

Product datasheet for **MG208428**

Acbd3 (NM_133225) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acbd3 (NM_133225) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Acbd3
Synonyms:	60kDa; 8430407O11Rik; D1Erttd10e; GCP60; Gocap1; GOLPH1; Pap7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208428 representing NM_133225
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCAGCTGAACGTAGAGCAGCTCGAGGTGTCGCTCGACGGTCTCACGCTGAGCCCGGACTCGG
 AGGAGAGGCCCGGCGCGGAGGGGCCCGCCGACGACCGCGCTCCTCGGCCCGGGAATGGACTGGG
 CTCGGCGCCTCGGGGACGACGCGGGAGCCCGGGAGGCGGGCTGAGGGCGCGCCGAGGAGGCGCGG
 CGGATGGAGCAGCACTGGGGCTTTGGCCTGGAGGAGCTTTACGGCCTGGCGCTGCGCTTCTACAAAAATA
 AAGATGGCAAAGCCTTTCATCCAACCTTGAAGAAAACTGAAGTTCTGGCACTGCATAAGCAAGTTCT
 TTTGGGCCATATAACCCAGACACGTCCCTGAGGTTGGATTCTTTGATGTGTTGGGAATGATAGGAGG
 AGAGAATGGGACGCTCTGGAAACATGTCCAAGGAGGATGCCATGGTAGAGTTTGTGAAGCTTCTAATA
 AGTGTTCCTCTCCTCTCGGCATATGTTGCGTCCCACAGAATAGAGAAGGAAGAAGAAGAGAAAAGAAG
 AAAGGCGGAGGAGGAGCGAAGGCAGCGTGAAGAGGAAGAACGAGAGCGGCTGCAAAAGGAAGAAGAGAAG
 CGGAAGCGAGAGGAGGAAGACCGGCTGAGACGGGAGGAGGAAGAGAGGCGCGGATAGAGGAAGAGAGGC
 TTCGGCTGGAACAGCAAAAGCAGCAGATAATGGCAGCTTTAAACTCGCAGACTGCCGTGCAATTCACGCA
 GTATGCAGCCAGCAGTATCCAGGGAACACGAACAACAGCAGATTCTCATCCGCCAGCTGCAGGAGCAG
 CACTATCAGCAGTATATGCAGCAGTTATCAAGTCCAGCTTGCACAACAACAGGAGCATTACAGAAAAC
 AGCAAGAAGTAGTGATGGCTGGGCATCATTGCCTGCATCATCAAAGGTGAACACAGTTGGAGCAAGTGA
 TACTGTGAGTTAATGGACAGGCCAAAACCCACACTGAAAATCCGAAAAAGTCCTTGAGCCAGAAGCT
 GCAGAAGAAGCCTTGAAAAATGGACAAAAGACTCTCTCCAGTGATTGCAGTCCATCCATGTGGACAA
 GACCACAAATCAAAGACTTTAAAGAGAAGATTCGGCAGGATGCAGATTCTGTGATTACAGTACGTCGAGG
 AGAAGTCGTACCGTCCGAGTCCGACTCATGAGGAAGGATCATACCTATTTTGGGAATTTGCCACAGAC
 AGTTATGACATTGGGTTTGGGTTTATTTGAATGGACAGACTCTCCAAATGCTGCTGTCAGTGTGCATG
 TCAGTGAGTCCAGTGACGAGGAGGAGGAGGAGGAAGAAAATGTCACTTGTGAAGAAAAAGCAAAAAAGAA
 CGCCAACAAGCCTCTGCTGGATGAGATTGTACCTGTGTACCGCGGGACTGTCACGAGGAAGTATATGCA
 GGCAGCCACCAGTATCCAGGGAGGGAGTCTATCTCTCAAGTTTGATAATTCCTACTCTCTGTGGAGGT
 CCAAGTCCGTCTACTACAGAGTCTATTACTAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208428 representing NM_133225
 Red=Cloning site Green=Tags(s)

MAAQLNVEQLEVSLDGLTLSPDSEERPGAEGAPPQTPPSSAPGNLGSASGQQREPGEAAAEGAAEEAR
 RMEQHWGFGLEELYGLALRFYKIKDGKAFHPTYEEKLKFVALHKQVLLGPYNPDTSPVGFDFVLGNDRR
 REWAALGNMSKEDAMVEFVKLLNKCCPLL SAYVASHRIKEEEEEKRRKAEERRQREERERLQKEEEK
 RKREEDRLRREEERRRIEEERLRLEQQKQQIMAALNSQTAVQFQYAAQQYPGNYEQQILIRLQEQ
 HYQQYMQQLYQVLAQQQAALQKQEVVMAGASLPASSKVNTVGASDTLSVNGQAKTHTENSEKVLPEPA
 AEEALENGPKDSLPIAAPSMTWTRPQIKDFKEKIRQDADSVITVRRGEVTVRVP THEEGSYLFWFATD
 SYDIGFVYFEWTDSPNAAVSVHSESSDEEEEEENVTCEEKAKKNANKPLLDEIVPVYRRDCHEEVYA
 GSHQYPRGVYLLKFDNSYSLWRKSVYRVYYTR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_133225
ORF Size:	1575 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:	NM_133225.1 , NP_573488.1
RefSeq Size:	3433 bp
RefSeq ORF:	1578 bp
Locus ID:	170760
UniProt ID:	Q8BMP6
Cytogenetics:	1 84.46 cM
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]