

## Product datasheet for **RG222131**

### LRRTM2 (NM\_015564) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LRRTM2 (NM_015564) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRTM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG222131 representing NM\_015564  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTTACATTCAAGTGGCCATTAGGGGCCCTATGCTGGCAGCAATATATGCAATGAGTATGGTTT  
 TAAAAATGCTGCCTGCCCTGGGTATGGCGTGTCCACCAAATGCCGCTGCGAGAAGCTGCTCTTCTACTG  
 CGACTCTCAGGGCTTCCACTCAGTGCCAAACGCCACAGACAAGGGCTCTCTGGGCCCTGTCCTTGAGGCAC  
 AATCACATCACAGAGCTCGAAAGAGATCAATTTGCCAGCTTCACTCAACTTACTTGGCTCCACTTAGATC  
 ACAATCAAATTTCAACAGTAAAAGAAGATGCTTTTCAAGGACTATATAAACTTAAGGAATTAATCTTAAG  
 TTCCAACAAAATATTTTACTTGCCAAACACAACTTTTACCAACTGATTAACCTGCAAAAATTTGGACCTG  
 TCTTTTAAATCAGCTGTCATCTCTGCACCCAGAGCTTCTTATGGCCTTCGGAAGCTGCAGACCTGCATT  
 TACGTTCAAACCTCCCTGCGGACTATCCAGTACGCCTGTTCTGGGACTGTCGTAGTCTGGAGTTTCTGGA  
 TTTGAGCACAAAATCGTTTGCAGTGGCTCGCAATGGATTTGCAGGATTAATTAACCTGAGAGAGCTT  
 CACCTAGAGCACAAACAGCTGACGAAGATTAATTTTGGCTATTTCTACGGCTAAGCAGTCTGCACACGC  
 TCTTCTTACAATGGAACAAAATCAGCAACTTGACATGTGGGATGGAGTGGACCTGGGGCACTTTAGAAAA  
 GCTAGACCTGACTGGAATGAAATCAAAGCCATCGACTTGACAGTGTGAAACGATGCCAATCTTAA  
 ATACTACTCATGGATAACAACAAGTTAAACAGCCTTGATTCCAAGATCTTAACTCCCTGAGATCCCTCA  
 CAACCGTTGGTCTCTCTGGCAATCTGTGGGAATGCAGCGCCCGAATATGTGCTCTGGCCTCCTGGCTGGG  
 CAGTTTCCAAGGTCGGTGGGAACACTCCATCCTATGCCACAGTCTGACCACACCAAGGAGAGGATATT  
 CTAGATGCAGTCCATGGATTTCACTCTGCTGGAATTTGTCAACCACTGTCAGTGTATGGCTACAACCT  
 ATAGAGATCCAACCACTGAATATACAAAAGAATAAGCTCATCAAGTTACCATGTGGGAGACAAAAGAAAT  
 CCCAACTACTGCAGGCATAGCAGTTACTACCGAGGAACACTTTCTGAACCAAGACAATGCCATCTTCACT  
 CAGCGGGTAATTACGGGAACAATGGCTTTATTGTTTTCTTTTCTTTTATTATTTTATAGTGTTCATCT  
 CCAGGAAGTGTGCCCTCCCACTTTAAGAAGAATTAGGCAGTGTCAATGGTTCAGAACCACAGGCAGCT  
 CCGATCCCAAACAGACTCCATATGTCAAACATGTGACCAAGGACCGTATAATGAATATGAACCCACC  
 CATGAAGGACCTTCATCATCATTAAATGGTTATGGACAGTGAAGTGTGACGAGTGCATACAAAAGAAAT  
 GTGAAGTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG222131 representing NM\_015564  
 Red=Cloning site Green=Tags(s)

MGLHFKWPLGAPMLAAIYAMSMVLKMLPALGMACPPKCRCEKLLFYCDSQGFHSPNATDKGSLGLSLRH  
 NHITELERDQFASFSQLTWLHLDHNQISTVKEDAFQGLYKLKELILSSNKIFYLPNTTFTQLINLQNLDL  
 SFNQLSSLHPELFYGLRKLQTLHLRSNSLRTIPVRLFWDRCRSLFLDLSTNRLRSLARNGFAGLIKREL  
 HLEHNQLTKINFHFRLRSSLHTLFLQWNKISNLTCGMEWTWGTLEKLDLTGNEIKAIIDLTVFETMPNLK  
 ILLMDNNKLNLSLDSKILNSLRSLTTVGLSGNLWECSARICALASWLGSGRWEHSILCHSPDHTQGEDIL  
 LDAHVGFLCWNLSTTVYVMATTYRDPTEYTKRISSSSYHVGDKEIPTTAGIAVTEEHFPEPDNAIFT  
 QRVITGTMALLFSFFFIIFIVFISRKCCPPTLRRIQCSMVQNHRLRSQTRLHMSNMDSQGPYNEYEPT  
 HEGPFIIINGYQCKCQQLPYKECEV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**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\\_015564.1](#), [NP\\_056379.1](#)

**RefSeq Size:** 5572 bp

**RefSeq ORF:** 1551 bp

**Locus ID:** 26045

**UniProt ID:** [O43300](#)

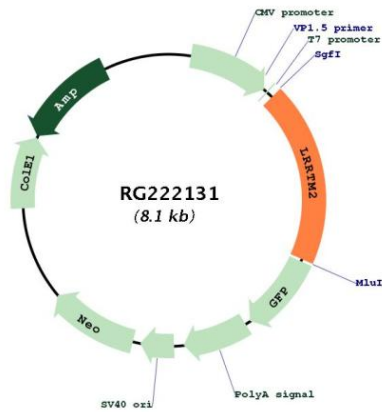
**Cytogenetics:** 5q31.2

**Domains:** LRR, LRR\_TYP, LRR\_BAC

**Protein Families:** Transmembrane

**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 RG222131