

## Product datasheet for MC204448

### Lrit1 (NM\_146245) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Lrit1 (NM\_146245) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Lrit1  
**Synonyms:** BC032270; Lrrc21  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC032270  
 CCACGCGTCCGGCAAGTGGGTAGCCGTTGGACTTACTGGACAAGCAGGACAGAGCACCTCTGGGACAGGC  
 CCCTGCCTGGGCCAAGAGGAGCCAGAAGTCATGTGGGTGGCCCTGGGCATGCTCTGGCTCCTCGCACTT  
 GGGGGACCTCACCAGGCCTGGGGCTTCTGTCTTCTGAATGCAGCTGCAGTCTGCGCATCCTGAGTGACG  
 GCAGCAAGGCCAGGACAGTGGTGTGCAGCGACCTGACTTGACTCTGCCCTCCAGCTTCGATTCTCCAGA  
 CACCTGCAAGCTGCGCTTAGAGAGAACCGCCATTGCGAGGGTGCCGGGAGAGACCTTCAGGCCTCTCAGC  
 CGCCTGGAGCAGCTGTGGCTACCTTACAATGCTCTCAGTGAGCTTAGTGCCTCATGCTCAGGGGCTGA  
 GACGCCTACGAGAGCTGCGGCTGCCTGGGAACCGCCTGGTCACGTTCCCCTGGGCTGCGTGAGGGACAC  
 TCCGCAGCTGCAGCTGCTGGACCTGCAGGCCAATCGCCTCTCGACCTGCCACCCGAGGCTGCACACTTC  
 CTGGAGAACCTTACTTTCTGGACCTGTCCAATAACCAGCTGATGAGGCTTCTGAGGAGCTACTGGACG  
 TGTGGGCTCACCTGAAGACCGGGCCCTTCTTTCCGGCCATCATGCCAGGCTAATCTTAGGGCTTCAGGA  
 CAACCCCTGGGTGTGACTGTGCGCTCTATGACCTGGTTCATCTTCTAGATGGCTGGGTTCTTCAAAC  
 CTGATCTTCATCGAGGCTAGACTGAGATGTGCCAGTCCACGCAGCCTGGCTGGAGTGGCCTTCAGCCAGC  
 TGGAGCTAAGAAAGTGTGAGAGCCAGAGCTCCGTCCAGGGGTGACCAGCATCATATCCCCTTTGGGTAG  
 CACAGTATTGCTACGTTGTGGAGCAACTGGGATCCCAGGACCTGAGATGAGCTGGAGAAGGGCCAATGGA  
 CGACCACTCAATGGCACAGTACACCAGGAAGTCTCCAGTGACGGCTCAAGTTGGACTTTGCTAGATTTGC  
 CTGTTGTGTCTCTTTGACTCTGGGGACTACATCTGCCAAGCCAAGAATTCTGGGAGCTTCTGAAAC  
 CCTGATCTCCTTGATTGTCACTGAGCCACAGACTTCTACCGGATACAGTGGGATTCCAGGTGCTCTGTGG  
 GCAAGAACAGGGGAGGGGGCAGAAGCTGTGCCTACAACAAGCTGGTGGCCAGGCATGTTCCCTCATA  
 TGCCCGAGCATGTAGCCCTGGCTACCAAGCCCTCAATGCCAGCATAAAGGAGGAGCTGGCTCTCCAGAA  
 CTTTCAGATGGATGTCCAGGAGAGTTCTCCAGAGAGCCATCAGAACCAGGAGGCACAGATGGTCAGG  
 TCTCTCAAGGTAGTAGGAGATACTACCACAGTGTGCTTTGGTGTGGAAGGCCCTCAAGCTGGGAACA  
 CAACCCGCTTTAGTGCTTTATGCAGTCTTTGGGCATCGAGACATGAGAAGGATGACTGTGGAGCCTGG  
 GAAGACTAGTGTCACTATCGAGGGACTTGTCCAAAGACCAAGTATGTGGCATGTGTCTGTGTGCGGGGC  
 TTGGTGCCTACGAAGGAGCAATGTGTCATCTTCTACTGATGAGGTAGTGGATGCAGAGGGCACCCAGC  
 GACTCATCAACATGGTGGTGTGATCAGCGTGGCCGCATCATCGCGTGCCTCCCACCTGCTGGTTTGCTG  
 TGGGGCTCTCCGAAGACGCTGCCACAAGTGCCGCACTGGGGTCTGCAGAGGCCTCTGGGGCTATGTT



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AATTTGGAAAGACTGGGCCATAGTGAGGACAGCTCAGAAGTTCTGTCCAGGAGCAGCCTCAGTGAGGGAG  
 ATAGGCTTCTCTCAGCCCGTTCCAGCCTGGACTCCCAGGTCTTGGGTGTCAGGGGCGGCAGACGCATCAA  
 TGAGTACTTCTGCTGAGTCTGAGTCCCTGTTCCACCTGCCATCCCTCTTCAGTCTCATACACTTACTTT  
 TATACCTGACTGTGTGCTCAGTACCCTGATTGTTTGGATATTTGGTAACTTGTCCATTTACATCAACAA  
 TAGTTAACACAGGGTTTTAAGCACTTACTGTGTGCCAGCAAGCATCCAAAGTACTTCATAGGTATTTACT  
 CACTTAACTTTTCATAATAACCATTTATATCAGGCATCATTTTTCTCTCTTTTCCAGGAGAAGAAACAG  
 GTGTTGAGTATTTAGCTTGATCGGTCACTTTCTGTCTAACAATGAAAGCAAAAACCTCTCTGGTAT  
 GCATCATTTAGATATGTATTTTTACACTATGTGTCTGTAGGTTGACTGGCATGGCTCTGCTACATGTGTT  
 CCACTGGGGCTCCGAGGTGGAGAACAACAATGGCTACTTGGGGCAGACTTTTCTCAGATGCCATAAGAGG  
 GAAGAGCAAAACCATGCAACACCTCTGAATGTCTTCATGTGAGACTGGCATGTTGCTGTTGCTCATGTCC  
 ATATTGTACCTGCCAAAGACAGTCTCATGGCCAAAGGCAATGTTAACGAGGCAAGCAGAGACACTAATCC  
 TCTGAAGACAACGATGGAAGACAAAACATTTTCGGAACAAATTTACTACATGGCCCACTTATAGTACTGC  
 CACTGGACAATGGCAGCCTAGCTTTGGACCAGGCAGTTGGACAATTGGTCTACTGAAAAGTCTTTACCA  
 ACCTCTATACTCTTACATCATGTTTGCCTTATACCAGTTCATGCACACATATACACAGGTTCTCTATAC  
 ATTAGCCATGTTTTGAACACACGCACACTTCACCCACACGCATCCCCCTCATTGAATTCTAACATTTAT  
 CCTTTGGGGTCTGGGAGATAATCTTGGAGAGATTCTTGGAGAATTTACTTGAATAAAATCTAAAGACT  
 GCTGCTCTTTTATTCTCAGTATGCCAGACTGGAGAGAGCCAAGGGGTTTCTACAACCTGAAGGCACCATCA  
 TAGTCAGTCTTGTCTCACACTCAGCCCATGCTCATGGAGGAGCCTTTGCAGGGTTTTCTGAAATTTTCTT  
 GGTTTTGGAGAGTATGTAGGAGCTTTTCTGGTCACCCACCATGCGAGTAGCAGGAGAATTTCTGCTGAGT  
 TTCGCCTATGGCATAGATTGCTGAGATGCTTGTGCACAGGAGTGAGTGAACGTTCTACTGAAAACCTCTG  
 TTTATTGTTTGCCTACTGAGAAGATGGGTAGCAAGTCTTTGGTAAACAATTGTGGACTCCACAGTCAGA  
 AGTGATCCGAGGAAAGTATTTAACAGCACCACCAAGATAATTGATATCATGTGAATATTGACTAGATG  
 TAAATCCCCTTATTTTCCAAAAGACCTCACACATGCCCTAACAGCCATTCTAGAGGTTGGTAATT  
 TTGATTTTTGATTTTACAGATGAAGAACTAAGAACCAAGTATATGTGCAGACAGGAGAAATGAATTTTC  
 TTTGGAATCCATGTCTTTGACAAGTTTTGGATGCTATGTCTTACTCATTAAATGATCTTTGAAGTATGGC  
 CCACAGTTTACTATGAAAACCTGAATTTTTGGTAGTCACCGAAACCTGGAATTAGAACCACAAGAACACAG  
 GTGCACACGGACATTAGAGTCACCAAACCTGATATTTTTCTGTCACCTCCATGAAGGTTGTATTTGATTA  
 TAACTTGTGGGTCATTACCATTAGCAAGAAAAGCTACTTGGTTGGACAGTAATGGCCTTGTCTGCATCAG  
 GGATCAACATGATATTTTTTGGCAAACAAAACCTGATAATGAATATTACAAGCTCTGTCTTGTCTAATGG  
 AATGGGAAAAAATAGACTACAGGTGAGTTAATGGGCATGGATGTGATCCAATAAAATGTTTACAAAAA  
 CAGATAACAAAACCTGGAATCAATATCCAATTAGCTTTACTGCATTTTGTAAAAGGAAAACAGGAACCTGA  
 AAGCAAT  
 GGAGAAAGGAGCAGAGAAAGAGAAAAAATAGGGATGGGATCAAATTTTCCAGCAGTCTAGGAGGGCTGC  
 CTTCAGGGTGTGGGTGATCATTGCCTCTAAGATGTCCAGATTCTTGATCTCAATGTATCAACTTTCTTAC  
 CTGTGTTCTGTCTCCCTGAGTTTTCTTGTAGGGAAGAGTCTTCTGGAGTGTCTTGTGGGATTTTAT  
 GTTACTAAAAACAACTCCTCTGACAAATGAATAAATAAATGGTATCTGATTTAAAAAAAAAAAAAAAAAAAA  
 AA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_146245  
**Insert Size:** 1875 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC032270](#), [AAH32270](#)

**RefSeq Size:** 4381 bp

**RefSeq ORF:** 1875 bp

**Locus ID:** 239037

**UniProt ID:** [Q8K099](#)

**Cytogenetics:** 14 B

**Gene Summary:** Possible role in phototransduction.[UniProtKB/Swiss-Prot Function]