

Product datasheet for **MG211169**

Lig1 (NM_010715) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lig1 (NM_010715) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lig1
Synonyms:	AL033288; LigI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211169 representing NM_010715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGAGAAGTATTATGTCATTTTTTCAACCCACAAAAGAAGGTAAGCGAAGAAGCCAGAGAAGGAGA
 CACCCAGCAGCATCAGAGAGAAGGAACCCCTCCAAGGTGGCGCTGAAGGAGAGGAATCAAGTGGTGCC
 CGAGAGTGATTCTCCAGTGAAGAGGACAGGAAGGAAGGTAGCCAGGTTCTGAGCTGTGAAGGGGAGGAC
 GAAGATGAAGCCCTGGCACCCCAAAGTCCAGAAGCCTGTGTCAGACTCTGAACAGAGCTCTCCTCCCA
 GCCCTGACACATGTCCTGAGAACAGTCTGTCTTCAACTGCAGCTCCCCATGGACATCTCCCCATCAGG
 ATTCCCAAAGCGTCGAAGTGCAGGGAAGCAGCTCCCAAACGGACAATCAAGACTCTTGAGGAGCAG
 AATGAGGACAAAACAAAACAGTAAGAAAAGGAAGAAAGAAGAGACCCAAAAGAAAGCCTCGCAG
 AGGCTGAAGACGTAACCAAGAGGAAGAAAAGGAGGGGACCAGCTCATAGTCCCCTCTGAGCCCAAAA
 GTCCTGAGTCAAGTCAACCTGACAAAGACAGAGAACATTCCAGTGTGAAGGCAGGAGTAAACTGAAG
 CCTCAGGAAGAGGAACAGAGCAAACCTCCTGCTAGAGGTGCCAAGACTGAGCAGTTTCTCACACCCC
 GAAAACAGCAGTGAAGTGAAGTCAAACAAGAAGAGTCAGGCACTCTAAGGAAGGAAGAGACCAAGGG
 AACCTGGATCCAGCAAATTATAATCCTTCCAAGAATAACTATCATCCCATTGAAGATGCCTGCTGGAAA
 CATGGCCAGAAGTCCCTTTCTCGCCGTGGCCCGGACATTTGAGAAGATTGAGGAGGTTTCTGCTAGGC
 TCAAGATGGTGGAGACATTGAGCAACCTGCTGCGCTCCGTGGTGGCCCTGTCCCCCAGACTTGCTCCC
 TGTTCTCTATCTCAGCCTCAACCGCCTCGGGCCACCTCAGCAGGACTAGAGTGGGTGTTGGTGATGGT
 GTCCTCCTCAAGCCGTGGCCAGGCCACAGTGTGCTGAGTCCATCCGGGCTGAGTGCCTGCCTCCACTGAGA
 AGGGGATGTGGGGTGGTGGCCGAGAACAGCCGAGCACTCAGAGACTCATGCTGCCTCCACTCCACT
 TACTATTTCTGGAGTCTTCAACAAATTCTGTGACATTGCCCGGCTCACTGGCAGTGTCTCCATGGCCAAG
 AAGATGGACATTATCAAGGGCCTTTTTGTGCTGCGCCACTCAGAAGCCAGGTACATTGCCAGGTCCC
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 TCATCCCTGTGCTGCTGGAACATGGCCTGGAACGTCCTCCAGAGCACTGCAAGCTGAGCCAGGGGTCCC
 TCTTAAACCAATGCTGGCTCATCCACTCGGGGTGTCAGTGAAGTCTAAAACGCTTTGAGGAGGTGAC
 TTCACCTGTGAATATAAATACGATGGGCAGCGAGCACAGATACATGTTCTGGAAGGTGGAGAAGTGAAGA
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 ACACCCCTCAGTCACATCTTTATTCTGGACACTGAGGCTGTGGCCTGGGACCGGAAAAGAAGCAGATC
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 CCTTGGATGTTGATGCCACTTATGAGATTGCCAAGAGGTCACACAACCTGGCTCAAGCTGAAGAAGGACTA
 CTTGACGGTGTGGGTGACACTTGGACCTTGTGGTATTGGTGCCTACCTGGCCGGGGAAGCGGGCT
 GGCCGGTATGGAGGCTTCTGTTGGCTGCCTACGATGAGGAGAGTGAAGAGCTTCAGGCTATATGCAAGC
 TGGAACTGGATTGAGGATGAGGAGTGGAGGAACACCACAGAGCCTGCAGGCCCTGGTATTGCCTAC
 CCCACGCCCTATGTGAGGATTGATGGGCAGTGGCCCCAGACATTGGCTGGACCAAGCATTGTGTGG
 GAGGTGAAGTGTGCTGATCTTCCCTGTCCCCATCTACCCTGCTGCACGGGGCTGGTGGACAAAAGAAA
 AAGGGATCTCTTCTGTTTTCTCGTTTATTCTGTCGTTAAAGACAAGCAGCCAGAGCAGGCCACTAC
 CAGTAACAGGTTGCCTCTTGTACCGGAAGCAGAGTCAAGTTCAGAACCAACAAAGCTCAGACTTGGAC
 TCCGACGTTGAAGACTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211169 representing NM_010715
 Red=Cloning site Green=Tags(s)

MQRSIMSFQPTKEGKAKKPEKETPSSIREKEPPPVALKERNQVVPESDSPVKRTGRKVAQVLSCEGED
 EDEAPGTPKVQKPVSDSEQSSPPSPDTCPENSPVFNCSPPMDISPSGFPKRRTARKQLPKRTIQDTLEEQ
 NEDKTKTAKKRKKEEETPKESLAEADVQKKEEKGDLIVPSEPTKSPESVTLTKTENIPVCKAGVKLK
 PQEEEEQSKPPARGAKTLSSFFTPRKPAVKTEVKQEEESGTLRKEETKGTLDPANYNPSKNNYHPIDACWK
 HGQKVPFLAVARTFEKIEEVSARLKMVETLSNLLRSVVALSPPDLLPVLVLSLNRLLGPPQQGLELGVGDG
 VLLKAVAQATGRQLESIRAEVAEKGDVGLVAENSRSTQRLMLPPPPLTISGVFTKFCDIARLTGSASMAK
 KMDIIKGLFVACRHSEARYIARSLSGRLRLGLAEQSVLAALAQAQVSLTPPGQEFPTAVVDAGKGTAEAR
 KMWLEEQGMILKQTFCEVPDLDRIPVLLHGLERLPEHCKLSPGVLPKPLAHPTRGVSEVLKRFEEVD
 FTCEYKYGQRAQIHVLEGGVIFSRNQEDNTGKYPDIISRIPKIKHPSVTSFILDTEAVAWDREKKQI
 QPFQVLTTRKRKEVDASEIQVQVCLYAFDLIYLNESLVRQPLSRRRQLLRENFVETEGEFVFTTSLDTK
 DTEQIAEFLEQSVKDSCEGLMVKTLDVDATYEAKRSHNWLKLDYLDGVGDTLDLVVIGAYLGRGKRA
 GRYGGFLLAAYDEESEELQAICKLGTGFSDLEEHHQSLQALVLPTRPVYRIDGAVAPDHWLDPISIVW
 EVKCADLSLSPYPAARGLVDKEKGISLRFPRFIRVRKDKQPEQATTSNQVASLYRKQSQIQNQSSDLD
 SDVEDY

TRTRPLE - GFP Tag - V

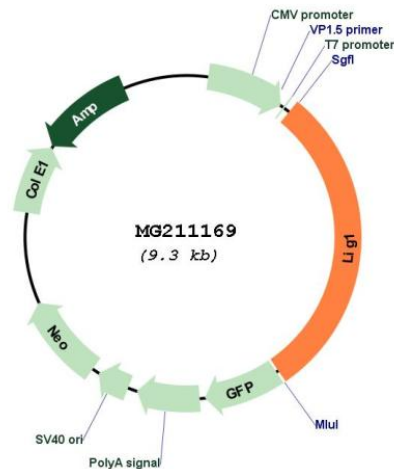
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010715

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:

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_010715.3](#)

RefSeq Size: 3111 bp

RefSeq ORF: 2799 bp

Locus ID: 16881

UniProt ID: [P37913](#)

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]