

Product datasheet for **RC222131**

LRRTM2 (NM_015564) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRTM2 (NM_015564) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRRTM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222131 representing NM_015564
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTTACATTCAAGTGGCCATTAGGGGCCCTATGCTGGCAGCAATATATGCAATGAGTATGGTTT
 TAAAAATGCTGCCTGCCCTGGGTATGGCGTGTCCACCCAAATGCCGCTGCGAGAAGCTGCTCTTCTACTG
 CGACTCTCAGGGCTTCCACTCAGTGCCAAACGCCACAGACAAGGGCTCTCTGGGCCTGTCCCTGAGGCAC
 AATCACATCACAGAGCTCGAAAGAGATCAATTTGCCAGCTTCACTCAACTTACTTGGCTCCACTTAGATC
 ACAATCAAATTTCAACAGTAAAAGAAGATGCTTTTCAAGGACTATATAAACTTAAGGAATTAATCTTAAG
 TTCCAACAAAATATTTTACTTGCCAAACACAACTTTTACCCAAGTAACTGCAAATTTGGACCTG
 TCTTTAATCAGCTGTCTCTGCACCCAGAGCTTCTATGGCCTTCGGAAGTGCAGACCTTGCAAT
 TACGTTCAAACCTCCCTGCGGACTATCCAGTACGCCTGTTCTGGGACTGTCGTAGTCTGGAGTTTCTGGA
 TTTGAGCACAAAATCGTTTGCAGTGGCTCGCAATGGATTTGCAGGATTAATTAAGTGAAGAGCTT
 CACCTAGAGCACAAACAGCTGACGAAGATTAATTTTGGCTATTTCTACGGCTAAGCAGTCTGCACACGC
 TCTTCTTACAATGGAACAAAATCAGCAACTTGACATGTGGGATGGAGTGGACCTGGGGCACTTTAGAAAA
 GCTAGACCTGACTGGAATGAAATCAAAGCCATCGACTTGACAGTGTGAAACGATGCCAATCTTAA
 ATACTCCTCATGGATAACAACAAGTTAAACAGCCTTGATTCCAAGATCTTAACTCCCTGAGATCCCTCA
 CAACCGTTGGTCTCTCTGGCAATCTGTGGGAATGCAGCGCCCAATATGTGCTCTGGCCTCTGGCTGGG
 CAGTTTCCAAGGTCGGTGGGAACACTCCATCCTATGCCACAGTCTGACCACACCAAGGAGAGGATATT
 CTAGATGCAGTCCATGGATTTCACTCTGCTGGAATTTGTCAACCACTGTCAGTGTATGGCTACAACCT
 ATAGAGATCCAACCACTGAATATACAAAAGAATAAGCTCATCAAGTTACCATGTGGGAGACAAAAGAAAT
 CCCAACTACTGCAGGCATAGCAGTTACTACCGAGGAACACTTTCTGAACCAAGACAATGCCATCTTCACT
 CAGCGGGTAATTACGGGAACAATGGCTTTATTGTTTTCTTTTCTTTTATTATTTTATAGTGTTCATCT
 CCAGGAAGTGTGCCCTCCCACTTTAAGAAGAATTAGGCAGTGTCAATGGTTCAGAACCACAGGCAGCT
 CCGATCCCAAACAGACTCCATATGTCAAACATGTGACCAAGGACCGTATAATGAATATGAACCCACC
 CATGAAGGACCCTTCATCATCATTAAATGGTTATGGACAGTGAAGTGTGACGAGTGCATACAAAAGAAAT
 GTGAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222131 representing NM_015564
 Red=Cloning site Green=Tags(s)

MGLHFKWPLGAPMLAAIYAMSMVLKMLPALGMACPPKCRCEKLLFYCDSQGFHSPNATDKGSLGLSLRH
 NHITELERDQFASFSQLTWLHLHDHNQISTVKEDAFQGLYKLEKILSSNKIFYLPNTTFTQLINLQNLDL
 SFNQLSSLHPELFYGLRKLQTLHLRSNLSLRTIPVRLFWDGRSLEFLDLSTNRLRSLARNGFAGLIKREL
 HLEHNQLTKINFHFRLSSLHTLFLQWNKISNLTCGMEWTWGTEKLDLTDGNEIKAIDLTVFETMPNLK
 ILLMDNKNLSLDSKILNSLRSLLTTVGLSGNLWECSARICALASWLSGFQGRWEHSILCHSPDHTQGED
 LDAHVGFLQCNWLSSTVTVMATTYRDPTEYTKRISSSSYHVGDKEIPTTAGIAVTEEHFPEPDNAIFT
 QRVITGTMALLFSFFFIIFIVFISRKCCPPTLRRIRQCSMVQNHRLRSQTRLHMSNMDSQGPYNEYEPT
 HEGPFIINGYGQCKCQQLPYKECEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6105_f02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_015564

ORF Size: 1548 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_015564.3](#)

RefSeq Size: 5572 bp

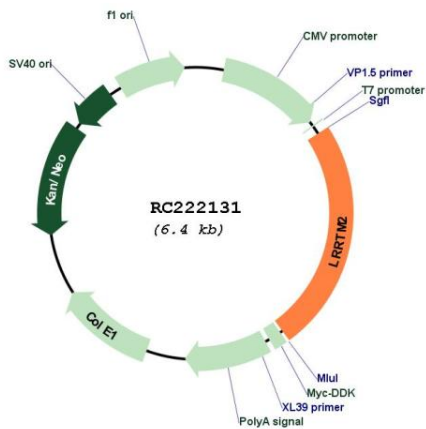
RefSeq ORF: 1551 bp

Locus ID: 26045

UniProt ID: [O43300](#)

Cytogenetics:	5q31.2
Domains:	LRR, LRR_TYP, LRR_BAC
Protein Families:	Transmembrane
MW:	58.9 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 RC222131