

Product datasheet for **MR231400**

Lig1 (NM_001199310) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lig1 (NM_001199310) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lig1
Synonyms:	AL033288; LigI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR231400 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAAAAAAGAGCAAGAGAGAAAGGAGAGACTTCTGCTGCCAACATGCAGAGAAGTATTATGTCAT
 TTTTTC AACCCACAAAAGAAGGTAAGCGAAGAAGCCAGAGAAGGAGACACCCAGCAGCATCAGAGAGAA
 GGAACCCCTCCAAGGTGGCGCTGAAGGAGAGGAATCAAGTGGTGCCCGAGAGTGATTCTCCAGTGAAG
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 CAGTCTGTCTTCAACTGCAGCTCCCCATGGACATCTCCCCATCAGGATTCCAAAGCGTGAAGTGGC
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 GGAAGAAAAGGAGGGGACCAGCTCATAGTCCCCTCTGAGCCACAAAGTCCCCTGAGTCAGTAACCTG
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ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >MR231400 protein sequence
 Red=Cloning site Green=Tags(s)

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MRKKEQERKGETSAANMQRSIMSFFQPTKEGKAKKPEKETPSSIREKEPPPVALKERNQVVPESDSPVK
RTGRKVAQVLSCEGEDEDEAPGTPKVQKPVSDSEQSSPPSPDTCPENSPVFNCSPPMDISPSGFPKRRTA
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TKTENIPVCKAGVKLKPQEEEQSKPPARGAKTSSFFTPRKPAVKTEVKQEEESGTLRKEETKGTLDPANY
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RLGPPQQGLELGVGDVLLKAVAQATGRQLESIRA EVAEKGDVGLVAENSRSTQRMLPPPLTISGVFT
KFCDIARLTGSASMAKKMDIIKGLFVACRHSEARYIARSLSGRLRLGLAEQSVLAALAQA VSLTPPGQEF
PTAVVDAGKGTAEARKMWLEEQGMILKQTFCEVPDLDRIPVLEHGLERLPEHCKLSPGVLPKPLAH
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LDLVVIGAYLGRGKRAGRYGGFLLAAYDEESEELQAICKLGTGFSD EEELEHHQSLQALVLPTRPRPVYRI
DGAVAPDHWLDPISIVWEVKCADLSLSPIYPAARGLVDKEKGISLRFPRFIRVRKDKQPEQATT SNQVASL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

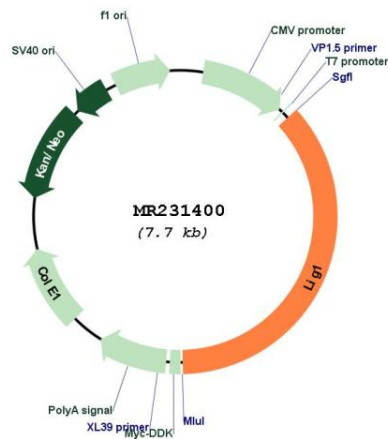
Cloning Scheme:



ACCN: NM_001199310

ORF Size: 2796 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_001199310.1, NP_001186239.1</u>
RefSeq Size:	3194 bp
RefSeq ORF:	2799 bp
Locus ID:	16881
Cytogenetics:	7 7.82 cM
MW:	104.1 kDa
Gene Summary:	DNA ligase that seals nicks in double-stranded DNA during DNA replication, DNA recombination and DNA repair.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR231400