

## Product datasheet for **RN214625**

### **Acaa1b (NM\_001040019) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Acaa1b (NM_001040019) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Acaa1b
Synonyms:	RGD1562373
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN214625 representing NM\_001040019  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATCGGCTGCAGGTAGTGTGGCCACCTGGCCGGCCGGTCCGAGTCGAGCTCCGCGTCAAGCCC  
 CGCCCTGCTCTGCGGGCTTCCCGCAGGCCCTCGGCCTCCGACGTGGTGGTGGTGCACGGACAGCGCACCCC  
 CATCGGCCCGCCGCGCCGCGGGCTTCAAGGACACCACCCCGACGAGTTCTGTGCGGCGTGTGACC  
 GCGGTTCTCCAGGATGTGAAGCCAAAGCCTGAGTGTCTGGGAGACATCTCCGTGGCAATGTGCTTCAGC  
 CCGGGGCCGAGCCGCAATGGCACGCATCGCCAGTTCCTGAGTGGCATCCAGAGACCGTGCCTGTGC  
 AGCAGTCAACAGACAGTGTTCATCGGGACTGCAGGCAGTGGCCAACATTGCTGGTGGCATCAGAAATGG  
 TCTTACGACATTGGCATGGCCTGTGGGGTGGAGTCCATGACCCTGTCTGAGAGAGGCAACCTGGGAATA  
 TTTCTCCGCTTCTGGAGAACGAGAAGGCCAGAGACTGCCTGATTCTATGGGGATAACCTCGGAGAA  
 TGTGGCTGAGCGTTTGGCATCTCACGGCAGAAGCAGGATGCCTTCGCGCTGGCCTCTCAGCAGAAGGCA  
 GCAAGCGCCAGAGCAAAGGCTGCTCCGTGCTGAGATCGTGCCTGTGACAACCACTGTCCCTCGATGACA  
 AGGGTGACAGGAAAACATCACCGTGTCTCAGGATGAGGGTGTCCGCCAGCACCACCATGGAGGGCCT  
 GGCCAAGCTGAAGCCTGCCTTCAAGGATGGAGGCTCTACCACGGCTGAAACTCCAGTCAGGTGAGTGT  
 GGAGCAGCCGCGTCTGCTGGCCCGGAGGTCCAAGGCTGAAGAAGTGGGCTCCCATCCTTGGCGTCC  
 TGAGGTCTATGCAGTGGTGGGGTCCCTCCTGACATCATGGGCATCGGACCTGCCTATGCCATCCCTGC  
 GGCCTTGAGAAAGCAGGGCTGACTGTGAATGACATAGACATCTTGAGATCAATGAGGCCTTTGCAAGT  
 CAGGCCCTCTACTGTGTGGAGAAGCTGGGAATTCCTGCAGAAAAGGTGAACCCCTGGGGGTGCAATAG  
 CCCTGGGCCACCCCTGGGCTGCACCGGAGCAAGGCAGGTGGTACGCTGCTCAATGAGCTGAAGCGCCG  
 AGGCAGACGGGCTTATGGCGTGGTGTCCATGTGCATCGGGACTGGGATGGGAGCCGCTGCTGTCTTTGAA  
 TACCCTGGGAAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001040019

**Insert Size:** 1275 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\_001040019.1, NP\_001035108.1

RefSeq Size: 1580 bp

RefSeq ORF: 1275 bp

Locus ID: 501072

UniProt ID: [P07871](#)

Cytogenetics: 8q32

**Gene Summary:** Responsible for the thiolytic cleavage of straight chain 3-oxoacyl-CoAs. Catalyzes the cleavage of short, medium and long straight chain 3-oxoacyl-CoAs, medium chain 3-oxoacyl-CoAs being the best substrates.[UniProtKB/Swiss-Prot Function]