

Product datasheet for **RC204998**

LYPLAL1 (NM_138794) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYPLAL1 (NM_138794) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LYPLAL1
Synonyms:	Q96AV0
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204998 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCGGCTGCGTCGGGGTCGGTTCTGCAGCGCTGTATCGTGTCCGGCAGGGAGGCATAGCGCCTCTC
TGATCTTCCTGCATGGCTCAGGTGATTCTGGACAAGGATTAAGAATGTGGATCAAGCAGGTTTTAAATCA
AGATTTAACATTCCAACACATAAAATTATTTATCCAACAGCTCCTCCAGATCATATACTCCTATGAAA
GGAGGAATCTCCAATGTATGGTTTGACAGATTTAAATAACCAATGACTGCCAGAACACCTTGAATCAA
TTGATGTCATGTGTCAAGTGCTTACTGATTTGATTGATGAAGAAGTAAAAAGTGGCATCAAGAAGAACAG
GATATTAATAGGAGGATTCTCTATGGGAGGATGCATGGCAATGCATTTAGCATATAGAAATCATCAAGAT
GTGGCAGGAGTATTTGCTCTTTCTAGTTTTCTGAATAAAGCATCTGCTGTTTACCAGGCTCTTCAGAAGA
GTAATGGTGTACTTCCTGAATTATTTCACTGTCATGGTACTGCAGATGAGTTAGTTCTTCATTCTTGGGC
AGAAGAGACAACTCAATGTAAAATCTCTAGGAGTGACCACGAAGTTTCATAGTTTTCCAAATGTTTAC
CATGAGCTAAGCAAACTGAGTTAGACATATTGAAGTTATGGATTCTTACAAAGCTGCCAGGAGAAATGG
AAAAACAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204998 protein sequence
 Red=Cloning site Green=Tags(s)

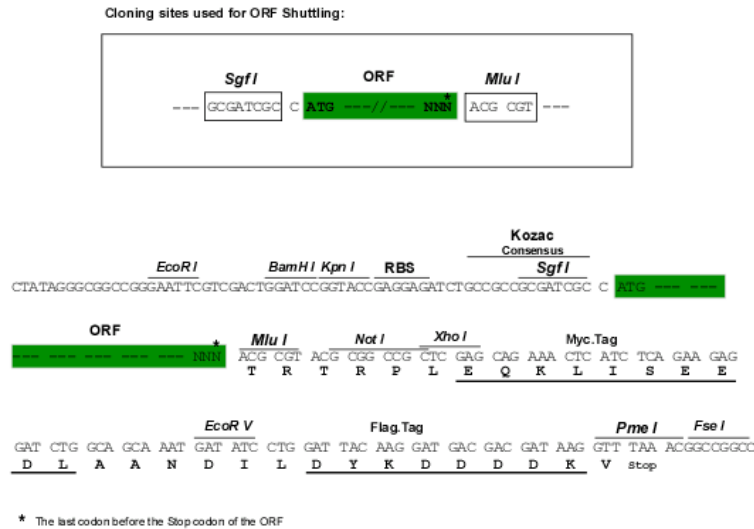
MAAASGSVLQRCIVSPAGRHSASLIFLHGSGDSGQGLRMWIKQVLNQDLTFQHIKIIYPTAPPRSYPMPK
 GGISNVWFDRFKITNDCEPHLESIDVMCQVLTDLIDEEVKSGIKKNRILIGGFSMGGCMAMHLAYRNHQD
 VAGVFALSSFLNKASAVYQALQKSNGVLPFLFQCHGTADLVLHSAEETNSMLKSLGVTTKFHSFPNVY
 HELSKTELDILKLWILTKLPGEKQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6421_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138794

ORF Size: 711 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:

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_138794.3](#)

RefSeq Size: 1922 bp

RefSeq ORF: 714 bp

Locus ID: 127018

UniProt ID: [Q5VWZ2](#)

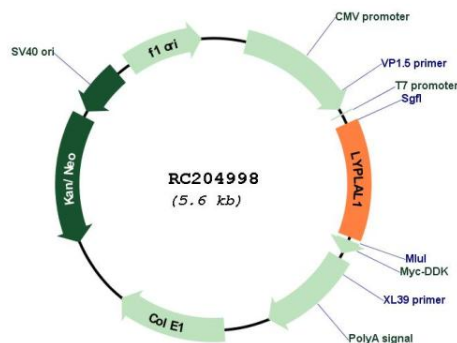
Cytogenetics: 1q41

Domains: abhydrolase_2

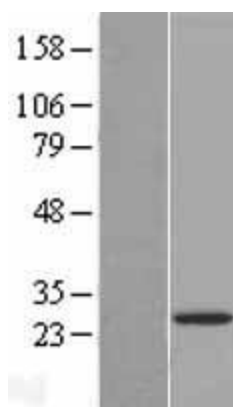
MW: 26.3 kDa

Gene Summary: Has depalmitoylating activity toward KCNMA1. Does not exhibit phospholipase nor triacylglycerol lipase activity, able to hydrolyze only short chain substrates due to its shallow active site.[UniProtKB/Swiss-Prot Function]

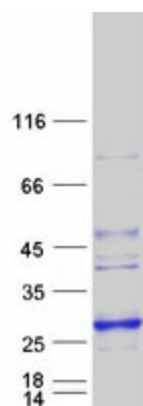
Product images:



Circular map for RC204998



Western blot validation of overexpression lysate (Cat# [LY408395]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204998 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LYPLAL1 protein (Cat# [TP304998]). The protein was produced from HEK293T cells transfected with LYPLAL1 cDNA clone (Cat# RC204998) using MegaTran 2.0 (Cat# [TT210002]).