

## Product datasheet for **RG203763**

### LCAT (NM\_000229) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LCAT (NM_000229) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LCAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203763 representing NM_000229 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCCGCCCGGCTCCCCATGGCAGTGGGTGACGCTGCTGCTGGGGCTGCTGCTCCCTCCTGCCGCC  
CCTTCTGGCTCCTCAATGTGCTCTTCCCCCGCACACCACGCCAAGGCTGAGCTCAGTAACCACACACG  
GCCCGTCATCCTCGTGCCCGGCTGCCTGGGAATCAGCTAGAAGCCAAGCTGGACAAACCAGATGTGGTG  
AACTGGATGTGCTACCGCAAGACAGAGGACTTCTTACCATCTGGCTGGATCTCAACATGTTCTACCCC  
TTGGGGTAGACTGCTGGATCGATAACACCAGGTTGTCTACAACCGGAGCTCTGGGCTCGTGTCCAACG  
CCCTGGTGTCCAGATCCGCGTCCCTGGCTTTGGCAAGACCTACTCTGTGGAGTACCTGGACAGCAGCAAG  
CTGGCAGGGTACCTGCACACACTGGTGCAGAACCTGGTCAACAATGGCTACGTGCGGGACGAGACTGTGC  
GCGCCGCCCCCTATGACTGGCGGCTGGAGCCCGGCCAGCAGGAGGAGTACTACCGCAAGCTCGCAGGGCT  
GGTGGAGGAGATGCACGCTGCCTATGGGAAGCCTGTCTTCTCATTGGCCACAGCCTCGGCTGTCTACAC  
TTGCTCTATTTCTGCTGCGCCAGCCCCAGGCCTGGAAGGACCGCTTTATTGATGGCTTCATCTCTTTG  
GGGCTCCCTGGGGTGGCTCCATCAAGCCCATGCTGGTCTTGGCCTCAGGTGACAACCAGGGCATCCCCAT  
CATGTCCAGCATCAAGCTGAAAGAGGAGCAGCGCATAACCACCACCTCCCCCTGGATGTTCCCTCTCGC  
ATGGCGTGGCCTGAGGACCACGTGTTCAATTTCCACACCCAGCTTCAACTACACAGGCCGTGACTTCCAAC  
GCTTCTTTGCAGACCTGCACTTTGAGGAAGGCTGGTACATGTGGCTGCAGTACGTGACCTCCTGGCAGG  
ACTCCCAGCACCTGGTGTGGAAGTATACTGTCTTTACGGCGTGGGCTGCCACGCCCCCGCACCTACATC  
TACGACCACGGCTTCCCCTACACGGACCCTGTGGGTGTGCTCTATGAGGATGGTGTGACACGGTGGCGA  
CCCGCAGCACCGAGCTCTGTGGCCTGTGGCAGGGCCGCCAGCCACAGCCTGTGCACCTGTGCCCTGCA  
CGGGATACAGCATCTCAACATGGTCTTCCAGCACTGACCCTGGAGCACATCAATGCCATCTGTGGGT  
GCCTACCGCCAGGGTCCCCCTGCATCCCCGACTGCCAGCCAGAGCCCCCGCCTCCTGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203763 representing NM\_000229  
 Red=Cloning site Green=Tags(s)

MGPPGSPWQVTLTLLGLLLPPAAPFWLLNVLFPHTTPKAELSNHTRPVILVPGCLGNQLEAKLDPDVV  
 NWMCYRKTEDFFTIWLDLNMFLPLGVDCWIDNTRVYVNRSSGLVSNAPGVQIRVPGFKTYSVEYLDSSK  
 LAGYLHTLVQNLVNNGYVRDETVRAAPYDWRLEPGQEEYYRKLAGLVEEMHAAAYGKPVFLIGHSLGCLH  
 LLYFLLRQPQAWKDRFIDGFISLGAPWGGSIKPMMLVLASGDNQGIPISSIKLKEEQRITTTSPWMFPSR  
 MAWPEDHVFISTPSFNITGRDFQRFFADLHFEEGWYMWLQSRDLLAGLPAPGVEVYCLYGVGLPTPRTYI  
 YDHGFYTPDVGVLVEDGDDTVATRSTELCGLWQGRQPQVHLLPLHGIQHLNMVFSNLTLEHINAILLG  
 AYRQGGPPASPTASPEPPPPPE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_000229

**ORF Size:** 1320 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\\_000229.2](#)

**RefSeq Size:** 1354 bp

**RefSeq ORF:** 1323 bp

**Locus ID:** 3931

**UniProt ID:** [P04180](#)

**Cytogenetics:** 16q22.1

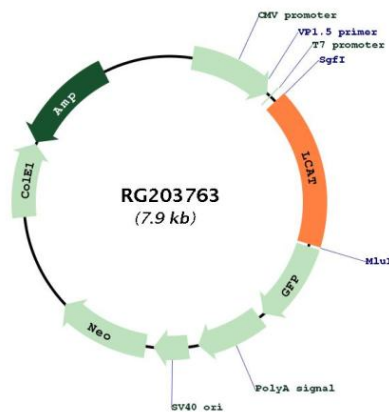
**Domains:** LACT

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Glycerophospholipid metabolism

**Gene Summary:** This gene encodes the extracellular cholesterol esterifying enzyme, lecithin-cholesterol acyltransferase. The esterification of cholesterol is required for cholesterol transport. Mutations in this gene have been found to cause fish-eye disease as well as LCAT deficiency. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG203763