

Product datasheet for **RG239009**

LRRTM4 (NM_001282924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRTM4 (NM_001282924) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRTM4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239009 representing NM_001282924.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGGTTTCCATTTAATTACGCAGCTGAAAGGCATGAGTGTGGTCTGCTACTTCTACACTGCTG
CTTGTATGCTCACGGGTGCTCAGAGAGCTTGCCCAAAGAAGTGCAGATGTGATGGCAAATTTGTGTAC
TGTGAGTCTCATGCTTTTCGCAGATATCCCTGAGAACATTTCTGGAGGGTACAAGCTTATCATTAAAG
TTCAACAGCATTAGAAGCTCAAATCCAATCAGTTTGGCCGCCCTTAACCAGCTTATATGGCTTTATCTT
GACCATAATTACATTAGCTCAGTGGATGAAGATGCATTTCAAGGGATCCGTAGACTGAAAGAATTAATT
CTAAGCTCCAACAAAATTAATCTGACACAATAAAACATTTACCCAGTTCCCAATCTCCGCAATCTG
GACCTCTCTACAATAAGCTTCAGACATTGCAATCTGAACAATTTAAAGGCCTTCGGAAACTCATCATT
TTGCACCTGAGATCTAACTCACTAAAGACTGTGCCATAAGAGTTTTTCAAGACTGTGCGAATCTTGAT
TTTTTGGATTTGGTTACAATCGTCTTCGAAGCTTGCCCGAAATGCATTTGCTGGCCTCTTGAAGTTA
AAGGAGCTCCACCTGGAGCACAACCAAGTTTTCCAAGATCAACTTGTCTATTTCCACGCTCTTCAAC
CTCCGCTCAATTTACTTACAATGGAACAGGATTCGCTCCATTAGCCAAGTTTGACATGGACTTGGAGT
TCCTTACACAACCTGGATTTATCAGGGAATGACATCCAAGGAATTGAGCCGGGCACATTTAAATGCCTC
CCCAATTTACAAAATTTGAATTTGGATTCCAACAAGCTCACCAATATCTCACAGGAAACTGTCAATGCG
TGGATATCATTAAATCCATCACATTGTCTGGAATATGTGGAAATGCAGTCGGAGCATTGTCTTTA
TTTTATTGGCTTAAGAATTTCAAAGGAAATAAGGAAAGCACCATGATATGTGCGGGACCTAAGCACATC
CAGGGTGAAAAGGTTAGTGATGCAGTGGAAACATATAATCTGTTCTGAAGTCCAGGTGGTCAACACA
GAAAGATCACACCTGGTCCCAAACTCCCAGAAACCTCTGATTATCCCTAGACCTACCATCTTCAAA
CCTGACGTCACCAATCCACCTTTGAAACACCAAGCCCTTCCCAGGGTTTCAGATTCCTGGCCGAGAG
CAAGAGTATGAGCATGTTTCATTTACAAAAATTATTGCCGGAGTGTGGCTCTCTTCTCTCAGTGGCC
ATGATCTCTTGGTGATCTATGTGTCTTGGAAACGCTACCCAGCCAGCATGAAACAACCTCCAGCAACAC
TCTCTTATGAAGAGGCGGCGGAAAAAGGCCAGAGAGTCTGAAAGACAAATGAATCCCCTTTACAGGAG
TATTATGTGGACTACAAGCTACAACTCTGAGACCATGGATATATCGGTTAATGGATCTGGGCCCTGC
ACATATACCATCTCTGGCTCCAGGGAATGTGAGATGCCACACCACATGAAGCCCTTGCCATATTACAGC
TATGACCAGCCTGTGATCGGGTACTGCCAGGCCACCAGCCACTCCATGTACCAAGGGCTATGAGACA
GTGTCTCCAGAGCAGGACGAAAGCCCGCCTGGAGCTGGGCCGAGACCACAGCTTCATCGCCACCATC
GCCAGGTCCGACGACCCGCCATCTACCTAGAGAGAATTGCAAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG239009
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MGFHLITQLKGMSSVLLVLLPTLLLVM TGAQRACPKNCRCDGKIVYCESHAFADIPENISGGSQGLSLR
FNSIQKLKSNQFAGLNQLIWL YLDHNYISSVDEDAFQGIIRRLKELILSSNKITYLHNKTFHPVPLRNL
DLSYNKLQTLQSEQFKLRKLIILHLRSNSLKTVPPIRVFQDCRNLDLFDLGYNRLRSLSRNAFAGLLKL
KELHLEHNQF SKINFAHFPRLFNLRSIYLQWNRIRISQGLTWTWSSLHNLDSLGNDIQGIPEGTFKCL
PNLQKLNLDNKL TNISQETVNAWISLISITL SGNMWECSRSICPLFYWLKNFKGNKESTMICAGPKHI
QGEKVSDAVETYNICSEVQVNTERSHLVPQTPQPLIIPRPTIFKPDVTQSTFETPSPSPGFQIPGAE
QEYEHVSFHKIIAGSVALFLSVAMILLVIYVSWKRYPASMQLQQHSLMKRRRKKARESERQMNSPLQE
YYVDYKPTNSEMDISVNGSGPCTYTI SGRCEMPPHMKPLPYYSYDQPVIGYCAHQPLHVTKGYET
VSPEQDESPGLELGRDHSFIATIARSAAPAIYLERIAN
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

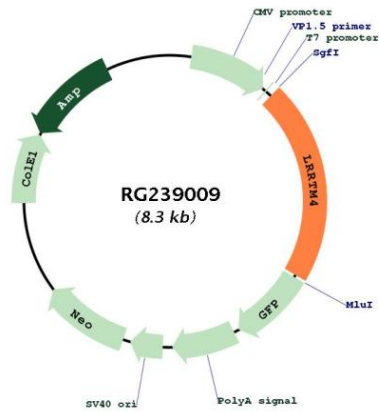
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


- ACCN:** NM_001282924
- ORF Size:** 1770 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).
- RefSeq:** [NM_001282924.2](#)
- RefSeq Size:** 3097 bp
- RefSeq ORF:** 1773 bp
- Locus ID:** 80059
- UniProt ID:** [Q86VH4](#)
- Cytogenetics:** 2p12
- Protein Families:** Transmembrane
- MW:** 67.2 kDa
- Gene Summary:** May play a role in the development and maintenance of the vertebrate nervous system. Exhibits strong synaptogenic activity, restricted to excitatory presynaptic differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG239009