

Product datasheet for **RR215346**

Lrrtm2 (NM_001109469) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrtm2 (NM_001109469) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrtm2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR215346 representing NM_001109469
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTTACATTCAAGTGGCCATTAGGGGCCCTATGCTGGCAGCAATATATGCAATGAGTGTGGTAT
 TAAAAATGCTGCCTGCCCTGGGTATGGCGTGTCCACCTAAATGCCGCTGTGAGAAGCTGCTATTCTACTG
 CGACTCTCAGGGCTTCCACTCAGTGCCAAACGCCACAGACAAGGGTTCTCTGGGCCTGTCCCTGAGGCAC
 AATCACATCACAGCGCTTAAAGAGATCAATTTGCCAGCTTCACTCAACTCACCTGGCTCCACTTAGATC
 ACAATCAAATTTCAACAGTAAAAGAAGATGCTTTCCAAGGACTATATAAACTAAAGGAGTTAATCTTAAG
 TTCCAACAAAATATTTTACTTGCCAAACACAACCTTTACCCAAGTATTAATCTGCAGAATTTGGACCTC
 TCTTTAATCAGCTGTCATCTCTGCACCCTGAGCTTCTATGGCCTTCGGAAGCTGCAGACCTGCATC
 TGCCTTCAAACCTCCCTGCGGACTATCCAGTTCGCTGTTCTGGGACTGTCGTAGTCTAGAGTTTCTGGA
 TTTGAGCACAACCGTTTGCAGTGGCTCGCAATGGATTTGCAGGATTAATCAAAGTGGGAGCTT
 CATCTAGAGCACAATCAGCTGACAAAGATTAATTTTGGCTATTTCTTCGGCTAAGCAGTCTGCACACAC
 TCTTCTACAATGGAACAAAATCAGCAACTTGACGTGTGGGATGGAGTGGACCTGGAGCACTTTAGAAAA
 GCTAGACCTAACTGGAATGAAATCAAAGCCATCGACTTGACAGTGTTCGAGACCATGCCTAATCTTAAA
 ATACTTCTCATGGATAACAACAAGTTAAATAGTCTTGATTCCAAAATCTTAAGCTCCCTGAGATCCCTCA
 CAACCGTTGGCCTCTCTGGCAATCTGTGGGAATGCAGCCCCAGAGTCTGTGCTCTTGCTCCTGGCTGGG
 CAGTTTCCAAGGTCGGTGGGAGCATTCCATCCTATGCCACAGCCCTGACCACACCAAGGAGAGGATATT
 CTAGATGCAGTCCACGGCTTTCACTCTGCTGGAATTTATCAACCACTGCTACTGCCATGGCTACAACCT
 ATAGAGATCCAACCACTGAATATACAAAATAAGCTCATCAAGTTACCATGTAGGAGACAAGAAATTC
 AACTACTGCAGGCATAGCAGTTACTACAGAGGAACACTTTCTGAACCAGACAATGCCATCTTTACTCAG
 CGAGTAATTACAGGAACATGGCTTTATTGTTTTCTTTCTTTTTATTATTTTTATAGTGTTCATTTCCA
 GGAAGTGTGCCCTCCCCTTTAAGAAGAATTAGGCAGTGTCAATGATTGAGAACCACAGGCAGCTCCG
 ATCCCAAACACGACTCCATATGTCAAACATGTCAGACCAAGGACCGTATAGTGAGTACGAGCCACCCAT
 GAAGGACCTTTCATCATTAATGTTATGGACAGTGAAGTGTGAGCAGCTACCATAAAGGAATGTG
 AAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215346 representing NM_001109469
 Red=Cloning site Green=Tags(s)

MGLHFKWPLGAPMLAAIYAMSVVLKMLPALGMACPPKCRCEKLLFYCDSQGFHSPVNPATDKGSLGLSLRH
 NHITALERDQFASFSQLTWLHLDHNQISTVKEDAFQGLYKLEKILSSNKIFYLPNTTFTQLINLQNLDL
 SFNQLSSLHPELFYGLRKLQTLHLRNSLRTIPVRLFWDRCRSLEFLDLSTNRLRSLARNGFAGLIKRL
 HLEHNQLTKINFHFRLSSLHTLFLQWNKISNLTCGMEWTSTLEKLDLTGNEIKAIDLTVFETMPNLK
 ILLMDNKNLNSLDSKILSSLRSLTTVGLSGNLWECSPRVICALASWLSGFQGRWEHSILCHSPDHTQGED
 LDAHVGFLCWNLSTTVTAMATTYRDPTEYTKISSSSYHVGDKEIPTTAGIAVTTTEHFPEPDNAIFTQ
 RVITGTMALLFSFFFIFIVFISRKCCPPTLRRIRQCSMIQNHRLRSQTRLHMSNMSDQGPYSEYEPH
 EGFPIIINGYQCKCQQLPYKECEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

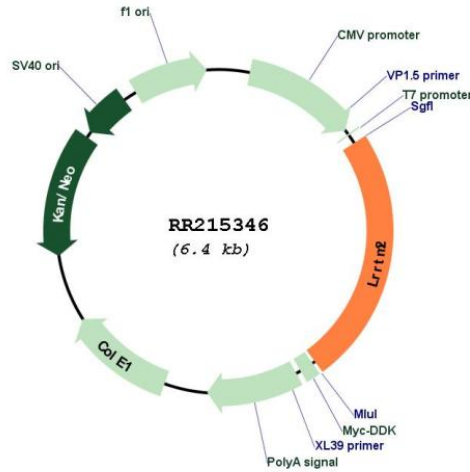
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001109469

ORF Size: 1545 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:	<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_001109469.1</u> , <u>NP_001102939.1</u>
RefSeq Size:	4715 bp
RefSeq ORF:	1548 bp
Locus ID:	685472
UniProt ID:	<u>D4A7P2</u>
Cytogenetics:	18p11
MW:	58.8 kDa
Gene Summary:	Involved in the development and maintenance of excitatory synapse in the 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. [UniProtKB/Swiss-Prot Function]