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Product datasheet for RC225622

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:	Myc-DDK
Symbol:	Lysosomal acid lipase
Synonyms:	CESD; LAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC225622 representing NM_001127605
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAATGCGGTTCTTGGGGTTGGTGGTCTGTTTGGTTCTCTGGACCCTGCATTCTGAGGGGTCTGGAG
GGAAACTGACAGCTGTGGATCCTGAAACAAACATGAATGTGAGTGAAATTATCTCTTACTGGGGATTCCC
TAGTGAGGAATACCTAGTTGAGACAGAAGATGGATATATTCTGTGCCTTAACCGAATTCCTCATGGGAGG
AAGAACCATTCTGACAAAGGTCCCAAACCAGTTGTCTTCCTGCAACATGGCTTGCTGGCAGATTCTAGTA
ACTGGGTCACAAACCTTGCCAACAGCAGCCTGGGCTTCATTCTTGCTGATGCTGGTTTTGACGTGTGGAT
GGGCAACAGCAGAGGAAATACCTGGTCTCGGAAACATAAGACACTCTCAGTTTCTCAGGATGAATTCTGG
GCTTTCAGTTATGATGAGATGGCAAAATATGACCTACCAGCTTCCATTAACTTCATTCTGAATAAAACTG
GCCAAGAACAAGTGTATTATGTGGGTCATTCTCAAGGCACCACTATAGGTTTTATAGCATTTTCACAGAT
CCCTGAGCTGGCTAAAAGGATTAAAATGTTTTTTGCCCTGGGTCCTGTGGCTTCCGTCGCCTTCTGTACT
AGCCCTATGGCCAAATTAGGACGATTACCAGATCATCTCATTAAGGACTTATTTGGAGACAAAGAATTTC
TTCCCCAGAGTGCGTTTTTGAAGTGGCTGGGTACCCACGTTTGCACTCATGTCATACTGAAGGAGCTCTG
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ACAACACATTCTCCTGCTGGAACTTCTGTGCAAAACATGTTACACTGGAGCCAGGCTGTTAAATTCCAAA
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ATACAATGTGAAGGACATGCTTGTGCCGACTGCAGTCTGGAGCGGGGGTCACGACTGGCTTGCAGATGTC
TACGACGTCAATATCTTACTGACTCAGATCACCAACTTGGTGTTCCATGAGAGCATTCCGGAATGGGAGC
ATCTTGACTTCATTTGGGGCCTGGATGCCCCTTGGAGGCTTTATAATAAAATTATTAATCTAATGAGGAA
ATATCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

```
>RC225622 representing NM_001127605
Red=Cloning site Green=Tags(s)

MKMRFLGLVVCLVLWTLHSEGSGGKLTAVDPETNMNVSEIISYWGFPSEEYLVETEDGYILCLNRIPHGR
KNHSDKGPKPVVFLQHGLLADSSNWVTNLANSSLGFILADAGFDVWMGNSRGNTWSRKHKTLSVSQDEFW
AFSYDEMAKYDLPASINFILNKTGQEQVYYVGHSQGTTIGFIAFSQIPELAKRIKMFFALGPVASVAFCT
SPMAKLGRLPDHLIKDLFGDKEFLPQSAFLKWLGTHVCTHVILKELCGNLCFLLCGFNERNLNMSRVDVY
TTHSPAGTSVQNMLHWSQAVKFQKFQAFDWGSSAKNYFHYNQSYPPTYNVKDMLVPTAVWSGGHDWLADV
YDVNILLTQITNLVFHESIPEWEHLDFIWGLDAPWRLYNKIINLMRKYQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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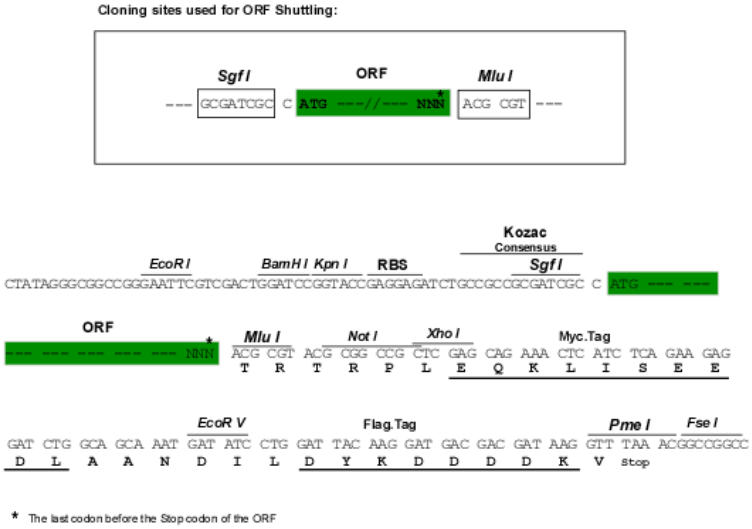
Chromatograms: https://cdn.origene.com/chromatograms/mk6523_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001127605

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

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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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001127605.3
RefSeq ORF:	1200 bp
Locus ID:	3988
UniProt ID:	P38571
Cytogenetics:	10q23.31
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Steroid biosynthesis
MW:	45.42 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]

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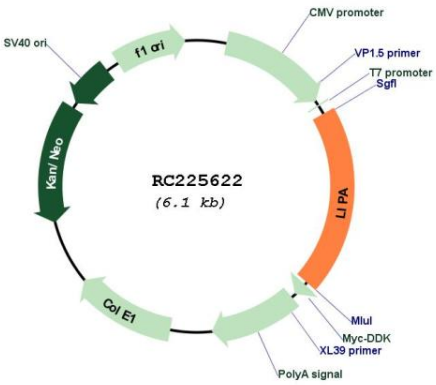
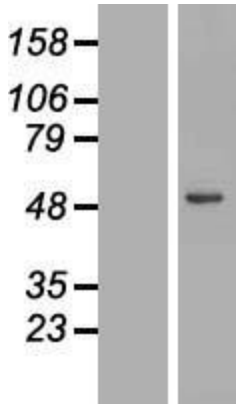
Product images:



Circular map for RC225622



Western blot validation of overexpression lysate (Cat# [LY426820]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225622 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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