

Product datasheet for **RR204792**

Lias (NM_001012037) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lias (NM_001012037) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lias
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204792 representing NM_001012037 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTTACGCTGCTGGGATGCAGCTCGCAGCCTGGGGTCCCGGATATTTGGAAGATATGCGTGCTCGG
TTAGAGCATTAAAGTTCTTTGCCAGATGAGAAAAAGAAATTTTGCATAATGGGCCAGACCTCAAGATTT
TGATCTGGTGATCTTGACAGACAAGAGTACCTGGGATGATTATAAAGGAAACTTAAAGCGCCAGAAAGGA
GAAAGTTAAGACTACCTCCGTGGTTAAAGACAAAGATACCCATGGGTAAAAATTACAATAAGCTGAAAA
ATACGTTGCGGAATTTAAATCTCCACACAGTATGTGAGGAAGCCCGATGTCCAAACATCGGAGAGTGTTG
GGGAGGTGGGAAATATGCCACCGCCACAGCCACGATCATGTTGATGGGGACACATGCACAAGAGGTTGC
AGATTTTGCTCTGTTAAGACGGCAAGAAATCCCCTCCATTGGATCCCAGTGAGCCCGACAATACGGCCA
GAGCAATCGCAGAGTGGGTCTGGACTATGTTGTGCTGACGTCTGTGGACCGAGATGATGTGGTTCGATGG
GGGAGCTGAGCACATTGCCAAGACAGTGTCTGTTGAAGGAAAGGAATCCAAAAATCCTCGTGGAAATGC
CTCACCCCGACTTCGAGGAGATCTGAGAGCTGTAGAAAAGGTGGCGCTGTCTGGACTAGATGTGTATG
CACACAATGTAGAGACGGTTCAGAATTACAGAGGAAAGTCCGTGATCCCGGGCCAATTTTGACCAGTC
TCTTCGTGATTGAAACATGCCAAGGAGGTGCAGCCTGATGTTGTTTCCAAAACATCAATAATGCTGGGC
CTCGGTGAGACAGACGAGCAGGTCTATGCCACGATGAAAGCTCTCCGTGACGCCGATGTGGACTGTTTAA
CTCTCGGGCAGTATATGCAGCCGACCAAGCGCCACCTTAAGGTTGAAGAGTACGTTACTCCTGAGAAGTT
CAAATACTGGGAAGAAGTAGGAAATGAAGTTGATTTCACTACACTGCAAGTGGCCCTTTGGTGCGATCT
TCATATAAAGCAGGTGAATTTTCTGAAAAATCTAGTGGCTAAAAGAAAAACAAAAGTTTCTAAAGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204792 representing NM_001012037
 Red=Cloning site Green=Tags(s)

MALRCWDAARSLGSRIFGRYACSVRALSSLPDEKKKFLHNGPDLQDFVSGDLADKSTWDDYKGNLKRQKG
 ERLRLPPWLKTKIPMGKNYNKLNKNTLRNLNLHTVCEEARCPNIGECWGGGEYATATATIMLMGDTCTRGC
 RFCSVKTRARNPPPLDPSEPDNTARAIAEWGLDYVVLTSVDRDDVDVGGAEHIAKTVSCLKERNPKILVEC
 LTPDFRGDLRAVEKVALSGLDVYAHNVETVPELQRKVRDPRANFDQSLRVLKHAKEVQPDVVSKTSIMLG
 LGETDEQVYATMKALRAADVCLTLGQYMQPTRHLKVEEYVTPKFKYWEEVGNELGFHYTASGPLVRS
 SYKAGEFFLKNLVAKRKTKVSKV

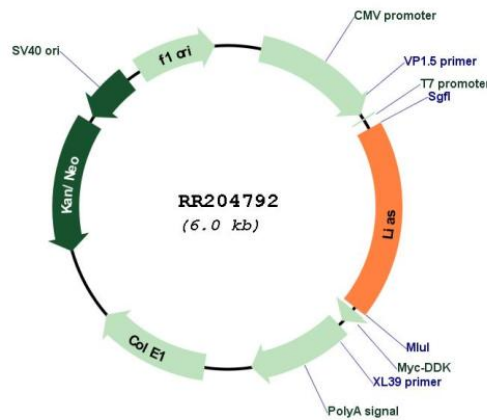
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001012037

ORF Size:	1119 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_001012037.1 , NP_001012037.1
RefSeq Size:	1636 bp
RefSeq ORF:	1122 bp
Locus ID:	305348
UniProt ID:	Q5XIH4
Cytogenetics:	14p11
MW:	41.9 kDa
Gene Summary:	Catalyzes the radical-mediated insertion of two sulfur atoms into the C-6 and C-8 positions of the octanoyl moiety bound to the lipoyl domains of lipoate-dependent enzymes, thereby converting the octanoylated domains into lipoylated derivatives.[UniProtKB/Swiss-Prot Function]