

Product datasheet for **RR200286**

Lig1 (NM_001024268) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lig1 (NM_001024268) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lig1
Synonyms:	MGC105416
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200286 representing NM_001024268
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAGAAGTATTATGTCATTTTTTCCAACCCACAACAACAGAAGGTAAGCGAAGAAGCCAGAGAAGG
 AGATACCCAGCAGCATCAGAGAGAAGGAACCCCTCCAAAGGTGGCATTGAAGGAGAGGAATCGAGCAGT
 GCCTGAGAGTGATTCTCCAGTGAAGAGGCCAGGAAGGAAGGTGGCCAGGTTCTGAGCAGTGAAGGGGAG
 GACGAAGATGAAGCCCCTGGCACCCCCAAGTCCAAAAGCCTGTGTCAGACTCCAAAACAGAGCTCTCCTC
 CCAGCCCTGACTCCTGTCTGAGAACAGCAGCCCTCCATGGACATCTCCCATCAGGATCCCAAAGCG
 CCGAAGTGCACGGAAGCAGCTCCAAAACGACAATTCAAGACTCTTGAGGAGCACAATGAAGACAAA
 GACAAAGCAGCTAAGAAAAGGAAAAAGAAGATACACAGACCCCAACAGAAAGCCTCACAGAGGCTGAAG
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 GTCAGTAAACCTCACAAGACAGAGAACATTCCAATGTGTAAGGCAGGTGTGAAACAGAAGCCTCAGGAA
 GAAGAACAGAGCAAGCCTCCTGCCAGGGGTGCCAAGCCACTGAGCAGTTTCTTACACCCCGAAAACAG
 CAGTGAAGAACTGAAGTCAACAAGAAGAGTGCAGACTCCAAGGAAGGAAGAGACCAAGGGAGCCCCGGA
 TCCAACCAATTATAATCCTTCCAAGAGTAACTACCATCCATTGAAGATGCCTGCTGAAACATGGCCAA
 AAGGTTCTTTTCTGTGTGGCCCGGACATTTGAGAAGATTGAGGAGGTGTCTGCTCGGCTTAAGATGG
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 TCTCAGCTCAACCGCTTGGGCCGCTCAGCAGGCTAGAAGTGGGTGTTGGTGATGGTGTCTCCTC
 AAGGCAGTTGCCAGGCCACAGGTGTCAGTGGAGTCCATCCGGGCTGAGGTAGCTGAGAAGGGGATG
 TGGGCTAGTGGCGGAGAACAGCCGAGCACTCAGAGGCTCATGCTGCCCTCCACCTCACTGTTTCT
 TGGAGTCTTTACCAAATCTGTGACATTGCCCGGCTCACTGGCAGTGCTTCCATGGCCAAGAAAATGGAC
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 TGGCCAAGAATTTCCACAGCCGTGGTGGATGCTGGGAAGGGCAAGACAGCAGAGGCCAGAAAGATGTGG
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 TGCTGTGGAACATGGCTTGGAAAGTCTCCAGAGCACTGCAAGCTGAGCCAGGGGTTCTCTTAAACC
 AATGCTGGCCATCCCACTCGGGGTGCTCGTGAGGTCTGAAACGCTTTGAGGAGTCACTTCACTGC
 GAGTATAAATACGATGGGCAGCGGCACAGATACATGTTCTGGAAGGTGGAGAAGTGAAGATCTTACGA
 GAACCCAGGAAGCAACTCAGGAAAGTATCCTGACATCATCAGCCGCATCCCAAGATTAACACCCCTC
 AGTCACATCTTTCATTCTGGACTGAGGCTGTGGCCTGGGACCGGAAAAGAAGCAGATCCAGCCATTC
 CAAGTGCTCACCACACGCAAGCGCAAGGAGGTTGATGCATCGGAGATACAGGTACAAGTGTGTCTGATG
 CTTTTGACCTCATCTACCTCAACGGAGAGTCCCTGGCTCGCCAGCCCTGTCTCGACGCCGGCAGCTACT
 CCGTGAGAATTTGTGGAGACAGAGGTTGAGTTTGTCTTTGCCACCTCCTTGGACACCAAGGACATCGAG
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 GAAGATTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200286 representing NM_001024268
 Red=Cloning site Green=Tags(s)

MQRSIMSFQPTTTEGKAKKPEKEIPSSIREKEPPPKVALKERNRAVPESDSPVKRPGRKVAQVLSSEGE
 DEDEAGTPQVQKPVSDSKQSSPPSPDSCPENSSPMDISPSGFPKRRTARKQLPKRTIQDTLEEHNEDK
 DKAAKRRKKEDTQTPTESL TEAEVVKQKEEQVEDQPTVPPEPTESPEVTLTKTENIPMCKAGVKQKPQE
 EEQSKPPARGAKPLSSFFTPRKPAVKTEVKQEESDTPRKEETKGAPDPTNYPNSKSNYHPIEDACWKHGQ
 KVPFLAVARTFEKIEEVSARLKMVETLSNLLRSVVALSPTDLLPVLYLSLNLGPPQQGLELGVGDGVL
 KAVAQATGRQLESIRAIEVAEKGDVGLVAENSRSTQRLMLPPPPLTVSGVFTKFCDIARLTGSASMAKMD
 IIKGLFVACRYSEARFIARSLSGRLRLGLAEQSVLAALAQAQVSLTPPGQEFPTAVVDAGKGTAEARKMW
 LEEQGMILKQTFCEVPLDRIIPVLEHGLESLPEHCKLSPGVLPKMLAHPTRGVREVLKRFEEVDFTC
 EYKYDGGRAQIHVLEGGEVKIFSRNQEDNSGKYPDIISRIPKIKHPSVTSFILDTEAVAWDREKKQIQPF
 QVLTTRKRKEVDASEIQVQVCLYAFDLIYLNESLARQPLSRRRQLLRENFVETEGEFVFATSLDTKDIE
 QIAEFLEQSVKDSCEGLMVKTLVDATYEIAKRSHNWLKPKDYLEGVGDLDLVVIGAYLGRGKRAGRY
 GGFLLAAYDEESEELQAICKLGTGFSDLEEHHQSMQALLLPTPRPYVRIDGAVAPDHWLDPSVWVEVK
 CADLSLSPIYPAARGLVDKEKGISLRFPRFIRVREDKQPEQATTSDQVASLYRKQSQIQNQSSDLDSDV
 EDY

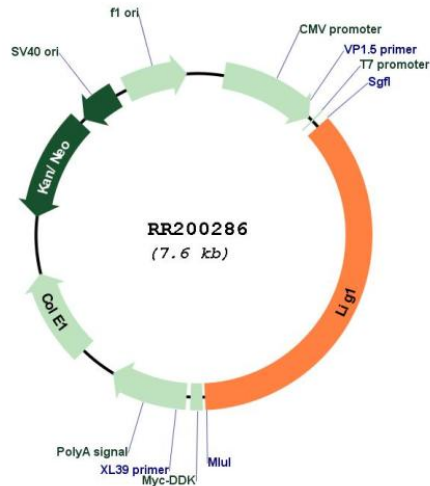
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001024268

ORF Size: 2739 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.

RefSeq: [NM_001024268.2](#), [NP_001019439.1](#)

RefSeq Size: 3069 bp

RefSeq ORF: 2742 bp

Locus ID: 81513

Cytogenetics: 1q21

MW: 101.9 kDa

Gene Summary: catalyzes the joining of blunt ended DNA [RGD, Feb 2006]