

Product datasheet for RC209729

Hormone sensitive lipase (LIPE) (NM_005357) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hormone sensitive lipase (LIPE) (NM_005357) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hormone sensitive lipase
Synonyms:	AOMS4; FPLD6; HSL; LHS; REH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209729 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCAGGTTCTAAGTCAGTGTCTAGGTCAGACTGGCAACCTGAACACACCAGAGGCTATAACCC
CGCTAGAGCCTGGGCCAGAAAAGACACCCATAGCCAGCCAGAATCGAAGACTCTGCAGGGATCCAATAC
CCAACAGAAGCCTGCTTCAAACCAAGACCCCTCACCCAGCAGGAGACCCCTGCACAACATGATGCTGAA
TCCAGAAAGAACCTAGAGCCCAACAAAATCTGCTTACAAGAGGAATTTCTTGCCCCACAGAAGCCCG
CACCACAGCAATCACCTTACATCCAAGGGTGTCTCACTCAACAGGAAGCTGCCTCCCAGCAGGGACC
TGGGCTAGGAAAAGAATCTATACTCAACAGGAGCCAGCATTGAGACAAAAGACATGTAGCCAGCCAGGG
CCTGGGCCAGGAGAGCCACCTCCAGCTCAACAAGAAGCTGAATCAACACCTGCGGCCAGGCTAAACCTG
GAGCCAAAAGGGAGCCATCTGCCCGACTGAATCTACGTCCCAAGAGACACCTGAACAGTCAGACAAGCA
AACACGCCAGTCCAGGGAGCCAAATCCAAGCAGGGATCTTTGACAGAGCTGGGATTTCTAACAAAACCT
CAGGAATATCCATACAGCGATCAGCCCTAGAGTGAAGGCACTTTCTGAGTGGGTCACAGATTCTGAGT
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TGCGCACAATGACACAGTCGCTGGTACTCTGGCGGAGGACAACATAGCCTTCTTCTCGAGCCAGGGTCC
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CCGCCGACGATCTTCTCCGACACAGCCACAACCTGGCCGAGCTGGAGGCTACCTGGCTGCCCTCACC
CAGCTCCGCTCTGGTCTACTACGCCAGCGCTGCTGGTTACCAATCGGCCGGGGTACTCTTCTTTG
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TCCTTCGGGGAGCACTACAAACGCAACGAGACAGGCCTCAGTGTGGCCGCCAGCTCTCTTCCACCAGCG
 GCCGCTTGGCCATCGACCCCGAGCTGCGTGGGGCTGAGTTTGGCGGATCACACAGAACCTGGACGTGCA
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 CTCACTCTCCCGCCGAGCCGGCCGAGCGGGGAGACGGGGGCTGCGGGGTAGACGGGGGCTGCGGGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209729 protein sequence
 Red=Cloning site Green=Tags(s)

MEPGSKSVSRSDWQPEPHQRPIITPLEPGPEKTPIAQPESKTLQGSNTQQKPASNQRPLTQQETPAQHDAE
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 PGPGEPPPAQQEAEESTPAAQAKPGAKREPSAPTESTSQTPEQSDKQTPVQGAQSKQGSLELGLTKL
 QELSIQRSALWKALSEWVTDESESDVGSSTDSPTMGGMVAQGVKLGFKGKSGYKVMMSGYSGTSPH
 EKT SARNRHRYQDTASRLIHNMDLRTMTQSLVTLAEDNIAFFSSQGPGETAQRLSGVFAVGREQALGLEP
 ALGRLLGVAHLFDLPETPANGYRSLVHTARCCLAHLLHKSRYVASNRRSIFFRSHNLAELEAYLAALT
 QLRALVYVAQRLLVTNRPGVLFEGDEGLTADFLREYVTLHKGCFYGRCLGFQFPAIRPFLQTIYIGLV
 SFGEHYKRNETGLSVAASSLFTSGRFAIDPELGAEFERITQNLVDFWKAFWNITEMEVLSSLANMASA
 TVRVSRLLSLPEAFEMPLTADPTLTVTISPPLAHTGPGPVLVRLISCDLREGQDSEELSSLIKSNGQRS
 LELWPRPQQAPRSRSLIVFHGGGFVAQTSRSHEPYLKSWAQELGAPIISIDYSLAPEAPFPRALEECCF
 AYCWAIKHCALLGSTGERICLAGDSAGGNLCFTVALRAAAYGVRVPDGIMAAYPATMLQPAASPSRLLSL
 MDPLLPVLSKCVSAYAGAKTEDHSNSDQKALGMMGLVRRDALLLRDFRLGASSWLNFLLELSGRKSQ
 KMSEPIAEPMRRSVSEALAQPQGPLGTDLSLNLTLRDLRLRGNSETSSDTPMSLSAETLSPSTPSDVN
 FLLPPEDAGEEAEAKNELSPMDRGLGVRAAFPEGFHPRRSSQGATQMPLYSSPIVKNPFSPLLPDSML
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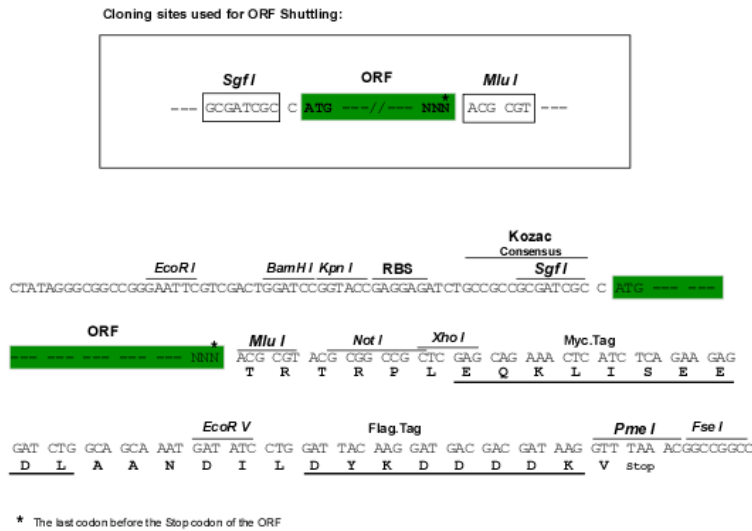
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6220_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005357

ORF Size: 3228 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.

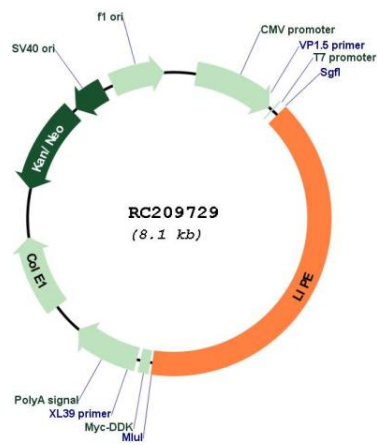
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005357.4](#)

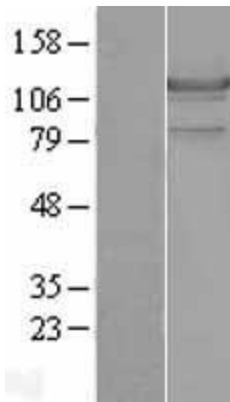
RefSeq Size: 3829 bp

RefSeq ORF: 3231 bp

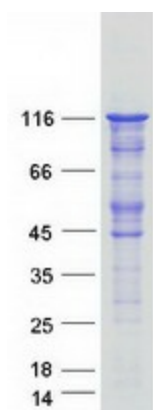
Locus ID: 3991
UniProt ID: [Q05469](#)
Cytogenetics: 19q13.2
Protein Pathways: Insulin signaling pathway
MW: 116.6 kDa
Gene Summary: The protein encoded by this gene has a long and a short form, generated by use of alternative translational start codons. The long form is expressed in steroidogenic tissues such as testis, where it converts cholesteryl esters to free cholesterol for steroid hormone production. The short form is expressed in adipose tissue, among others, where it hydrolyzes stored triglycerides to free fatty acids. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RC209729



Western blot validation of overexpression lysate (Cat# [LY417354]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209729 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LIPE protein (Cat# [TP309729]). The protein was produced from HEK293T cells transfected with LIPE cDNA clone (Cat# RC209729) using MegaTran 2.0 (Cat# [TT210002]).