

## Product datasheet for **RG207033**

### ACBD5 (NM\_001042473) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ACBD5 (NM_001042473) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACBD5
Synonyms:	RDLKD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG207033 representing NM\_001042473  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGGACACGAGATCCGTGCACGAGACTAGGTTTGGGCGCCGTGAAGGTGATCCAGAGTTTGCCGA  
 AGAATGGTTCATTCCAGCCAACAATGAAATGATGCTTAAATTTTATAGCTTCTATAAGCAGGCAACTGA  
 AGGACCCTGTAAACTTTCAAGGCCTGGATTTTGGGATCCTATTGGAAGATATAAATGGGATGCTTGGAGT  
 TCACTGGGTGATATGACCAAAGAGGAAGCCATGATTGCATATGTTGAAGAAATGAAAAAGATTATTGAAA  
 CTATGCCAATGACTGAGAAAAGTTGAAGAATTGCTGCGTGTATAGGTCCATTTTATGAAATTGTCGAGGA  
 CAAAAAGAGTGGCAGGAGTTCTGATATAACCTCAGATCTTGGTAAATGTTCTCACTTCTACTCCGAACGCC  
 AAAACCGTTAATGGTAAAGCTGAAAGCAGTGACAGTGGAGCCGAGTCTGAGGAAGAAGAGGCCCAAGAAG  
 AAGTGAAGGAGCAGAACAAAGTGATAATGATAAGAAAATGATGAAGAAGTCAGCAGACCATAAGAATTT  
 GGAAGTCATTGCTACTAATGGCTATGATAAAGATGGCTTTGTTTCAGGATATACAGAATGACATTCATGCC  
 AGTTCTTCCCTGAATGGCAGAAGCACTGAAGAAGTAAAGCCATTGATGAAAACCTGGGGCAAACCTGGAA  
 AATCTGCTGTTTGCATTACCAAGATATAAATGATGATCATGTTGAAGATGTTACAGGAATTCAGCATT  
 GACAAGCGATTACAGACAGTGAAGTTTACTGTGATTCTATGGAACAATTTGGACAAGAAGAGTCTTTAGAC  
 AGCTTTACGTCCAACAATGGACCATTTCAAGTATTACTTGGGTGGTCATTCCAGTCAACCCATGGAAAATT  
 CTGGATTTCTGTAAGATATTCAAGTACCTCCTGGAAATGGCAACATTTGGGAATATGCAGGTGTTGTCAGT  
 TGAAGGAAAAGGTGAAGTCAAGCATGGAGGAGAAGATGGCAGGAATAACAGCGGAGCACCACCCGGGAG  
 AAGCGAGGCGGAGAACTGACGAATCTCTAATGTTAGAAGAGGAAGAGGACATAGGATGCAACACTGGA  
 CGGAAGGAACCAAGGGCCGCGAGGTGGGAAGTGGAGGTGATGGGAGCGCTGGGGCTCCGACAGAGGGVL  
 CCGAGGCAGCCTCAATGAGCAGATCGCCCTCGTGCTGATGAGACTGCAGGAGGACATGCAGAATGTCCTT  
 CAGAGACTGCAGAACTGAAAACCTGACTGCTTTGCAGGCAAAATCATCAACATCAACATTGCAGACTG  
 CTCCTCAGCCACCTCACAGAGACCATCTTGGTGGCCCTTCGAGATGTCTCCTGGTGTGCTAACGTTTGC  
 CATCATATGGCCTTTTATTGCACAGTGGTGGTGTATTTACTATCAAAGAAGGAGAAGAAAACCTGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG207033 representing NM\_001042473  
 Red=Cloning site Green=Tags(s)

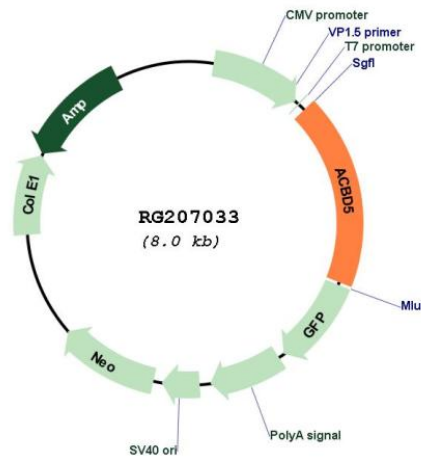
MADTRSVHETRFEEAVKVIQSLPKNGSFQPTNEMMLKFYSFYKQATEGPCKLSRPGFWDPIGRYKWD  
 SLGDMTKEEAMIAYVEEMKKIIETMPMTEKVEELLRVIGPFYIIVEDKKSGRSSDITSDLGNVLTSTPNA  
 KTVNGKAESSDSGAEESEEEEAQEEVKGAEQSDNDKMMKKADHKNLEVIVTNGYDKDGFVQDIQNDIHA  
 SSSLNNGRSTEEVKPIDENLQGTGKSAVCIHQDINDHVEDVTGIQHLTSDSDSEVYCDMEQFGQEE  
 SLD SFTSNNGPFQYYLGGHSSQPMENSGFREDIQVPPGNGNIGNMQVVAVEGKGEVKHGGEDGRNNSGAP  
 HRE KRGGETDEF SNVRRRGRHRMQHLSEGTKGRQVGSGGDGERWGS DRGSRGSLNEQIALVLMRLQEDM  
 QNVL QRLQKLETLTALQAKSSTSTLQTAPQTSQRPSWPFEMSPGVLTFAIIWPFIAQWL VYLYQRRR  
 RKLN

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001042473

**ORF Size:** 1470 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\\_001042473.1](#), [NP\\_001035938.1](#)

**RefSeq Size:** 3851 bp

**RefSeq ORF:** 1473 bp

**Locus ID:** 91452

**UniProt ID:** [Q5T8D3](#)

**Cytogenetics:** 10p12.1

**Protein Families:** Transmembrane

**Gene Summary:** This gene encodes a member of the acyl-Coenzyme A binding protein family, known to function in the transport and distribution of long chain acyl-Coenzyme A in cells. This gene may play a role in the differentiation of megakaryocytes and formation of platelets. A related protein in yeast is involved in autophagy of peroxisomes. A mutation in this gene has been associated with autosomal dominant thrombocytopenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]