

Product datasheet for **MR208428**

Acbd3 (NM_133225) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acbd3 (NM_133225) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acbd3
Synonyms:	60kDa; 8430407O11Rik; D1Erttd10e; GCP60; Gocap1; GOLPH1; Pap7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208428 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCGCAGCTGAACGTAGAGCAGCTCGAGGTGTCGCTCGACGGTCTCACGCTGAGCCCGACTCGG
 AGGAGAGGCCCGCGCGGAGGGGGCCCCCGCCGACGACCGCCGCTCCTCGGCCCGGGAATGGACTGGG
 CTCGGCGCCTCGGGGCAGCAGCGGGAGCCCGGGAGGCGGCGGTGAGGGCGCGCCGAGGAGGCGCGG
 CGGATGGAGCAGCACTGGGGCTTTGGCCTGGAGGAGCTTTACGGCCTGGCGCTGCGCTTCTACAAAAATA
 AAGATGGCAAAGCCTTTCATCCAACCTTGAAGAAAACTGAAGTTCTGGCACTGCATAAGCAAGTTCT
 TTTGGCCATATAACCCAGACACGTCCCTGAGGTTGGATTCTTTGATGTGTTGGGAATGATAGGAGG
 AGAATGGGCAGCTCTGGAAACATGTCCAAGGAGGATGCCATGGTAGAGTTTGTGAAGCTTCTAATA
 AGTGTTCCTCTCCTCTCGGCATATGTTGCGTCCCACAGAATAGAGAAGGAAGAAGAAGAGAAAAGAAG
 AAAGCGGAGGAGGAGCGAAGGCAGCGTGAAGAGGAAGAACGAGAGCGGCTGCAAAAGGAAGAAGAGAAG
 CGGAAGCGAGAGGAGGAAGACCGGCTGAGACGGGAGGAGGAAGAGAGGCGCGGATAGAGGAAGAGAGGC
 TTCGGCTGGAACAGCAAAGCAGCAGATAATGGCAGCTTTAACTCGCAGACTGCCGTGCAATTCACGCA
 GTATGCAGCCCAGCAGTATCCAGGGAACACGAACAACAGCAGATTCTCATCCGCCAGCTGCAGGAGCAG
 CACTATCAGCAGTATATGCAGCAGTTATATCAAGTCCAGCTTGCACAACAACAGGAGCATTACAGAAAC
 AGCAAGAAGTAGTGATGGCTGGGGCATCATTGCCTGCATCATCAAAGGTGAACACAGTTGGAGCAAGTGA
 TACTGTCAAGTAAAGGACAGGCCAAAACCCACACTGAAAATCCGAAAAAGTCCTTGAGCCAGAAGCT
 GCAGAAGAAGCCTTGAAAAATGGACAAAAGACTCTCTCCAGTGATTGCAGTCCATCCATGTGGACAA
 GACCACAAATCAAAGACTTTAAAGAAAGATTCCGGCAGGATGCAGATTCTGTGATTACAGTACGTCGAGG
 AGAAGTCGTACCGTCCGAGTCCCGACTCATGAGGAAGGATCATACCTATTTTGGGAATTTGCCACAGAC
 AGTTATGACATTGGGTTTGGGTTTATTTGAATGGACAGACTCTCCAAATGCTGCTGTCAGTGTGCATG
 TCAGTGAGTCCAGTGACGAGGAGGAGGAGGAGGAAGAAAATGTCACTTGTGAAGAAAAAGCAAAAAAGAA
 CGCCAACAAGCCTCTGCTGGATGAGATTGTACCTGTGTACCGCGGGACTGTCACGAGGAAGTATATGCA
 GGCAGCCACCAGTATCCAGGGAGGGAGTCTATCTCCTCAAGTTTGATAATTCCTACTCTCTGTGGAGGT
 CCAAGTCCGTCTACTACAGAGTCTATTACTAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208428 protein sequence
 Red=Cloning site Green=Tags(s)

MAAQLNVEQLEVSLDGLTLSPDSEERPGAEGAPPQTPPSSAPGNLGSASGQREPGEAAAEGAAEEAR
 RMEQHWGFGLEELYGLALRFYKIKDGKAFHPTYEEKLKFVALHKQVLLGPYNPDTPEVGFDFVLGNDRR
 REWAALGNMSKEDAMVEFVKLLNKCCPLL SAYVASHRIEKEEEEEKRRKAEERRRQREERERLQKEEEK
 RKREEDRLRREERERRIEEERLRLQKQKQIMAALNSQTAVQFQQYAAQQYPGNYEQQILIRLQEQ
 HYQQYMQQLYQVQLAQQAALQKQEVVMAGASLPASSKVNTVGASDTLSVNGQAKTHTENSEKVLPEA
 AEEALENGPKDSLPIAAPSMTWRPQIKDFKEKIRQDADSVITVRRGEVTVRVP THEEGSYLFWFATD
 SYDIGFVYFEWTDSPNAAVSVHSESSDEEEEEENVTCEEKAKKNANKPLLDEIVPVYRRDCHEEVYA
 GSHQYPGRGVYLLKFDNSYSLWRKSVYYRVYYTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_133225

ORF Size: 1578 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_133225.1](#), [NM_133225.2](#), [NM_133225.3](#), [NP_573488.1](#)

RefSeq Size: 3487 bp

RefSeq ORF: 1578 bp

Locus ID: 170760

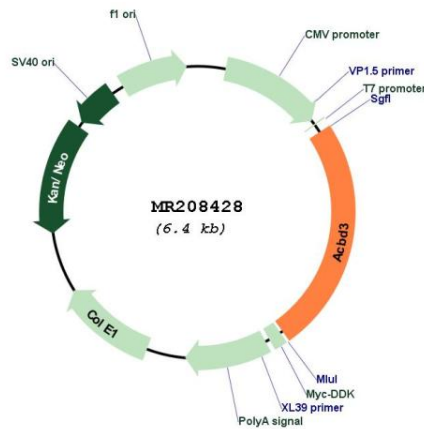
UniProt ID: [Q8BMP6](#)

Cytogenetics: 1 84.46 cM

MW: 60.2 kDa

Gene Summary: Involved in the maintenance of Golgi structure by interacting with giantin, affecting protein transport between the endoplasmic reticulum and Golgi (By similarity). Involved in hormone-induced steroid biosynthesis in testicular Leydig cells (PubMed:12711385). Recruits PI4KB to the Golgi apparatus membrane; enhances the enzyme activity of PI4KB activity via its membrane recruitment thereby increasing the local concentration of the substrate in the vicinity of the kinase (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208428