

Product datasheet for **MC229189**

Lig1 (NM_001199310) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC229189 representing NM_001199310
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGAAAAAAGAGCAAGAGAGAAAGGAGAGACTTCTGCTGCCAACATGCAGAGAAGTATTATGTCAT
 TTTTTC AACCCACAAAAGAAGGTAAGCGAAGAAGCCAGAGAAGGAGACACCCAGCAGCATCAGAGAGAA
 GGAACCCCTCCAAGGTGGCGCTGAAGGAGAGGAATCAAGTGGTGCCCGAGAGTGATTCTCCAGTGAAG
 AGGACAGGAAGGAAGGTAGCCAGGTTCTGAGCTGTGAAGGGGAGGACGAAGATGAAGCCCTGGCACCC
 CCAAAGTCCAGAAGCCTGTGTCAGACTCTGAACAGAGCTCTCTCCAGCCCTGACACATGTCCTGAGAA
 CAGTCTGTCTTCAACTGCAGCTCCCCATGGACATCTCCCCATCAGGATTCCAAAGCGTGAAGTGGC
 CGGAAGCAGCTCCCCAACGGACAATTCAGACTCTTGAAGGAGCAGAAATGAGGACAAAACAAAACAG
 CTAAGAAAAGGAAGAAAGAAGAGACCCAAAAGAAAGCCTCGCAGAGGCTGAAGACGTAACACAGAA
 GGAAGAAAAGGAGGGGACCAGCTCATAGTCCCCTCTGAGCCACAAAGTCCCCTGAGTCAGTAACCTG
 ACAAAGACAGAGAACATTCAGTGTGTAAGGCAGGAGTAAACTGAAGCCTCAGGAAGAGGAACAGAGCA
 AACCTCCTGCTAGAGGTGCCAAGACTGAGCAGTTTCTTACACCCCGAAAACAGCAGTGAAAACCTGA
 AGTCAAACAAGAAGAGTCAGGCACTCTAAGGAAGGAAGAGACCAAGGAAACCTGGATCCAGCAAATTA
 AATCCTTCCAAGAATAACTATCATCCCATTGAAGATGCCTGCTGGAAACATGGCCAGAAGTCCCTTTTC
 TCGCCGTGGCCCGGACATTTGAGAAGATTGAGGAGGTTTCTGCTAGGCTCAAGATGGTGGAGACATTGAG
 CAACCTGCTGCGTCCGTGGTGGCCCTGTCCCCTCAGACTTGTCCCTGTTCTCTATCTCAGCCTCAAC
 CGCCTCGGGCCACCTCAGCAGGACTAGAGCTGGGTGTTGGTGTGGTGTCTCCTCAAGGCCGTGGCC
 AGCCACAGGTCGTGAGTGGAGTCCATCCGGCTGAGTGTGAGAGGGGATGTGGGGCTGGTGGC
 CGAGAACAGCCGACACTCAGAGACTCATGCTGCCTCCACCTCACTTACTATTTCTGGAGTCTTCAAC
 AAATTCGTGACATTGCCCGGCTCACTGGCAGTCTTCCATGGCCAAGAAGATGGACATTATCAAGGCC
 TTTTGTGCTGCCGCACTCAGAAGCCAGGTACATTGCCAGGTCCCTAAGCGGGCGGCTGCGCCTTGG
 CCTAGCTGAGCAGTCGGTACTGGCTGCTTGGCCAGGCTGTGAGCCTCACACCCCTGGCCAAGAATTT
 CCCACGGCGGTGGTGGATGCTGGGAAGGCAAGACAGCAGAGGCCAGAAAGATGTGGTGGGAAGAACAAG
 GCATGATCTTGAAGCAGACCTTCTGTGAGGTTCTGACCTGGATCGAATCATCCCTGTGCTGCTGGAACA
 TGGCCTGGAACGCTCTCCAGAGCACTGCAAGCTGAGCCAGGGTCCCTCTTAAACCAATGCTGGCTCAT
 CCCACTCGGGGTGTCAGTGAAGTCTAAAACGCTTTGAGGAGTGCAGTTCACCTGTGAATAATAATACG
 ATGGGCAGCGAGCACAGATACATGTTCTGGAAGGTGGAGAAGTGAAGATCTCAGCAGGAACAGGAAGA
 CAACACAGGAAAGTATCCTGACATTATCAGCCGATCCCCAAGATTAACACCCCTCAGTCACATCTTTC
 ATTCTGGACACTGAGGCTGTGGCCTGGGACCGGAAAAGAAGCAGATCCAACATTCCAAGTACTCACCA
 CGCGCAAGCGCAAGGAGGTTGATGCATCGGAGATACAGGTGCAAGTGTGTCTGTATGCTTTTGACCTCAT
 CTACCTCAACGGAGAGTCCCTGGTTCGCCAGCCCTGTCTCGACGCCGGCAGTGTCCGTGAGAATTC
 GTGGAGACAGAGGGTGAAGTGTCTTACCACCTCTTGGACACCAAGGACACCGAGCAGATTGCTGAGT
 TCTTGGAGCAGTCAGTGAAGGACTCCTGTGAGGGCCTGATGGTGAAGACCTTGGATGTTGATGCCACTTA
 TGAGATTGCCAAGAGGTCACACAACCTGGCTCAAGCTGAAGAAGGACTACCTTGACGGTGTGGGTGACAT
 CTGGACCTTGTGGTGAATGGTGCCTACCTGGGCCGGGGAAGCGGGCTGGCCGGTATGGAGGCTTCTGT
 TGGCTGCCTACGATGAGGAGAGTGAAGAGCTTACGGCTATATGCAAGCTGGGAACTGGATTACAGCGATGA
 GGAGCTGGAGGAACACCACAGAGCCTGCAGGCCCTGGTATTGCCTACCCACGCCCCTATGTGAGGATT
 GATGGGGCAGTGGCCCCAGACATTGGCTGGACCAAGCATTGTGTGGGAGGTGAAGTGTGCTGATCTTT
 CCCTGTCCCCATCTACCCTGCTGCACGGGCTGGTGGACAAAGAAAAGGGATCTCTCTCGTTTTCC
 TCGGTTCAATTCGTGTCGGTAAAGACAAGCAGCCAGAGCAGGCCACTACCAGTAACAGGTTGCCTCTTG
 TACCGGAAGCAGAGTCAGATTAGAACCAACAAGCTCAGACTTGGACTCCGACGTTGAAGACT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001199310
Insert Size:	2799 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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
Gene Summary:	DNA ligase that seals nicks in double-stranded DNA during DNA replication, DNA recombination and DNA repair.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) represents the longest transcript. Variants 1, 2, and 3 encode the same protein.