

Product datasheet for **RG207949**

LRRTM1 (NM_178839) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRTM1 (NM_178839) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRTM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207949 representing NM_178839
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTTCTGTGCTCGGTCTGTCTATACTGGCTGTGAGGAGCCCTCGGGGTGGTCTTGTGTC
 TGCTGGGGCCTGCTTTAGATGCTGCCGCCGCCCCAGCGGGTGCCCGCAGCTGTGCCGTGCGAGGG
 GCGGCTGTACTGCGAGGCGCTCAACCTCACGAGGCGCCCAACCTGTCCGGCTGCTGGGCTTG
 TCCCTGCGCTACAACAGCCTCTCGGAGTGCAGCGCCGGCCAGTTCACGGGGTAAATGCAGCTCACGTGGC
 TCTATCTGGATACAATCACATCTGCTCCGTGCAGGGGACGCCTTTAGAACTGCGCCGAGTTAAGGA
 ACTCACGTGAGTTCCAACCAGATCACCAACTGCCAACACCACCTCCGGCCCATGCCAACCTGCGC
 AGCGTGGACCTCTCGTACAACAAGCTGCAGGCGCTCGCGCCGACCTCTCCACGGGCTCGGAAGCTCA
 CCACGCTGCATATGCGGGCCAACGCCATCCAGTTTGTGCCGTGCGCATCTCCAGGACTGCCGACGCT
 CAAGTTTCTCGACATCGGATAACAATCAGCTCAAGAGTCTGGCGCGCAACTTTTCGCCGGCTTGTAAAG
 CTACCGAGCTGCACCTCGAGCACAACGACTTGGTCAAGGTGAACCTCGCCCACTCCCGCGCCTCATCT
 CCCTGCACTCGCTCTGCCTGCGGAGGAACAAGGTGGCCATTGTGGTCAGCTCGCTGGACTGGGTTTGGAA
 CCTGGAGAAAATGGACTTGTGCGGCAACGAGATCGAGTACATGGAGCCCCATGTGTTGAGACCGTGCCG
 CACCTGCAGTCCCTGCAGCTGGACTCCAACCGCCTCACCTACATCGAGCCCCGGATCCTCAACTCTTGG
 AGTCCCTGACAAGCATCACCTGGCCGGGAACCTGTGGGATTGCGGGCGCAACGTGTGTGCCCTAGCCTC
 GTGGCTCAGCAACTCCAGGGGCGCTACGATGGCAACTGCAGTGCAGCCAGCCGGAGTACGCACAGGGC
 GAGGACGTCCTGGACGCGGTGTACGCCTCCACCTGTGCGAGGATGGGGCCGAGCCACCAGCGGCCACC
 TGCTCTCGGCCGTCACCAACCGCAGTGTCTGGGGCCCCCTGCCAGCTCGGCCACCACGCTCGCGGACGG
 CGGGGAGGGGCAGCAGCAGCGGCACATTCGAGCCTGCCACCGTGGCTCTTCCAGGCGGCGAGCACCGCGAG
 AACGCCGTGCAGATCCACAAGGTGGTACGCGGCACCATGGCCCTCATCTTCTCCTCATCGTGGTCC
 TGGTGCTACTGTCTGGAAGTGTTCAGCCAGCCTCAGGCAGCTCAGACAGTGTCTTGTACAGCA
 GCGCAGGAAGCAAAGCAGAAACAGACCATGCATCAGATGGTGGCATGTCTGCCAGGAATACTACGTT
 GATTACAAACCGAACACATTGAGGGAGCCCTGGTGTATCAACGAGTATGGCTCGTGTACCTGCCACC
 AGCAGCCCGGAGGGAATGCGAGGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207949 representing NM_178839
 Red=Cloning site Green=Tags(s)

MDFLLGLCLYWLLRRPSGVVLCLLGACFQMLPAAPSGCPQLCRCEGRLLYCEALNLTEAPHNLSGLLGL
 SLRYNSLSELRAQFTGLMQLTWLYLDHNHICSVQDAFQKLRRVKELTLSSNQITQLPNTTFRPMPNLR
 SVDLSYNKLQALAPDLFHGLRKLTLHMRANAIQFVVRIFQDCRSLKFLDIGYNQLKSLARNSFAGLFK
 LTELHLEHNDLVKYNFAHFPRLLISLHSLCLRRNKVAIVVSSLDWVWNLEKMDLSGNEIIEYMEPHVFETVP
 HLQSLQLDSNRLTYIEPRILNSWKSLSITLAGNLWDCGRNVCALASWLSNFQGRYDGNLQCASPEYAQG
 EDVLDVAVYAFHLCEDGAEPTSGHLLSAVTNRSDLGPPASSATTLADGGEGQHDGTFEPATVALPGGEHAE
 NAVQIHKVVTGMALIFSFLIVVLLVYVSWKCFPASLRQLRQCFVTQRRKQKQKQTMHQMAAMSAQEYYV
 DYKPNHIEGALVIINEYGSCTCHQPARECEV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_178839

ORF Size: 1566 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_178839.3](#), [NP_849161.1](#)

RefSeq Size: 2217 bp

RefSeq ORF: 1569 bp

Locus ID: 347730

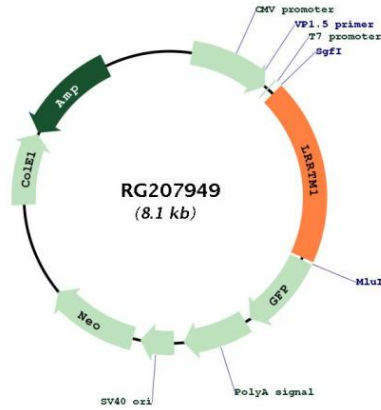
UniProt ID: [Q86UE6](#)

Cytogenetics: 2p12

Protein Families: Transmembrane

Gene Summary: Exhibits strong synaptogenic activity, restricted to excitatory presynaptic differentiation, acting at both pre- and postsynaptic level.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207949