

Product datasheet for **RR211842**

Lrat (NM_022280) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrat (NM_022280) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrat
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211842 representing NM_022280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAGAACTCAATGCTGGAGGCTGCGTCCCTCCTTCTGGAGAAGCTGCTCCTTATTTCCAACCTCAAGA
TCTTTAGCGTGTGCGCCCGGGAGGAGGCACAGGAAGAACAATCCCTATGAAATCAACTCTTTTCTCCG
GGTGACGTGTTGGAAGTGTACGGACCCATTTTACCCACTATGGGATCTACCTGGGGACAACCGTGTC
GCCCATCTAATGCCTGACATCCTGTTGGCCCTGACCAGTGACAAGGAACGCACTCAGAAGGTGGTCTCCA
ACAAGCGTCTCCTCCCAGGAGTCATTTGAAGGTGCCAGCATCCGTGTGGACACAGTAGAGGACTTTGC
CTATGGAGCGGACATCCTCGTCAATCACCTAGACGAGACTCTCAAGAAGAAGTCTTGCTCAATGAGGAG
GTGGCACGCAGAGCAGAGCAGCAGTTGGGGCTGACCCCTACAGCCTACTGTGGAACAACGCGAACACT
TTGTGACCTACTGCAGATACGGCTCTCCTATCAGTCCGCAGGCTGAGAAGTTTACGAGACTGTGAAGAT
ACTCATTCTGATCAGAGAAGTTGTCTTGCTTCAGCTGTCTTGGGATTAGTGTCTATTATCTACACAGGC
CTGGCATCATATATGACCCTTCTCGACTCTGCATCCCGTTCTGCTTGTGGATGATGTCTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RR211842 representing NM_022280 Red=Cloning site Green=Tags(s)
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MKNSMLEAASLLLEKLLIISNFKIFSVCAPGGGTGKKHPYEINSFLRGDVLVSRTHFTHYGIYLGDNRV
AHLMPDILLALTSKERTQKVSNKRLLPGVICKVASIRVDTVEDFAYGADILVNHLDELTKKKSLLNEE
VARRAEQQLGLTPYSLLWNNCEHFVITYCRYGSPISPQAEKFHETVKILIRDQRSCLASAVLGLVSIYTG
LASYMTLPAVCIPFCLWMMMSG

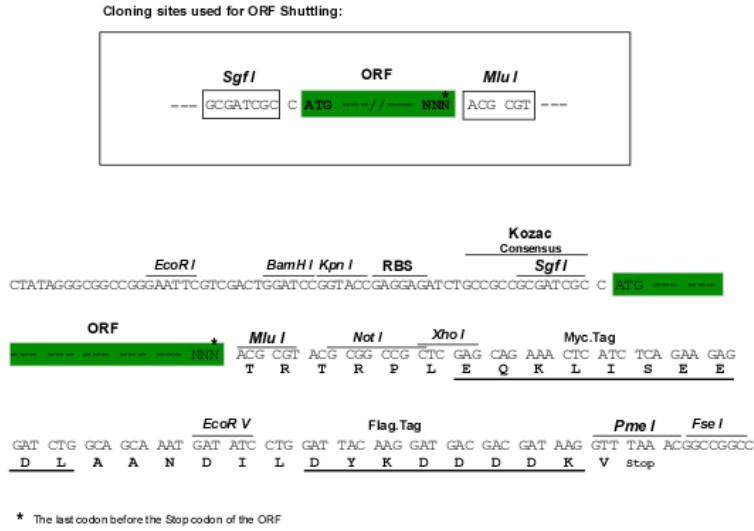
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



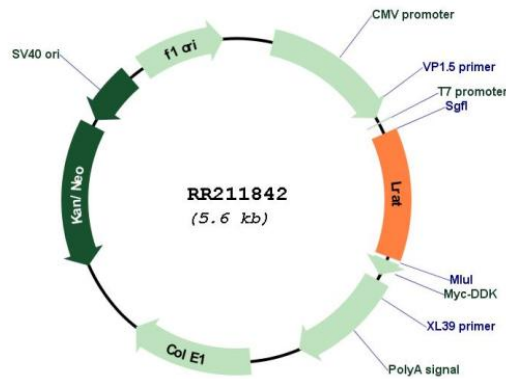
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022280

ORF Size: 693 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:	<u>NM_022280.2</u> , <u>NP_071616.1</u>
RefSeq Size:	5358 bp
RefSeq ORF:	696 bp
Locus ID:	64047
UniProt ID:	<u>Q9J161</u>
Cytogenetics:	2q34
MW:	25.8 kDa
Gene Summary:	catalyzes the transfer of the sn-1 fatty acid of phosphatidylcholine to retinol bound to a cellular retinol-binding protein; may function to divert retinol into storage during vitamin A adequacy [RGD, Feb 2006]