

Product datasheet for **RG203766**

Lipoprotein lipase (LPL) (NM_000237) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Lipoprotein lipase (LPL) (NM_000237) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Lipoprotein lipase |
| Synonyms: | HDLCQ11; LIPD |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG203766 representing NM_000237
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGAGCAAAGCCCTGCTCGTCTGACTCTGGCCGTGGCTCCAGAGTCTGACCGCCTCCCGGGAG
 GGGTGGCCGCGCCGACCAAGAAGAGATTTTATCGACATCGAAAGTAAATTTGCCCTAAGGACCCCTGA
 AGACACAGCTGAGGACACTTGCCACCTCATTCCCGGAGTAGCAGAGTCCGTGGCTACCTGTCATTTCAAT
 CACAGCAGCAAAACCTTCATGGTGATCCATGGCTGGACGGTAACAGGAATGTATGAGAGTTGGTGCCAA
 AACTTTGTGGCCGCTGTACAAGAGAGAACCAGACTCCAATGTCATTGTGGTGGACTGGCTGTCACGGGC
 TCAGGAGCATTACCCAGTGTCCGCGGGCTACACCAAAGTGGTGGGACAGGATGTGGCCCGGTTTATCAAC
 TGGATGGAGGAGGAGTTAACTACCTCTGGACAATGTCCATCTCTGGGATACAGCCTTGAGGCCATG
 CTGCTGGCATTGCAGGAAGTCTGACCAATAAGAAAGTCAACAGAATTACTGGCCTCGATCCAGCTGGACC
 TAACTTTGAGTATGCAGAAGCCCGAGTCTTCTCCTGATGATGCAGATTTTGTAGAGCTCTTACAC
 ACATTCACCAGAGGGTCCCTGGTCAAGCATTGGAATCCAGAAACCAGTTGGGCATGTTGACATTTACC
 CGAATGGAGGTACTTTTCAGCCAGGATGTAACTTTGGAGAAGCTATCCCGGTGATTGCAGAGAGAGGACT
 TGGAGATGTGGACCAGCTAGTGAAGTGCTCCCACGAGCGCTCCATTATCTCTTCATCGACTCTCTGTTG
 AATGAAGAAAATCCAAGTAAAGGCCTACAGGTGCAGTTCCAAGGAAGCCTTTGAGAAAGGGCTCTGCTTGA
 GTTGTAGAAAAGAACCGCTGCAACAATCTGGGCTATGAGATCAGTAAAGTCAGAGCCAAAAGAAGCAGCAA
 AATGTACTGAAGACTCGTTCTCAGATGCCCTACAAGTCTTCCATTACCAAGTAAAGATTCAATTTTCT
 GGGACTGAGAGTAAAACCATACCAATCAGGCCCTTTGAGATTTCTCTGTATGGCACCGTGGCCGAGAGTG
 AGAACATCCCATTCACTCTGCCTGAAGTTCCACAAAATAAGACCTACTCCTTCTAATTTACACAGAGGT
 AGATATTGGAGAACTACTCATGTTGAAGCTCAAATGGAAGAGTGATTCATACTTTAGCTGGTCAGACTGG
 TGGAGCAGTCCCGCTTCGCCATTGAGAAGATCAGAGTAAAAGCAGGAGAGACTCAGAAAAGGTGATCT
 TCTGTTCTAGGGAGAAAGTGTCTCATTTGCAGAAAAGGAAAGGCACCTGCGGTATTTGTGAAATGCCATGA
 CAAGTCTCTGAATAAGAAGTCAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203766 representing NM_000237
 Red=Cloning site Green=Tags(s)

MESKALLVLTAVWLQSLTASRGGVAAADQRRDFIDIESKFALRTPEDTAEDTCHLIPGVAESVATCHFN
 HSSKTFMVIHWVTGMYESWVPKLVAAALYKREPDSNVI VVDWL SRAQEHYPVSAGYTKLVGQDVARFIN
 WMEEEFNYPLDNVHLLGYSLGAHAAGIAGSLTNKKVNRITGLDPAGPNFEYAEAPSRLSPDDADFVDVLH
 TFRGSPGRSIGIQKPVGHVDIYPNGGTFQPGCNIGEAIRVIAERGLGDVDQLVKCSHERSIHLFIDSLL
 NEENPSKAYRCSSKEAFEKGLCLSCRKNRCNNLGYEISKVRAKRSSKMYLKTRSQMPYKVFHYQVKIHFS
 GTESEHTNQAFEISLYGTVAESENIPFTLPEVSTNKTYSFLLIYTEVDIGELMLKLKWKSDSYFSWSDW
 WSSPGFAIQKIRVKAGETQKKVIFCSREKVSHLQKGPAPVFKCHDKSLNKKSG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_000237

ORF Size: 1425 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_000237.1](#), [NP_000228.1](#)

RefSeq Size: 3549 bp

RefSeq ORF: 1428 bp

Locus ID: 4023

UniProt ID: [P06858](#)

Cytogenetics: 8p21.3

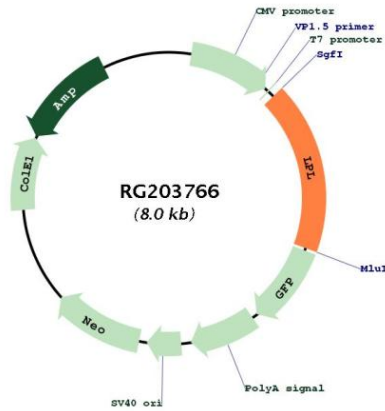
Domains: lipase, PLAT

Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Glycerolipid metabolism, PPAR signaling pathway

Gene Summary: LPL encodes lipoprotein lipase, which is expressed in heart, muscle, and adipose tissue. LPL functions as a homodimer, and has the dual functions of triglyceride hydrolase and ligand/bridging factor for receptor-mediated lipoprotein uptake. Severe mutations that cause LPL deficiency result in type I hyperlipoproteinemia, while less extreme mutations in LPL are linked to many disorders of lipoprotein metabolism. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203766