

Product datasheet for **RG237161**

Lysosomal acid lipase (LIPA) (NM_001288979) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lysosomal acid lipase (LIPA) (NM_001288979) 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:	>RG237161 representing NM_001288979. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCAACAGCAGAGGAAATACCTGGTCTCGAAACATAAGACACTCTCAGTTTCTCAGGATGAATTC
TGGGCTTTCAGTTATGATGAGATGGCAAATATGACCTACCAGCTTCCATTAACCTCATTCTGAATAAA
ACTGGCCAAGAACAAGTGTATTATGTGGGTCACTCAAGGCACCACTATAGGTTTTATAGCATTTTCA
CAGATCCCTGAGCTGGCTAAAAGGATTAATGTTTTTGCCTGGGCTGTGGCTCCGTCGCCCTTC
TGTACTAGCCCTATGGCCAAATTAGGACGATTACCAGATCATCTCATTAAAGGACTATTTGGAGACAAA
GAATTTCTTCCCAGAGTGCCTTTTGAAGTGGCTGGGTACCCAGTTTGCCTCATGTCATACTGAAG
GAGCTCTGTGAAATCTCTGTTTTCTTCTGTGTGGATTAATGAGAGAAATTAATATGTCTAGAGTG
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AAATCCAAAAGTTTCAAGCCTTTGACTGGGGAAGCAGTGCCAAGAATATTTTTCATTACAACAGAGT
TATCCTCCACATACAATGTGAAGGACATGCTTGTGCCGACTGCAGTCTGGAGCGGGGTACGACTGG
CTTGAGATGTCTACGACGTCAATATCTTACTGACTCAGATCACCAACTTGGTGTCCATGAGAGCATT
CCGGAATGGGAGCATCTTGACTTCATTTGGGGCCTGGATGCCCTTGGAGGCTTTATAATAAAATATT
AATCTAATGAGGAAATATCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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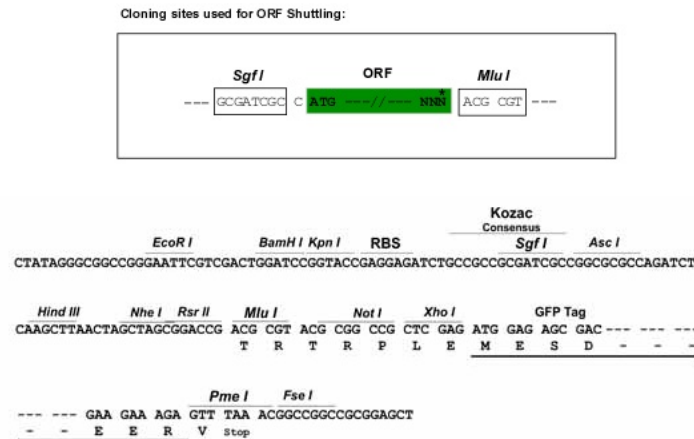
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Protein Sequence: >Peptide sequence encoded by RG237161
 Blue=ORF Red=Cloning site Green=Tag(s)

MGNSRGNTWSRKHKTLVSVSQDEFWAFSYDEMAKYDLPASINFILNKTGQEQVYVGHSSQGTITIGFIAFS
 QIPELAKRIKMFALGPVASVAFCTSPMAKLGRLPDHLIKDLFGDKEFLPQSAFLKWLGHVCTHVILK
 ELCGNLCLFLLCGFNERNLNMSRDVYTTHTSPAGTSVQNMLHWSQAVKFKQFAFDWGS SAKNYFHYNQ S
 YPPTYNVKMDLVPTAVWSGGHDWLADVDVYNILLTQITNLVFHESIPEWEHLDFIWGLDAPWRLYNKII
 NLMRKYQ
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001288979

ORF Size: 849 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).

RefSeq: [NM_001288979.1](#), [NP_001275908.1](#)

RefSeq Size: 2545 bp

RefSeq ORF: 852 bp

Locus ID: 3988
UniProt ID: [P38571](#)
Cytogenetics: 10q23.31
Protein Families: Druggable Genome
Protein Pathways: Lysosome, Steroid biosynthesis
MW: 33 kDa

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 RG237161