

Product datasheet for **RC237161**

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:	Myc-DDK
Symbol:	LIPA
Synonyms:	CESD; LAL
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237161 representing NM_001288979 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCAACAGCAGAGGAAATACCTGGTCTCGGAAACATAAGACACTCTCAGTTTCTCAGGATGAATTCT
GGGCTTTCAGTTATGATGAGATGGCAAAATATGACCTACCAGCTTCCATTAACCTCATTCTGAATAAAAC
TGGCCAAGAACAAGTGTATTATGTGGGTCATTCTCAAGGCACCACTATAGGTTTTATAGCATTTCACAG
ATCCCTGAGCTGGCTAAAAGGATTAATGTTTTTGGCCCTGGTCTGTGGCTTCCGTCGCCTTCTGTA
CTAGCCCTATGGCCAAATTAGGACGATTACCAGATCATCTCATTAAAGACTTATTTGGAGACAAAGAATT
TCTTCCCCAGAGTGCGTTTTTGAAGTGGCTGGGTACCCACGTTTGCACCTCATGTCATACTGAAGGAGCTC
TGTGGAATCTCTGTTTTCTTGTGTGGATTTAATGAGAGAAATTTAAATATGTCTAGAGTGGATGTAT
ATACAACACATTCTCCTGCTGGAACCTCTGTGCAAAACATGTTACACTGGAGCCAGGCTGTTAAATTCCA
AAAGTTTCAAGCCTTTGACTGGGAAGCAGTGCCAAGAATTTTTCATTACAACCAGAGTTATCCTCCC
ACATACAATGTGAAGGACATGCTTGTGCCGACTGCAGTCTGGAGCGGGGTCACGACTGGCTTGCAGATG
TCTACGACGTCAATATCTTACTGACTCAGATCACCAACTTGGTGTCCATGAGAGCATTCCGGAATGGGA
GCATCTTGACTTCAATTTGGGGCCTGGATGCCCTTGGAGGCTTTATAATAAAATTATTAATCTAATGAGG
AAATATCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237161 representing NM_001288979
Red=Cloning site Green=Tags(s)

MGNSRGN TWSRKHK T LSVSQDEFWAF SYDEMAKYDLPASINFILNKTGQEQVYVYVGHSSQGTITIGFIAFSQ
 IPELAKRIKMF FALGPVASVAFCTSPMAKLGR LDPHLIKDLFGDKEFLPQSAFLKWLGTHVCTHVILKEL
 CGNL CFLLCGFNERNLNMSRVDVYTTHTSPAGTSVQNMLHWSQAVKFQKFQAFDWGSSAKNYFHYNQSYPP
 TYNVKDMLVPTAVWSGGHDWLADVYDVNILLTQITNLVFHESIPEWEHLDFIWGLDAPWRLYNKIINLMR
 KYQ

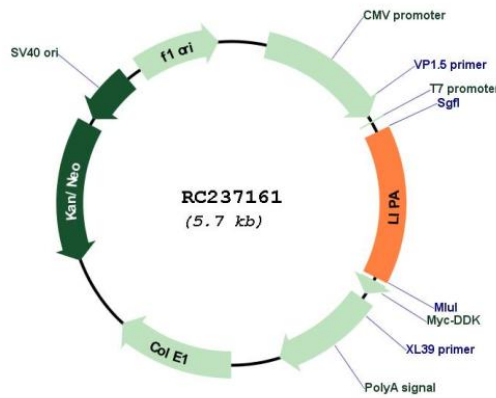
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
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_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]