AAAAKVPEVELKDLSPSEAEPLGLSAAAVGAMVPPAGGGDPEAPAPAPAAERPPAPGPGSG
 PTAALSPAAGKVPQASAMKRSDPHHQHRHRDGGREALVSPDGTVEAPRTVKKIQFADQKQEFNKRPTKI
 GRRSLRSISQSSTDSYSSAASYTDSDETSRDKQKNSKGSDFCVKNIKQAEFGRRIEIEAEQEMP
 ALMALRKRAQGEKPLAGAKIVGCTHITAQTAVLMETL GALGAQCRWAACNIYSTLNEVAALAESGFVVF
 AWKGESEDDFWCIDRCVNVQWQPNMILDDGGDLTHWIYKYPNMFKKIKGIVEESVTGVHRLYQLSKA
 GKLCVPAMNVNDSYTKQKFDNL YCCRESILDGLKRTTDMMFGGKQVVVCGYGEVKGCCAALKAMGSIVY
 VTEIDPICALQACMDGFRVLKLVIRQVDIVITCTGNKNVVTREHLDRMKNSCIVCNMGSNTEIDVAS
 LRTPEL TWERVRSQVDHVIWPDGKRIVLLAEGRLNLSCSTVPTFVLSITATTQALALIELYNAPEGRYK
 QDYYLLPKMDEYVASLHLPFD AHL TELTDEQAKYLGLNKNPFPKPNYYRY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001171000

ORF Size: 1836 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_001171000.2](#), [NP_001164471.2](#)

RefSeq Size: 5215 bp

RefSeq ORF: 1839 bp

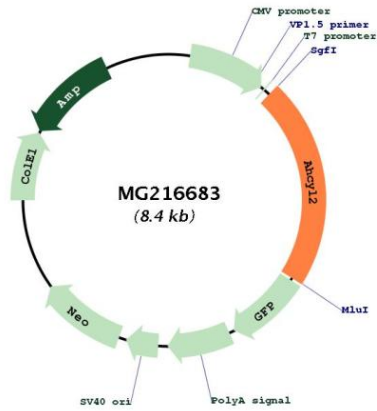
Locus ID: 74340

UniProt ID: [Q68FL4](#)

Cytogenetics: 6 A3.3

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]

Product images:



Circular map for MG216683