

## Product datasheet for **RG216986**

### Acyl CoA Thioesterase 9 (ACOT9) (NM\_001037171) Human Tagged ORF Clone

#### Product data:

|                           |                                   |
|---------------------------|-----------------------------------|
| Product Type:             | Expression Plasmids               |
| Tag:                      | TurboGFP                          |
| Symbol:                   | Acyl CoA Thioesterase 9           |
| Synonyms:                 | ACATE2; CGI-16; MT-ACT48; MTACT48 |
| Mammalian Cell Selection: | Neomycin                          |
| Vector:                   | pCMV6-AC-GFP (PS100010)           |
| E. coli Selection:        | Ampicillin (100 ug/mL)            |



**ORF Nucleotide Sequence:** >RG216986 representing NM\_001037171  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGCGGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGCGGGCAGCACTGCGGCTTTGTCCTTGGCAAAGGGCAGCTTACTCCTGGAAGAGGACTGACTC  
 AAGGACCCCAGAACCCCAAGAAACAGGGAATCTCCACATTCATGAAGCATGTTTCATCTATACATGTGAA  
 TCATGTTCCGAGATAAGTTGCGGGAGATAGTAGGAGCATCCACAACTGGAGAGACCATGTGAAGGCAATG  
 GAAGAAAGGAAATTACTTCATAGTTTCTTGGCTAAATCACAGGATGGACTGCCTCCTAGGAGAATGAAGG  
 ACAGTTATATTGAAGTTCTCTTGGCTTTGGCAGTGAGCCTGAATTACGAGAGAAATATTTGACTGTTCA  
 AAACACCGTAAGATTTGGCAGGATTCTTGAGGATCTTGACAGCTTGGGAGTTCTTATTGTTACATGCAC  
 AACAAAATCCACTCCGCCAAGATGTCTCTTTATCGATAGTTACAGCCCTGGTGGATAAGATTGATATGT  
 GTAAGAAGAGCTTGAGCCAGAACAGGACATTAAAGTTCAGTGGCCATGTTAGCTGGGTCGGGAAGACATC  
 CATGGAAGTGAAGATGCAAATGTTCCAGTTACATGGTGATGAATTTGTCCTGTTTTGGATGCAACATTT  
 GTAATGGTGGCTCGTGATTCTGAAAAATAAGGGCCGGCATTGTAAATCCACTCATCCCTGAAAGCCAG  
 AGGAAGAGGAGCTCTTTAGACAAGGGGAATTGAACAAGGGGAGAAGAATTGCCTTCAGCTCCACGTCGTT  
 ACTGAAATGGCCCCCAGCGCTGAGGAGAGGACCACCATACATGAGATGTTTCTCAGCAGCTGGATCCA  
 AAGACTATAAGTTTTCGGAGTCGAGTTTTACCTCTAATGCAGTGTGGATGGAGAATTCAAACTGAAGA  
 GTTTGGAAATTTGCCACCCTCAGGAGCGGAACATTTCAATCGGATCTTTGGTGGTTTCTTATGAGGAA  
 GGCATATGAACCTTGCCTGGGCTACTGCTTGTAGCTTTGGTGGTTCTCGACCGTTTGTGGTAGCAGTAGAT  
 GACATCATGTTTCAGAAACCTGTTGAGGTTGGCTCATTGCTCTTTCTTTCTTCACAGGTATGCTTTACTC  
 AGAATAATTATATTCAAGTCAGAGTACACAGTGAAGTGGCTCCCTGCAGGAGAAGCAGCATACAACCAC  
 CAATGTCTTTCATTTACGTTTCATGTCGAAAAAGAAGTGCCATTGGTTTTCCAAAAACATATGGAGAG  
 TCCATGTTGTACTTAGATGGGCGAGCGGCATTTCAACTCCATGAGTGGCCAGCGACCTTGAGAAAGGACT  
 ACCTTGTGGAGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

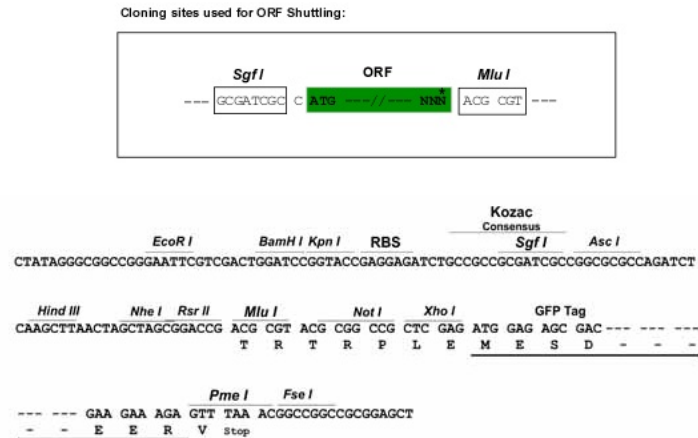
**Protein Sequence:** >RG216986 representing NM\_001037171  
 Red=Cloning site Green=Tags(s)

MRRAALRLCALGKQLTPGRGLTQGPQNPKKQGFHIEACSSIHVNHVRDKLREIVGASTNWRDHVKAM  
 EERKLLHSFLAKSQDGLPPRRMKDSYIEVLLPLGSEPELREKYLTVQNTVRFGRILEDLSLGLVICYMH  
 NKIHSKMSPLSIVTALVDKIDMCKKSLSPQDIKFSGHVSWVGKTSMEVKMQMFQLHGDEFCPVLDAF  
 VMVARDSENKGPFAVNPLIPESPEEEELFRQGLNKGRRIFASSTLLKMAPSAEERTTIHEMFLSTLDP  
 KTISFRSRVLPNAVWMENSKLSLEICHQPERNIFNRIFGGFLMRKAYELAWATACSFSGSRPFVAVD  
 DIMFQKPVEVGSLLFLSSQVCFTQNNYIQVRVHSEVASLQEKQHTTTNVFHTFMSEKEVPLVPFKTYGE  
 SMLYLDGQRHFNMSGPATLRKDYLVDP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

## Cloning Scheme:



**ACCN:** NM\_001037171

**ORF Size:** 1344 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001037171.2](#)

RefSeq Size: 1727 bp

RefSeq ORF: 1347 bp

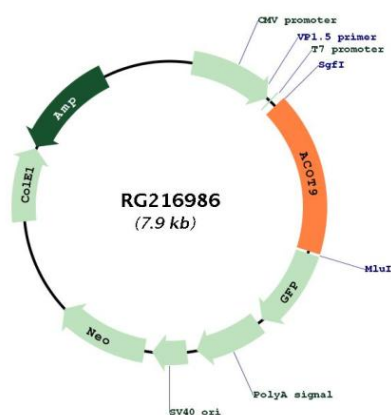
Locus ID: 23597

UniProt ID: [Q9Y305](#)

Cytogenetics: Xp22.11

**Gene Summary:** The protein encoded by this gene is a mitochondrial acyl-CoA thioesterase of unknown function. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

## Product images:



Circular map for RG216986