

Product datasheet for **MR209465**

Lrit1 (NM_146245) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrit1 (NM_146245) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrit1
Synonyms:	BC032270; Lrrc21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209465 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGGTGGCCCTGGGCATGCTCTGGCTCCTCGCACTTGGGGACCTCACCAGGCTGGGGCTTCTGTC
 CTCTGAATGCAGCTGCAGTCTGCGCATCTGAGTGACGGCAGCAAGGCCAGGACAGTGGTGTGCAGCGA
 CCCTGACTTGACTCTGCCTCCAGCTTCGATTCTCCAGACACCTGCAAGCTGCGCTTAGAGAGAACCGCC
 ATTCGCAGGGTGCCGGGAGAGACCTTCAGGCTCTCAGCCGCTGGAGCAGCTGTGGCTACCTTACAATG
 CTCTCAGTGAGCTTAGTGCCCTCATGCTCAGGGCCTGAGACGCCTACGAGAGCTGCGGCTGCCTGGGAA
 CCGCTGGTACGTTCCCTGGCTGCGCTGAGGGACACTCCGCAGCTGCAGCTGCTGGACTGCAGGCC
 AATCGCTCTCGACCTTGCCACCCGAGGCTGCACACTTCTGGAGAACCTTACTTCTGGACTGTCCA
 ATAACCAGCTGATGAGGCTTCTGAGGAGCTACTGGACGTGTGGCTCACCTGAAGACCGGGCCCTTCT
 TTCGGCCATCATGCCAGGCTAATCTTAGGGCTCAGGACAACCCCTGGGTGTGTACTGTCGGCTCTAT
 GACCTGGTTCATCTTCTAGATGGCTGGTTTCTCAAACCTGATCTTCATCGAGGCTAGACTGAGATGTG
 CCAGTCCACGCAGCCTGGCTGGAGTGGCCTTCAGCCAGCTGGAGCTAAGAAAGTGTGAGAGCCAGAGCT
 CCGTCCAGGGGTGACCAGCATATATCCCTTTGGGTAGCACAGTATTGCTACGTTGTGGAGCAACTGGG
 ATCCCAGGACCTGAGATGAGCTGGAGAAGGGCCAAATGGACGACCACTCAATGGCAGAGTACACAGGAAG
 TCTCCAGTGACGGCTCAAGTTGGACTTTGCTAGATTTGCCTGTTGTGTCTCTCTTTGACTCTGGGACTA
 CATCTGCCAAGCAAGAAGCTTCTGGGAGCTTCTGAAACCCTGATCTCCTTGATTGTCACTGAGCCACAG
 ACTTCTACCGGATACAGTGGGATTCCAGGTGTCTGTGGCAAGAAGAGGGGAGGGGAGAGGAGTCTGTG
 CTAACAACAACAAGCTGGTGGCCAGGCATGTTCTCATATGCCCGAGCATGTAGCCCTGGTACCAAGCC
 CTAATGCCAGCATAAAGGAGGAGCTGGCTCTCCAGAAGCTTTCAGATGGATGTCCAGGAGAGTCTCC
 AGAGAGCCATCAGAACACCAGGAGGCACAGATGGTCAGGTCTCTCAAGGTAGTAGGAGATACTTACCACA
 GTGTGTCTTTGGTGTGGAAGGCCCTCAAGCTGGGAACACAACCGCCTTTAGTGTCTTTATGCAGTCTT
 TGGGCATCGAGACATGAGAAGGATGACTGTGGAGCCTGGGAAGACTAGTGTCACTATCGAGGGACTTGCT
 CCAAAGACCAAGTATGTGGCATGTGTCTGTGTGCGGGCTTGGTGCCTACGAAGGAGCAATGTGTCACT
 TCTCTACTGATGAGGTAGTGGATGCAGAGGGCACCCAGCGACTCATCAACATGGTGGTGTATCAGCGTGGC
 CGCCATCATCGCGCTGCCTCCACCCTGCTGGTTTGTGTGGGGCTCTCCGAAGACGCTGCCACAAGTGC
 CGCACTGGGGTTCTGCAGAGGCCTCTGGGCCTATGTTAATTTGAAAGACTGGCCATAGTGAGGACA
 GCTCAGAAAGTTCTGTCCAGGAGCAGCCTCAGTGAGGGAGATAGGCTTCTCTCAGCCGTTCCAGCCTGGA
 CTCCAGGTCTTGGTGTGAGGGCGGCAGACGCATCAATGAGTACTTCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209465 protein sequence
 Red=Cloning site Green=Tags(s)

MWVALGMLWLLALGGPHQAWGFCPSECSCLRILSDGSKARTVVCSDPDLTLPASIPPDCKLRLERTA
 IRRVPGETFRPLSRLEQLWLPYNALSEL SALMLRGLRRLRELRLPGNRLVTFPWAALRDTPQLQLDLQA
 NRLSTLPPEAAHFLENLTFDL SNNQLMRLPEELLDVWAHLKTPFLSGHHARLILGLQDNPWVDCRLY
 DLVHLLDGWVSSNLIFIEARLRCA SPRSLAGVAFSQLELRKCQSPELRPGVTSIIISPLGSTVLLRCGATG
 IPGPEMSWRRANGRPLNGTVHQEVSSDGSWTLLDLPPVSLFDSGDYICQAKNFLGASETLSLIVTEPQ
 TSTGYSGIPGVLWARTGEGAEAAAYNNKLVARHVPHMPEHVALATKPSMPSIKEELALQNFQMDVPGFES
 REPSEHQEAQMVRS LKVVGDYHSVSLVWKAPQAGNTTAFSVLYAVFGHRDMRMTVEPGKTSVTIEGLA
 PKTKYVACVVRGLVPTKEQCVIFSTDEVVDAEGTQRLINMVVISVAAIIALPPTLLVCCGALRRRCHKC
 RTGGSAEASGAYVNLERLGHSEDSSEVL SRSSLSEGDRLLSARSSLDSQVLGVRGGRRINEYFC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146245

ORF 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 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](#)

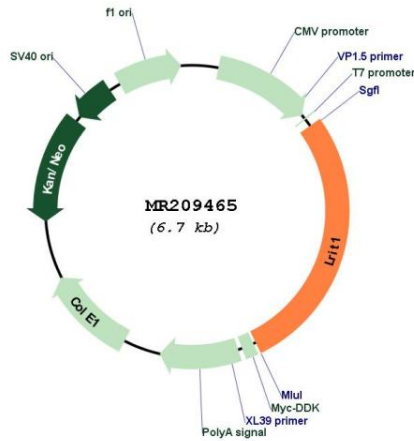
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_146245.2
RefSeq Size:	4337 bp
RefSeq ORF:	1875 bp
Locus ID:	239037
UniProt ID:	Q8K099
Cytogenetics:	14 B
MW:	68.5 kDa
Gene Summary:	Possible role in phototransduction.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209465