

## Product datasheet for **MR216146**

### **Acbd5 (NM\_001102437) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acbd5 (NM_001102437) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acbd5
Synonyms:	1300014E15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216146 representing NM\_001102437  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCTTCCTCGCGTTTCATGCAGGCTCTGGGGAAGCTGGTGTGCTGCTGTGTGATTACCGCGG  
 ACAGACCTTGGACCGAGGCCGCGCTGGCAGCTGGAGATGGCGGACACACCGTCAGTGTATGAAACCAG  
 ATTTGAGGCGGCCGTGAAGGTGATCCAGAGTTTGCCGAAAAATGGATCATTCCAACCAACAAATGAAATG  
 ATGCTTAAGTTCTATAGCTTCTACAAACAGGCAACTGAAGGACCCGTAAACTTTACGCGCTGGATTCT  
 GGGATCCTATTGGAAGATATAAATGGGATGCTTGGAGTTCAGTGGGTGATGACTAAAGAAGAAGCCAT  
 GATTGCATATGTTGAAGAAATGAAAAAGATTATTGAAACCATGCCATGACTGAGAAAAGTGAAGAGTTG  
 CTGCATGTTATAGGTCCATTTACGAGATTGTAGAAGACAAAAAGAGCAGCAAGAGTTCTGACTTGACCT  
 CAGATCTTGGTAATGTTCTGACCTTTCAAATGCCAAAGCTGTTAATGGTAAAGCAGAGAGCAGTGATAG  
 TGGGGCTGAGTCTGAAGAAGAAGAGGCCCAAGAAGAGTTAAAAGGAGCAGAACAGAGCGGCAGTGATGAT  
 AAGAAAACGCTGAAGAAATCAGCAGATAAGAATTTGGAATCATTGTTACCAATGGCTATAAAGGTAGCT  
 TTGTTCCAGGATATACAGAGTGACATTCATACTGATTCTTCCCGGAGCACCAGAAGCAGTGAAGATGAAAA  
 GCCTGGAGATGAGAGCTCTCAGCAGACAGGACACACCATTTGCTGTGCTCACCAAGATAGAAATGAAGAT  
 CCCAGTGAAGATGCTTCAGGAATACACCATTTAACAAGTGATTGAGATAGTGAAGTGTACTGTGACTCTA  
 TGGAGCAATTTGGACAAGAAGAGTATTATTTAGGTGGTGATCCTACTCAGCACTTGGAAAGTTCTGGTTT  
 TTGTGAAGATGCTCAGCAATCTCCTGGAATGGCAGCATTGGGAAAAATGTGGATGGTAGCAGTCAAAGGA  
 AAAGGCGAAGTGAACACGGAGGAGAAGATGGCAGAAGTAGCAGTGGAGCACCACCGCAGAGCAGAG  
 GTGGAGAGAGCGAGGACTTCTCCAGTGTGAGGAGGGAGAGTAGGGAATAGAATACCACATTTGAGCGA  
 AGGACCCAAGGGTCGGCAAGTAGGAAGTGGAGGTGATGGAGAACGCTGGGGCTCAGACCGGGGTCCAGA  
 GGAGCCTCAATGAGCAGATCGCTTGTGCTCATTAGATTGCAGGAGGACATGCAGAATGTCCTTCAGA  
 GACTTCATAAACTGGAACACTAACTGCTTCGAGGCGAAATTATCTTTGCAGACAAGTAATCAGCCCTC  
 CTCACAGAGACCAGCTTGGTGGCCCTTTGAGATGTCCCCTGGTGCATTAGCTTTTGTATTATATGGCCT  
 TTTATTGCTCAGTGGTTGGCACATTTGTATTATCAAAGAAGGAGAAGAAAACTAAAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216146 representing NM\_001102437  
 Red=Cloning site Green=Tags(s)

MLFLAFHAGSWGSWCCCCVITADRPWDRGRRWQLEMADTPSVYETRFEAAVKVIQSLPKNGSFQPTNEM  
 MLKFYSFYKQATEGPCKLSRPGFWDPIGRYKWDWSSLDGMTKEEAMIAVVEEMKKIETMPMTEKVEEL  
 LHVIGPFYEIVEDKSSKSSDLTSDLGNVLTSSNAKAVNGKAESSDSGAESEEEEAQEELKGAEQSGSDD  
 KKTLLKSADKNLEIIVTNGYKGSFVQDIQSDIHTDSSRSTRSSEDEKPGDESSQQTGHTIVCAHQDRNED  
 PSEDASGIHHLTSDSDSEVYCDSEYQFQEEYLLGGDPTQHLESSGFCEDAQQSPNGSIGKMMWVAVKG  
 KGEVKHGGEDGRSSSGAPHRETRGGESEDFSSVRRGRVGNRIPHLSEGPKGRQVGSGGDGERWGS DRGSR  
 GSLNEQIALVLRQLQEDMQNVLQRLHKLETLTASQAKLSLQTSNQPSQRPAWWPFEMSPGALAFAIWP  
 FIAQWLAHLYYQRRRRKLN

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9016\\_b09.zip](https://cdn.origene.com/chromatograms/mm9016_b09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001102437

**ORF Size:** 1527 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\\_001102437.1](#), [NP\\_001095907.1](#)

**RefSeq Size:** 3746 bp

**RefSeq ORF:** 1530 bp

**Locus ID:** 74159

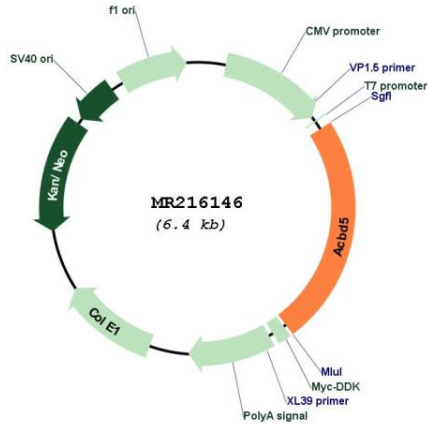
**UniProt ID:** [Q5XG73](#)

**Cytogenetics:** 2 A3

**MW:** 57.2 kDa

**Gene Summary:** Acyl-CoA binding protein which acts as the peroxisome receptor for pexophagy but is dispensable for aggrephagy and nonselective autophagy. Binds medium- and long-chain acyl-CoA esters (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR216146