

Product datasheet for **MR218514**

Lrrtm2 (NM_178005) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrtm2 (NM_178005) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrtm2
Synonyms:	AI851755; BB129880; C630011A14Rik; mKIAA0416
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR218514 representing NM_178005
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGCTTACATTCAAGTGGCCATTAGGGGCCCTATGCTGGCAGCAATATATGCAATGAGTGTGGTAT
 TAAAAATGCTGCCTGCCCTGGGTATGGCGTGTCCACCTAAATGCCGCTGTGAGAAGCTGCTATTCTACTG
 CGACTCTCAGGGCTTCCACTCAGTGCCAAACGCCACAGACAAGGGTTCTTTGGGTCTGTCCCTGAGGCAC
 AATCACATCACAGCGCTTAAAGAGATCAATTTGCCAGCTTCACTCAACTCACCTGGCTCCACTTAGATC
 ACAATCAAATTTCCACAGTAAAAGAAGACGCTTTCCAAGGACTGTATAAACTAAAGGAGTTAATCTTAAG
 TTCCAACAAAATATTCTACTTGCCAAACACAACTTTTACCAACTGATTAATCTGCAAAATTTGGACCTG
 TCTTTAATCAGCTGTCATCTCTGCATCCTGAGCTTCTATGGCCTTCGGAAGCTGCAGACCTTGCAAT
 TACGTTCAAACCTCCCTGCGGACTATCCAGTACGCCTGTTCTGGGACTGTCGTAGCTAGAGTTTCTGGA
 TCTGAGCACAACCGTTTGCAGTGGCTCGAAATGGATTTGCAGGATTAATCAAACCTGAGAGAGCTT
 CATCTAGAGCACAATCAGCTGACGAAGATTAATTTTGCTCACTTCTCCGGCTAAGCAGTCTGCACACAC
 TCTTCTACAATGGAACAAAATCAGCAACTTGACGTGTGGGATGGACTGGACCTGGAGCACTTTAGAAAA
 GCTAGACCTAACTGGAATGAAATCAAAGCCATCGACTTGACAGTGTTCGAGACCATGCCTAATCTTAA
 ATACTTCTCATGGATAACAACAAGTTAAACAGTCTTGATTCCAAAATCTTAACTCCCTGAAATCCCTCA
 CGACCGTTGGCCTCTCTGGCAATCTGTGGGAATGCAGCCCCAGAGTGTGTCTCTTGCCCTCTGGCTGGG
 CAGTTTCCAAGGTCGGTGGGAGCACTCCATCCTATGCCACAGCCCTGACCACACCAAGGAGAGGATATT
 CTAGATGCAGTCCACGGGTTTCACTCTGCTGGAATTTATCAACCACTGCACTGCCATGGCTACAACCT
 ATAGAGATCCAACCACTGAATATACAAAATAAGCTCGTCGAGTTACCATGTAGGAGACAAGAAATTC
 AACTACTGCAGGCATAGCAGTCACTACAGAGGAACACTTTCTGAACCTGACAATGCCATCTTTACTCAG
 AGAGTAATTACAGGAACATGGCTTTATTGTTTTCTTTCTTTTTATTATTTTTATAGTGTTCATTTCCA
 GGAAGTGTGCCCTCCCCTTTGAGAAGAATTAGGCAGTGTCAATGATTGAGAACCACAGGCAGCTCCG
 ATCCCAACACGACTCCATATGTCAAACATGTCAGACCAAGGACCGTATAATGAGTATGAACCCACCCAT
 GAAGGACCTTTCATCATCATTAAATGGTTATGGACAGTGAAGTGTGAGCAGCTGCCATACAAGAATGTG
 AAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218514 representing NM_178005
 Red=Cloning site Green=Tags(s)

MGLHFKWPLGAPMLAAIYAMSVLKMLPALGMACPPKCRCEKLLFYCDSQGFHSPVNPATDKGSLGLSLRH
 NHITALERDQFASFSQLTWLHLDHNQISTVKEDAFQGLYKLELILSSNKIFYLPNTTFTQLINLQNLDL
 SFNQLSSLHPELFYGLRKLQTLHLRSNSLRTIPVRLFWDRCRLEFLDLSTNRLRSLARNGFAGLIKRLREL
 HLEHNQLTKINFHFRLSSLHTLFLQWNKISNLTGMDWTWSTLEKLDLTGNEIKAIDLTVFETMPNLK
 ILLMDNKNLNSLDSKILNSLKSLTTVGLSGNLWECSPRVCALASWLGSFQGRWEHSILCHSPDHTQGEDI
 LDAHVGFLCWNLSTTVTAMATTYRDPTTEYTKISSSSYHVGDKIPTTAGIATVTEEHFPEPDNAIFTQ
 RVITGTMALLFSFFFIFIVFISRKCCPPTLRRIRQCSMIQNHRLRSQTRLHMSNMSDQGPYNEYEPH
 EGPFIINGYGQCKCQQLPYKECEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_a10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN:

NM_178005

ORF Size:

1545 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.

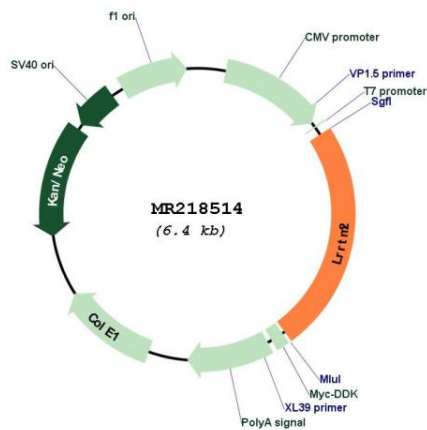
RefSeq:

[NM_178005.4](#), [NP_821072.1](#)

RefSeq Size: 5673 bp
 RefSeq ORF: 1548 bp
 Locus ID: 107065
 UniProt ID: [Q8BGA3](#)
 Cytogenetics: 18 B1
 MW: 59.3 kDa

Gene Summary: Involved in the development and maintenance of excitatory synapse in the vertebrate nervous system. Regulates surface expression of AMPA receptors and instructs the development of functional glutamate release sites. Acts as a ligand for the presynaptic receptors NRXN1-A and NRXN1-B (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218514