

Product datasheet for **SC120026**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120026 sequence for NM_000237 edited (data generated by NextGen Sequencing)
 ATGGAGAGCAAAGCCCTGCTCGTCTGACTCTGGCCGTGGCTCCAGAGTCTGACCGCC
 TCCCGCGAGGGGTGGCCGCCGCCGACCAAGAAGAGATTTTATCGACATCGAAAGTAA
 TTTGCCCTAAGGACCCCTGAAGACACAGCTGAGGACACTTGCCACCTCATTCCCGGAGTA
 GCAGAGTCCGTGGCTACCTGTCAATTTCAATCACAGCAGCAAAACCTTCATGGTGATCCAT
 GGCTGGACGGTAACAGGAATGTATGAGAGTTGGGTGCCAAAACCTGTGGCCGCCCTGTAC
 AAGAGAGAACCAGACTCCAATGTATTGTGGTGGACTGGCTGTACGGGCTCAGGAGCAT
 TACCCAGTGTCCCGGGCTACACCAAACCTGGTGGGACAGGATGTGGCCCGGTTTATCAAC
 TGGATGGAGGAGGAGTTAACTACCCTCTGGACAATGTCCATCTCTTGGGATACAGCCTT
 GGAGCCCATGCTGCTGGCATTGCAGGAAGTCTGACCAATAAGAAAGTCAACAGAATTACT
 GGCCTCGATCCAGCTGGACCTAACTTTGAGTATGCAGAAGCCCGAGTCGTCTTTCTCT
 GATGATGCAGATTTGTAGACGTCTTACACACATTCACCAGAGGGTCCCCTGGTCGAAGC
 ATTGGAATCCAGAAACCAGTTGGGCATGTTGACATTTACCCGAATGGAGGACTTTTCAG
 CCAGGATGTAACATTGGAGAAGCTATCCGCGTGATTGCAGAGAGAGGACTTGGAGATGTG
 GACCAGCTAGTGAAGTGCTCCACGAGCGCTCCATTCATCTCTTATCGACTCTCTGTTG
 AATGAAGAAAATCCAAGTAAGGCCCTACAGGTGCAGTTCGAAGGAAGCCTTTGAGAAAGGG
 CTCTGCTTGTAGTTGTAGAAAAGACCGCTGCAACAATCTGGGCTATGAGATCAATAAAGTC
 AGAGCCAAAAGAAGCAGCAAAATGTACCTGAAGACTCGTTCTCAGATGCCCTACAAAGTC
 TTCCATTACCAAGTAAAGATTCAATTTTTCTGGGACTGAGAGTGAACCCATACCAATCAG
 GCCTTTGAGATTTCTCTGTATGGCACCTGGCCGAGAGTGAGAACATCCCATTACTCTG
 CCTGAAGTTTCCAAAATAAGACATACTCTTCTCAATTTACACAGAGGTAGATATTGGA
 GAACTACTCATGTTGAAGCTCAAATGGAAGAGTGATTCACTTTAGCTGGTCAGACTGG
 TGGAGCAGTCCCGGCTTCGCCATTCAGAAGATCAGAGTAAAAGCAGGAGAGACTCAGAAA
 AAGGTGATCTTCTGTTCTAGGGAGAAAGTCTCATTTCAGAAAAGGAAAGGCACCTGCG
 GTATTTGTGAAATGCCATGACAAGTCTCTGAATAAGAAGTCAGGCTGA

Clone variation with respect to NM_000237.2
 1164 c=>a

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000237 unedited
 TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTCCCCCTCTTCT
 CCTCCTCAAGGGAAGCTGCCACTTCTAGCTGCCCTGCCATCCCCTTTAAAGGGCGACT
 TGCTCAGCGCAAACCGCGGCTCCAGCCCTCTCCAGCCTCCGGCTCAGCCGGCTCATCAG
 TCGGTCCGCGCCTTGACCTCTCCAGAGGGACGCGCCCCGAGATGGAGAGCAAAGCCCT
 GCTCGTGCTGACTCTGGCCGTGTGGCTCCAGAGTCTGACCGCCTCCCGCGAGGGGTGGC
 GCCTCCGACCAAAGAAGAGATTTTATCGACATCGAAAAGTAAATTTGCCCTAAGGACCCG
 TGAAGACACAGCTGAGGACACTTGCCACCTCATTCCCGGAGTAGCAGAGTCCGTGGCTAC
 CTGTCAATTTCAATCACAGCAGCAAAACCTTCATGGTGATCCATGGCTGGACGGTAACAGG
 AATGTATGAGAGTTGGGTGCCAAAACCTGTGGCCGCCCTGTACAAGAGAGAACCAGACTC
 CAATGTCAATGTGGTGGACTGGCTGTCACGGGCTCAGGAGCATTACCCAGTGTCCGCGG
 CTACACCAAACCTGGTGGGACAGGATGTGGCCCGGTTTATCAACTGGATGGAGGAGGAGTT
 TAACTACCCTCTGGACAATGTCCATCTCTTGGGATACAGCCTTGGAGCCCATGCTGCTGG
 CATTGCAAGAAGTCTGACCAATAAGAAAGTCAACAGAATTACTGGCCTCGATCCAGCTGG
 ACCCTACTTTGAGTATGCAGAAGCCCGAGTCGTCTTTCTCTGATGATGCAGATTTGGT
 AGACGTCTTACACTTTACCAGAGGTCCCCTGGTCGAGCATGGAATCCAGAACN

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000237 unedited TGGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAATAA AATGTTGTCAATTTTATTAAGCTGATTCCATTTCTTCACACAGTTAAGTACGTTTCTT TCTTGTGTTGTTAAAGCCATTTTATAAGATTAAGTTGGCTCTGTGAGACCATCACTGAT AAAGACACATACAGTTAGCACCACATTTATAAATGCAGATAGCCACAATGACCTTTCC AATATGTACAAGCTCCATTTACACATCCACACATGTATTTACAGCTAATAAATAAATGT AAAGCCAGAACATCCTTGATATATATAGCAAAGTTTTTCGGAGCCAGAGTTCCCAGTGCT ATGTGCTGCTTTAGTGAATCTTTTAAGTTAATGCACCCTGGGTCACAACCCAAATCCAGA AATTTAATGAATTAATAAAGGGGATGCCAACAAACAATCATACTATTTTATTTTATAGTA GAGAATTCATTCCAAGCCTGATGATGTTAATCACAACTTGGTCTACTATTTATAGGCA CGATCATCTCTCAGAGAAAGGGTCGAAGTTCTGGCAGATCAGGAACAATTTCTACTCC GACATGTTCCAATACATCCCTTGATCGACTGTTTTCCCTCCGAATTATGCTGAAGGACA ACACACATGCAGAGCTTTCTAGTATGTGTTTCAGATATCACATACTTTACAGTCGGGTTCC CGAGTATAGCCTCTGAGAATTTGACATCTTTATCATTTTATATACGTAGAAGAGC ATTCTGAAAAATAGGAGATCTAGNTTATAAANTAGTGGTCACTCACTCCTGATATAGTGN TAAAAACAACAATTACACCCTCATGGTACTNCACTGGGCTCATTGCACGCGATGGTTTA CAAGCACTGCTTAGGAACCCACCCAGGAACCTTTCCACCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_000237
Insert Size:	3670 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:	<ol style="list-style-type: none"> 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]