

## Product datasheet for **SC322258**

### Lipoprotein lipase (LPL) (NM\_000237) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lipoprotein lipase (LPL) (NM_000237) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lipoprotein lipase
Synonyms:	HDLCQ11; LIPD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322258  
GCTCAGCCGGCTCATCAGTCGGTCCGCGCCTTGCAGCTCCTCCAGAGGGACGCGCCCCGA  
GATGGAGAGCAAAGCCCTGCTCGTGCTGACTCTGGCCGTGGCTCCAGAGTCTGACCGC  
CTCCCCGGAGGGGTGGCCGCCGCCGACCAAAGAAGAGATTTTATCGACATCGAAAGTAA  
ATTTGCCCTAAGGACCCCTGAAGACACAGCTGAGGACACTTGCCACCTCATTCCCGGAGT  
AGCAGAGTCCGTGGTACCTGTCAATTTCAATCACAGCAGCAAAACCTTCATGGTGATCCA  
TGGCTGGACGGTAACAGGAATGTATGAGAGTTGGGTGCCAAAACCTTGTGGCCGCCCTGTA  
CAAGAGAGAACCAGACTCCAATGTCAATTTGGTGGACTGGCTGTACGGGCTCAGGAGCA  
TTACCCAGTGTCCGCGGGCTACACCAAACCTGGTGGACAGGATGTGGCCCGGTTTATCAA  
CTGGATGGAGGAGGAGTTAACTACCCTCTGGACAATGTCCATCTCTTGGGATACAGCCT  
TGGAGCCCATGCTGCTGGCATTGCAGGAAGTCTGACCAATAAGAAAGTCAACAGAATTAC  
TGGCCTCGATCCAGCTGGACCTAACTTTGAGTATGCAGAAGCCCCGAGTCGTCTTTCTCC  
TGATGATGCAGATTTTGTAGACGCTTACACACATTACCAGAGGGTCCCCTGGTCAAG  
CATTGGAATCCAGAAACCAGTTGGGCATGTTGACATTTACCCGAATGGAGGACTTTTCA  
GCCAGGATGTAACTGGAGAAGCTATCCGCGTATTGCAGAGAGAGGACTTGGAGATGT  
GGACCAGCTAGTGAAGTGTCCACGAGCGCTCCATTCATCTCTCATCGACTCTCTGTT  
GAATGAAGAAAATCCAAGTAAGGCTACAGGTGCAAGTCCAAGGAAGCCTTTGAGAAAGG  
GCTCTGCTTGTAGTGTAGAAAAGAACCGCTGCAACAATCTGGGCTATGAGATCAGTAAAGT  
CAGAGCCAAAAGAAGCAGCAAAATGTACCTGAAGACTCGTTCTCAGATGCCCTACAAAGT  
CTTCCATTACCAAGTAAAGATTCATTTTTCTGGGACTGAGAGTGAACCCATACCAATCA  
GGCCTTTGAGATTTCTGTATGGCACCCTGGCCGAGAGTGAGAACATCCCATTCACTCT  
GCCTGAAGTTCCACAAAATAAGACCTACTCCTTCTAATTTACACAGAGGTAGATATTGG  
AGAACTACTCATGTTGAAGCTCAAATGGAAGAGTGATTACTTTAGCTGGTCAAGTGT  
GTGGAGCAGTCCCGGCTTCGCCATTCAGAAGATCAGAGTAAAAGCAGGAGAGACTCAGAA  
AAAGGTGATCTTCTGTTCTAGGGAGAAAGTGTCTCATTTCAGAAAAGGAAAGGCACCTGC  
GGTATTTGTGAAATGCCATGACAAGTCTCTGAATAAGAAGTCAAGGCTGAAACTGGGCGAA  
TCTACAGAACAAAGAACGGCATGTGAATCTGTGAAGAATGAAGTGGAGGAAGTAACTTT  
TACAAAACATACCAGTGTTTGGGGTGTTCAAAAGTGGATTTTCTGAATATTAATCCC  
AGCCCTACCCTTGTAGTTATTTTAGGAGACAGTCTCAAGCACTAAAAAGTGGCTAATTC  
AATTTATGGGGTATAGTGCCAAATAGCACATCCTCAACGTTAAAAGACAGTGGATCAT  
GAAAAGTGTGTTTTGTCTTTGAGAAAAGAAATAATTGTTTGGAGCAGAGTAAAATAAG  
GCTCCTTCATGTGGCGTATTGGGCCATAGCCTATAATTGTTAGAACCTCCTATTTTAAT  
TGGAAATCTGGATCTTTCCGACTGAGGCCTTCTCAAACCTTACTCTAAGTCTCCAAGAAT  
ACAGAAAATGCTTTTCCGCGGCACGAATCAGACTCATCTACACAGCAGTATGAATGATGT  
TTTAGAATGATCCCTCTTGCTATTGGAATGTGGTCCAGACGTCAACCAGGAACATGTAA  
CTTGGAGAGGGACGAAGAAAGGGTCTGATAAACACAGAGGTTTTAAACAGTCCCTACCAT  
TGGCCTGCATCATGACAAAAGTTACAAATCAAGGAGATATAAAATCTAGATCAATTAATT  
CTTAATAGGCTTTATCGTTTATTGCTTAATCCCTCTCTCCCCCTCTTTTTTGTCTCAAG  
ATTATATTATAAATGTTCTCTGGGTAGGTGTTGAAAATGAGCCTGTAATCCTCAGCTG  
ACACATAATTTGAATGGTGCAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_000237

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000237.1</a> , <a href="#">NP_000228.1</a>
<b>RefSeq Size:</b>	3549 bp
<b>RefSeq ORF:</b>	1428 bp
<b>Locus ID:</b>	4023
<b>UniProt ID:</b>	<a href="#">P06858</a>
<b>Cytogenetics:</b>	8p21.3
<b>Domains:</b>	lipase, PLAT
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Glycerolipid metabolism, PPAR signaling pathway
<b>Gene Summary:</b>	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]