

Product datasheet for **RG201637**

Lysosomal acid lipase (LIPA) (NM_000235) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lysosomal acid lipase (LIPA) (NM_000235) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lysosomal acid lipase
Synonyms:	CESD; LAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201637 representing NM_000235 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATGCGGTTCTTGGGTTGGTGGTCTGTTTGGTTCTTGCCCTGCATTCTGAGGGTCTGGAG
GAAACTGACAGCTTTGGATCCTGAAACAAACATGAATGTGAGTGAAATTATCTTACTGGGATTCCC
TAGTGAGGAATACCTAGTTGAGACAGAAGATGGATATATCTGTGCCTTAACCGAATTCCTCATGGGAGG
AAGAACCATTCTGACAAAGGTCCAAACCAGTTGTCTTCTGCAACATGGCTTGCTGGCAGATTCTAGTA
ACTGGGTCACAAACCTTGCCAACAGCAGCCTGGGCTTCATTCTTGCTGATGCTGGTTTTGACGTGTGGAT
GGCAACAGCAGAGGAAATACCTGGTCTCGGAAACATAAGACACTCTCAGTTTCTCAGGATGAATTCGG
GCTTTCAGTTATGATGAGATGGCAAAATATGACCTACCAGCTTCCATTAACCTCATTCTGAATAAACTG
GCCAAGAACAAGTGATTTATGTGGGTCATTCTCAAGGCACCACTATAGGTTTTATAGCATTTTCACAGAT
CCCTGAGCTGGCTAAAAGGATTAATGTTTTTGGCCCTGGTCTGTGGCTTCCGTCGCTTCTGTACT
AGCCCTATGGCCAAATAGGACGATTACCAGATCATCTCATTAAAGGACTTATTTGGAGACAAAGAATTC
TCCCCAGAGTGCCTTTTGAAGTGGCTGGTACCCACGTTTGCCTCATGTCATACTGAAGGAGCTCTG
TGGAAATCTCTGTTTCTCTGTGTGGATTTAATGAGAGAAATTTAAATATGTCTAGAGGGATGATAT
ACAACACATTCTCTGCTGGAACCTCTGTGCAAAACATGTTACACTGGAGCCAGGCTGTTAAATCCAAA
AGTTTTCAAGCCTTTGACTGGGGAAGCAGTGCCAAGAATTTTTCATTACAACCAGATTTATCCTCCAC
ATACAATGTGAAGGACATGCTTGTGCCGACTGCAGTCTGGAGCGGGGTACGACTGGCTTGACAGATGTC
TACGACGTCAATATCTTACTGACTCAGATCACCAACTGGTGTCCATGAGAGCATTCCGGAATGGGAGC
ATCTTGACTTCATTTGGGCCTGGATGCCCTTGGAGGCTTTATAATAAAATTATTAATCTAATGAGGAA
ATATCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201637 representing NM_000235
 Red=Cloning site Green=Tags(s)

MKMRFLGLVVCLVLWPLHSEGSGGKLTALDPETNMNVSEIISYWGFPSSEYLVETEDGYILCLNRI PHGR
 KNHSDKGPKPVVFLQHGLLADSSNWVTNLANSLSGLF ILADAGFDVWMGNSRGTWSRKHKTL SVSQDEFW
 AFSYDEMAKYDLPASINFILNKTGQEQVYVGHSGQTTIGFIAFSQIPELAKRIKMFFALGPVASVAFCT
 SPMAKLGRLPDHLIKDLFGDKEFLPQSAFLKWLGTHVCTHVILKELCGNLCFLLCGFNERNLNMSRVDVY
 TTHSPAGTSVQNMLHWSQAVKFKQFQAFDWGSSAKNYFHYNQSYPPTYNVKDMLVPTAVWSGGHDWLADY
 YDYNILLTQITNLV FHESIPEWEHLDFIWGLDAPWRLYNKIINLMRKYQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000235

ORF Size: 1197 bp

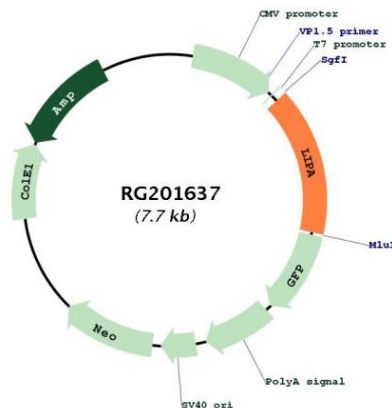
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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:	<u>NM_000235.2, NP_000226.2</u>
RefSeq Size:	2654 bp
RefSeq ORF:	1200 bp
Locus ID:	3988
UniProt ID:	<u>P38571</u>
Cytogenetics:	10q23.31
Domains:	abhydrolase, abhydro_lipase
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Steroid biosynthesis
Gene Summary:	This gene encodes lipase A, the lysosomal acid lipase (also known as cholesterol ester hydrolase). This enzyme functions in the lysosome to catalyze the hydrolysis of cholesteryl esters and triglycerides. Mutations in this gene can result in Wolman disease and cholesteryl ester storage disease. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2014]

Product images:



Circular map for RG201637