

## Product datasheet for **MG209418**

### Ahcyl2 (NM\_021414) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ahcyl2 (NM_021414) 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:**

>MG209418 representing NM\_021414  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGTGCAGTTGTGTCAGCAGCGGCAGCCGCAAGTGCCTGAGGTGGAGCTGAAGGATCTGAGCC  
 CCTCCGAGGCGGAGCCCCAGTTGGGACTGAGCGCGGCGGCGTGGGCGCCATGGTACCCCCAGCGGTGG  
 CGGGGACCCAGAGGCTCCAGCTCCGGCTCCCGCGGCGGAGCGGCCCGGCCCGGCCCGGCTCGGGG  
 CCCACCGCGGCTCTGAGCCCTGCGGCGGGGAAGTCCCTCAAGCGTCCGCCATGAAGCGGAGCGACCCTC  
 ATCACCAGCACCAGCGGCATCGCGACGGCGGAGGCCTTGGTACGCCCCGACGGCACGGTACCAGAGGC  
 GCCGCGCACGGTCAAGAAGCAGATTAGTTTGTGACGAGAAGCAGGAATTAACAACCGTCCCACAAA  
 ATCGGACGTCGCTTTTGTCTCGTTCCATCTCTCAGTCATCTACTGACAGCTATAGCTCAGTGCCTCAT  
 ATACAGATAGCTCTGACGATGAGACATCCCCAGGGACAAGCAGAAAAGAACTTAAGGGAAGTAGCGA  
 CTTCTGTGTCAAGAACATCAAACAAGCGGAGTTTGGACGCAGAGAAATTGAAATTGCTGAGCAAGAGATG  
 CCTGCCTTGATGGCTTTAAGGAAGAGAGCCCAAGGAGAAAAGCCTTTGGCTGGAGCCAAAATTGTGGGTT  
 GTACGCACATCACTGCTCAGACAGCCGTGCTTATGGAGACTGGGTGCTCTGGGGGCACAGTGCCGATG  
 GGCTGCCTGCAACATCTACTCCACCCTCAATGAAGTGGCTGCTGCTCTCGCAGAAAGTGGGTTTCCCGTC  
 TTTGCCTGGAAAGGAGAATCAGAAGATGACTTTTGGTGGTGCATTGACAGATGCGTGAATGTGGAGGGCT  
 GGCAGCCAAAACATGATACTGGATGATGGAGGAGATCTGACTCACTGGATTTATAAAAAGTATCCCAACAT  
 GTTTAAAAAATCAAAGGCATAGTCGAGGAGAGTGTACTGGAGTCCATAGGCTGTACCAACTGTCCAAA  
 CTTGGGAAGCTGTGTGTCCCGCCATGAACGTCATGACTCAATGACTCAGTCACTAAGCAGAAATTTGATAACCTCT  
 ACTGTTGCCGTGAATCTATTCTTGACGGACTTAAAAGGACAACAGATATGATGTTGGTGGAAAGCAGGT  
 GGTGGTCTGTGGCTATGGAGAGGTGGGAAAGGGGTGCTGCGCTGCTCTGAAAGCCATGGGCTCCATTGTG  
 TACGTGACTGAGATTGACCCCATCTGTGCCCTGCAAGCCTGTATGGATGGATTCCGACTAGTGAAGCTGA  
 ATGAAGTCATCCGACAGGTGACATTGTTATTACTTGCACAGGGAACAAGAATGTGGTAACCAGAGAGCA  
 CTTGGACCGTATGAAGAATAGCTGCATCGTTTGAACATGGGCCATTCCAACACCGAGATTGATGTGGCC  
 AGCCTGCGGACACCAGAAGTACCTGGGAGAGAGTAAGATCCCAAGTTGATCATGTGATATGGCCTGATG  
 GCAAGAGGATAGTACTGCTGGCAGAGGGCCGTCTACTGAATCTCAGCTGCTCCACAGTGCCTACATTTGT  
 GCTCTCCATCACTGCTACCCTCAGGCTCTCGCCTTGATAGAATTTACAATGCTCCTGAGGGTCTGCTAT  
 AAGCAAGATGTGTACCTGCTACCAAGAAAATGGATGAGTATGTGGCAAGCTACACCTGCCACCTTTG  
 ATGCCACCTGACAGAGCTAACAGATGAACAAGCCAAGTATCTGGGACTCAACAAGAATGGACCCCTCAA  
 GCCTAACTACTACAGGTAT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209418 representing NM\_021414  
 Red=Cloning site Green=Tags(s)

MSVQVVSAAAAQVPEVELKDLSPSEAEPLGLSAAAVGAMVPPAGGGDPEAPAPAPAAERPPAPGPGSG  
 PTAALSPAAGKVPQASAMKRSPPHHQHRHRDGGREALVSPDGTVEAPRTVKKQIQFADQKQEFNKRPTK  
 IGRRSLRSISQSSTDSYSSAASYDSSDETSRDKQKNSKGSDFCVKNIKQAEFGRREIEIAEQEM  
 PALMALRKRAQGEKPLAGAKIVGCTHITAQTAVLMETLGAQCRWAACNIYSTLNEVAALAESGFPV  
 FAWKGESEDDFWCIDRCVNVGWQPNMILDDGGDLTHWIKKYPNMFKKIKGIVEESVTGVHRLYQLSK  
 AGKLCVPAMNVNDSVTKQKFDNLYCCRESILDGLKRTTDMFGGKQVVVCGYGEVKGCCAAALKAMGSIV  
 YVTEIDPICALQACMDGFRVLKLVNEVIRQVDIVITCTGNKNVVTREHLDRMKNSCIVCNMGSNTEIDVA  
 SLRTEPELWTERVRSQVDHVIWPDGKRIVLLAEGRLLNLSCSTVPTFVLSITATTQALALIELYNAPEGRY  
 KQDVYLLPKMDEYVASLHLPTFDAHLTELDEQAKYLGLNKNPFPKPNYYRY

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_021414.6</a> , <a href="#">NP_067389.5</a>
<b>RefSeq Size:</b>	5218 bp
<b>RefSeq ORF:</b>	1842 bp
<b>Locus ID:</b>	74340
<b>UniProt ID:</b>	<a href="#">Q68FL4</a>
<b>Cytogenetics:</b>	6 A3.3
<b>Gene Summary:</b>	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]