

Product datasheet for **MG209215**

Lrrtm4 (BC037216) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrtm4 (BC037216) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lrrtm4
Synonyms:	7530419J18Rik; A230052N11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209215 representing BC037216
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGGTTTCCGTCTAATCACGCAGCTGAAAGGCATGAGTGTGTTTCTGGTGCTATTTCCACCCTGC
 TGCTGGTTATGCTGACGGGGCTCAGAGAGCTTGCCCAAAGAAGTGCAGATGCGATGGCAAGATTGTATA
 CTGTGAGTCTCACGCCTTCGACAGACATCCCTGAGAACATTTCTGGAGGGTCAAGGTTTATCCTTAAGG
 TTCAACAGCATTAGAACTCAAATCCAATCAGTTTCCGGCCTTAACCAGCTTATATGGCTTTATCTTG
 ACCATAATTACATTAGCTCAGTGGACGAAGATGCCTTTCAAGGGATCCGACAGCTGAAAGAATTAATTCT
 AAGCTCCAACAAAATTACCTATCTGCACAATAAAACATTTACCCAGTCCCAACCTCCGCAACCTGGAT
 CTCTCTACAACAACTCAGACCTTACAGTCTGAGCAGTTTAAAGGCCTCCGAAACTCATTTTTGC
 ACTTGGCATCTAATTCTCTCAAGACCGTCCCATACGGGTTTTTCAAGACTGCCGGAACCTTGACTTTCT
 GGATTTGGGTTAATCGGCTCCGAAGCTTATCCCGAAACGCGTTTGGCCGTCTTCTGAAGTTAAAAGAG
 CTCCACCTGGAGCATAATCAGTTTTCAAAGATCAACTTTGCTCATTTTCTCGTCTTCAACCTGCGAT
 CCATCTACCTGCAATGGAACAGGATCCGCTCTGTCAAGGCCTAACATGGACCTGGAGTTCTTGTCA
 CACCTTGGATTTATCAGGGAATGACATCCAAGCAATCGAGCCTGGCACATTTAAATGCCTCCCAATTTG
 CAAAAATTGAATTTGGATTCCAACAAGCTACCAATGTCTCCAGGAGACTGTCAATGCATGGATATCCT
 TAATATCCATCACCTGTCTGAAAACATGTGGGAATGTAGTGGAGCATCTGTCTCTATTCTACTGGCT
 GAAGAAATTTCAAAGGGAATAAGAAAGTACCATGATATGTGCAGGGCCTAAGCACATACAGGGTGAAG
 GTTAGCGATGCCGTGGAGACTTACAACATCTGCTCTGATGTCCAGGTGGTCAACACAGAACGATCACATC
 TGGCGCCTCAAACCTCCCAAGACCCCGTTTCAATCCCAACCTACCATTTCAAACCGGATGCAGTCCC
 AGCCACCTAGAGGCAGTGGCCATCCCGGGCTTTCAAATTCAGGTACGGATCATGAGTACGAGCAC
 GTGTCGTTTTCAAAAATCATCGCAGGGAGCGTGGCTCTGTTCTTCCGTGGCCATGATTCTCTGGTGA
 TCTATGTGCTTGGAAACGGTACCCAGCCAGCATGAAACAACCTCAACAGCACTCACTTATGAAGAGGAG
 ACGGAAAAGGCGAGGGAGTCCGAGAGACAGATGAATCCCTTTACAGGAATACTACGTGGACTACAAA
 CCGACGAACTCTGAGACCATGGATATATCGGTTAATGGATCTGGTCCCTGCACATATACCATCTCTGGCT
 CCAGGGAGTGTGAGATACCCACCATGTGAAGCCCTGCCGATTACAGCTATGACCAACCAGTGATTGG
 GTACTGCCAGGCCACCAGCCTCTCCACATCAACAAGGCTTATGAAGCTGTGTCTATAGAACAGGATGAC
 AGCCCCAGTTTGGAGCTTGGGAGAGACCACAGTTCATTGCCACCATAGCCAGGTGGCTGCACCTGCCA
 TTTATCTGGAGAGAATAACAAAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209215 representing BC037216
 Red=Cloning site Green=Tags(s)

MPGFRLLITQLKGMVFLVLFPTLLLVMLTGAQRACPKNCRCDGKIVYCESHAFADIPENISGGSQGLSLR
 FNSIQKLSNQFAGLNQLIWLVDHNYISSVDEDAFQGIIRRLKELILSSNKITYLHNKTFHPVPLNRNLD
 LSYNKLQTLQSEQFKGLRKLIIHLRSNSLKTVPVIRVFQDCRNLDLFDLGYNRLRSLSRNAFAGLLKKE
 LHLEHNQFSKINFHFPRLLFNLRSIYLQWNRIRSVSQGLTWTWSSLHTLDL SGNDIQAIEPGTFKCLPNL
 QKLNLDNSNKL TNVSQETVNAWISLISITL SGNMWECSRSICPLFYWLKNFKGNKESTMICAGPKHIQGEK
 VSDAVETYNICSDVQVNTERSHLAPQTPQKPPFIPKPTIFKPDVAVPATLEAVSPSPGFQIPGTDHEYEH
 VSFHKIIAGSVALFLSVAMILLVIYVSWKRYPASMKQLQQHSLMKRRRKKARESERQMNSPLQEYYVDYK
 PTNSETMDISVNGSGPCTYTISGSRECEIPHHVKPLPYYSYDQPVIGYCAHQPLHINKAYEAVSIEQDD
 SPSLELGRDHSFIATIARSAAPAIYLERITN

SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: BC037216

ORF Size: 1773 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: [BC037216.1](#)
RefSeq Size: 2976 bp

RefSeq ORF: 1775 bp

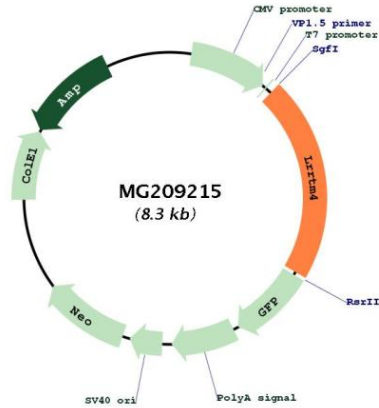
Locus ID: 243499

Cytogenetics: 6 C3

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 MG209215