

## Product datasheet for **RG225622**

### Lysosomal acid lipase (LIPA) (NM\_001127605) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lysosomal acid lipase (LIPA) (NM_001127605) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LIPA
Synonyms:	CESD; LAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225622 representing NM_001127605 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAATGCGGTTCTTGGGGTTGGTGGTCTGTTTGGTTCTCTGGACCCTGCATTCTGAGGGTCTGGAG  
GGAACACTGACAGCTGTGGATCCTGAAACAAACATGAATGTGAGTGAAATTATCTTACTGGGGATTCCC  
TAGTGAGGAATACCTAGTTGAGACAGAAGATGGATATATCTGTGCCTTAACCGAATTCCTCATGGGAGG  
AAGAACCATTCTGACAAAGGTCCCAACCAGTTGTCTTCTGCAACATGGCTTGCTGGCAGATTCTAGTA  
ACTGGGTCACAAACCTTGCCAACAGCAGCCTGGGCTTCATTCTTGCTGATGCTGGTTTTGACGTGTGGAT  
GGCAACAGCAGAGGAAATACCTGGTCTCGGAAACATAAGACACTCTCAGTTTCTCAGGATGAATTCGG  
GCTTTCAGTTATGATGAGATGGCAAAATATGACCTACCAGCTTCCATTAACCTTATTCTGAATAAACTG  
GCCAAGAACAAGTGATTTATGTGGGTCACTTCTCAAGGCACCACTATAGGTTTTATAGCATTTTCACAGAT  
CCCTGAGCTGGCTAAAAGGATTAATGTTTTTGGCCCTGGTCTGTGGCTTCCGTCGCTTCTGTACT  
AGCCCTATGGCCAAATAGGACGATTACCAGATCATCTCATTAAAGGACTTATTTGGAGACAAAGAATTC  
TCCCCAGAGTGCCTTTTGAAGTGGCTGGGTACCCACGTTTGCCTCATGTCATACTGAAGGAGCTCTG  
TGGAAATCTCTGTTTTCTCTGTGTGGATTTAATGAGAGAAATTAATATGTCTAGAGTGGATGTATAT  
ACAACACTTCTCTGCTGGAACCTCTGTGCAAAACATGTTACACTGGAGCCAGGCTGTTAAATCCAAA  
AGTTTTCAAGCCTTTGACTGGGGAAGCAGTGCCAAGAATTAATTTTATTACAACCAGAGTTATCCTCCAC  
ATACAATGTGAAGGACATGCTTGTGCCGACTGCAGTCTGGAGCGGGGTACGACTGGCTTGCAGATGTC  
TACGACGTCAATATCTTACTGACTCAGATCACCAACTGGTGTCCATGAGAGCATTCCGGAATGGGAGC  
ATCTTGACTTCATTTGGGCCTGGATGCCCTTGGAGGCTTTATAATAAAATTATTAATCTAATGAGGAA  
ATATCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225622 representing NM\_001127605  
 Red=Cloning site Green=Tags(s)

MKMRFLGLVVCLVLWTLHSEGGGKLTAVDPETNMNVSEIISYWGFPSSEYLVETEDGYILCLNRIHPGR  
 KNHSDKGPKPVVFLQHGLLADSSNWTNLANSLSGLFADAGFDVWGMNSRGNTWSRKHKTL SVSQDEFW  
 AFSYDEMAKYDLPASINFILNKTGQEQVYVGHSSQGTIGFIAFSQIPELAKRIKMFFALGPVASVAFCT  
 SPMAKLGRLPDHLIKDLFGDKEFLPQSAFLKWLGTHVCTHVILKELCGNLCFLLCGFNERNLNMSRV DVY  
 TTHSPAGTSVQNMLHWSQAVKFQKFQAFDWGSSAKNYFHYNQSYPPTYNVKDMLVPTAVWSGGHDWLADY  
 YDYNILLTQITNLV FHESIPEWEHLDFIWGLDAPWRLYNKIINLMRKYQ

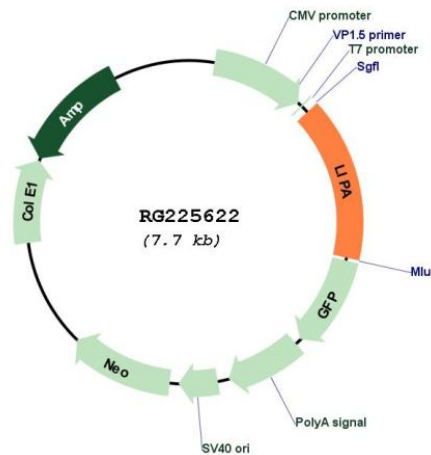
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001127605

<b>ORF Size:</b>	1197 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001127605.3</a>
<b>RefSeq Size:</b>	2669 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	3988
<b>UniProt ID:</b>	<a href="#">P38571</a>
<b>Cytogenetics:</b>	10q23.31
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysosome, Steroid biosynthesis
<b>Gene Summary:</b>	<p>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]</p>