

Product datasheet for **SC114672**

LRRTM2 (NM_015564) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRTM2 (NM_015564) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRRTM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114672 sequence for NM_015564 edited (data generated by NextGen Sequencing)

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ATGGGCTTACATTTCAAGTGGCCATTAGGGGCCCTATGCTGGCAGCAATATATGCAATG
AGTATGGTTTTAAAAATGCTGCCTGCCCTGGGTATGGCGTGTCCACCCAAATGCCGCTGC
GAGAAGCTGCTCTTCTACTGCGACTCTCAGGGCTTCCACTCAGTGCCAAACGCCACAGAC
AAGGGCTCTCTGGGCCTGTCCCTGAGGCACAATCACATCACAGAGCTCGAAAGAGATCAA
TTTGCCAGCTTCAGTCACTTACTTGGCTCCACTTAGATCACAATCAAATTTCAACAGTA
AAAGAAGATGCTTTTCAAGGACTATATAAACTTAAAGGAATTAATCTTAAGTTCCAACAAA
ATATTTTACTTGCCAAACACAACCTTTTACCCAAGTAACTGCAAAAATTTGGACCTG
TCTTTTAAATCAGCTGTCTCTGCACCCAGAGCTCTTCTATGGCCTTCGGAAGCTGCAG
ACCTTGCATTTACGTTCCAACCTCCCTGCGGACTATCCCAGTACGCCTGTTCTGGGACTGT
CGTAGTCTGGAGTTTCTGGATTTGAGCACAATCGTTTGCGAAGTTTGGCTCGCAATGGA
TTTGCAGGATTAATTAAGTGAAGAGCTTACCTAGAGCACAACCAGCTGACGAAGATT
AATTTTGTCTATTTCTACGGCTAAGCAGTCTGCACACGCTCTTCTTACAATGGAACAAA
ATCAGCAACTTGACATGTGGGATGGAGTGGACCTGGGGCACTTTAGAAAAGCTAGACCTG
ACTGGAATGAAATCAAAGCCATCGACTTGACAGTGTGAAACGATGCCAATCTTAAA
ATACTCCTCATGGATAACAACAAGTTAAACAGCCTTGATTCCAAGATCTTAACTCCCTG
AGATCCCTCACAACCGTTGGTCTCTCTGGCAATCTGTGGGAATGCAGCGCCCGAATATGT
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AGTCTGACCACACCCAAGGAGAGGATATTCTAGATGCAGTCCATGGATTTACAGCTCTGC
TGGAATTTGTCAACCACTGTCACTGTCTGCTACAACCTATAGAGATCCAACCACTGAA
TATACAAAAAGAATAAGCTCATCAAGTTACCATGTGGGAGACAAAAGAAATCCCAACTACT
GCAGGCATAGCAGTTACTACCGAAGCAACTTTCTGAACCAAGCAATGCCATCTTCACT
CAGCGGGTAATTACGGGAACAATGGCTTTATTGTTTTCTTTCTTTTTATTATTTTTATA
GTGTTCTATCTCCAGGAAGTGTGCTCCCTCCCACTTAAAGAAGAATTAGGCAGTGTCAATG
GTTCAGAACACAGGCAGCTCCGATCCCAACACGACTCCATATGTCAAACATGTCAGAC
CAAGGACCGTATAATGAATATGAACCCACCCATGAAGGACCCCTTATCATCATTAAATGGT
TATGGACAGTGAAGTGTGAGCAGCTGCCATACAAGAATGTGAAGTATAA
    
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Clone variation with respect to NM_015564.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_015564 unedited
GTTACATTTGTATACGACTCATATAGGCGGCNCGGATTTCGGCACGAGGNAAGAAGTAA
ACGGCTGCGGAAGGAGACTGAAGCTTTGATTAACCAGCTGAGCAGTTAGAGGTGGAGAAA
TTTAATAACTTATATTCAAACTGATTTAGGGATCAGAGCAATCACAGAAAATGAAACCA
ATGCTTTCCAGAGGGATATCCTAAGGAAAAACAACCTCGTCTGGTGGATTCAATTTTAC
TTGGAAAGCCTGGGACACAGAAAACAGGAACTGGTCAAAGGCTCCTACATGTTAGAGCC
TTTTACAGACTCACTGCGTTGAGTCTAACAACCGGACTGAATGCAGCCTCCAATGTGCT
CAGAAGAATGGGCTTACATTTCAAGTGGCCATTAGGGGCCCTATGCTGGCAGCAATATA
TGCAATGAGTATGGTTTTAAAAATGCTGCCTGCCCTGGGTATGGCGTGTCCACCCAAATG
CCGCTGCGAGAAGCTGCTTCTACTGCGACTCTCAGGGCTTCCACTCAGTGCCAAACGC
CACAGACAAGGGCTCTCTGGCCTGTCCCTGAGGCACAATCACATCACAGAGCTCGAAAG
AGATCAATTTGCCAGCTTCACTCACTTACTTGGCTCCACTTAGATCACAATCAAATTTT
AACAGTAAAAGAAGATGCTNNTTCAAGGACTATATANACTTAAAGGAATTAATCTTAAGTTC
CAACAAAATATTTTACTTGCCAAACACAANCTTTACCCAAGTAACTGACANAATTT
GGACCTGTCTTTAATCAGCTGTCTCTGCACCCGAGCTCTTCTATGGCCTTTTCAAG
CTGCAGACCTGCATTTACGTTCCAACCTCCCTGCGGACTATCCCAGTACGCCTGTTCTGGG
ACTGTCGTAGTCTGGAGTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015564 unedited GGATGGTTTAATATCCCACCATTNCTTGCATCATACATGNAAATTCTACTTCCCACCCTG GCAAGAAATTGAAGATTTGAGTAAATACCAAATTATCATACAAGAGAAGTTACTAAGTC TCCTTTTAAGCAGCAAGATAGTTGTGGTACATGGGATGGAGAGCAGTGATCAAACAGGTA TTGATCTATATCTGTTTCTGCCAATAGCTTCTTCTAAATTGTTTTAGTAAAAA TAGTATATGGAGACCTTAGTGTAAGGTTACACACGATTGTATATAATTACATACATTT CTTATTTGAAGTAAGCATTTTAGACTTTCCAACAGGAGTGCAAATTAATGTGAGCATTG ATTCATTTAACACTTAAATATGGTTTCATTTAAAAAATTAATACTTCAACACTTCA AAAATAAGTCTCCACTTAGTTTGGAAAATTAAGCTTAATGTCCACCATTGGTAAAAATTA GATATGATTTAGCCTCTACTATGTAATAAGTTACTTATCTGATGTGATTTTTGATGA TGGGTAGATATTACTTCACATTCTTTGTATGGCAGCTGCTGACACTTGCCTGTCCAT AACCATTAATGATGATGAATGGTCTTCATGGGTGGGTTTCATATTCATTATACGGTCTT GGTCTGACATGTTTGACATATGGAGTCGTGTTGGGATCGGAGCTGCCTGTGGTTCTGAA CCATTGAGCACTGCCTAATCTTCTTAAGTGGGATGGCAGCACTTCTGGAGATGAACAC TCTAAAATATCAAAAAGAAAGAATACANTNAAGCCATTGTTCCCGTATTACCCGCTGA GTGAAGATGGCATTGTCTGGTTCAAGAAAGTGTTCCTCAGTAGTAAGTGCATGCCTGCA GTATTTGGGATTTCTTTGTCTCCACAATGGAACNNNGATGAGCTATTCTTCTGATATTCA GTGGGTGGATCTCTATAGTTGAAGCCTGAAACTGACAGAGTTGACAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_015564
Insert Size:	2660 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_015564.1</u> , <u>NP_056379.1</u>
RefSeq Size:	5572 bp
RefSeq ORF:	1551 bp
Locus ID:	26045
UniProt ID:	<u>O43300</u>
Cytogenetics:	5q31.2
Domains:	LRR, LRR_TYP, LRR_BAC

Protein Families: Transmembrane

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]