

Product datasheet for **MR209215**

Lrrtm4 (BC037216) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrtm4 (BC037216) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrtm4
Synonyms:	7530419J18Rik; A230052N11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209215 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
 TAATATCCATCACCTGTCTGAAAACATGTGGGAATGTAGTCCGAGCATCTGTCTCTATTCTACTGGCT
 GAAGAAATTTCAAAGGGAATAAGAAAGTACCATGATATGTGCAGGGCCTAAGCACATACAGGGTGAAG
 GTTAGCGATCCGTGGAGACTTACAACATCTGCTCTGATGTCCAGGTGGTCAACACAGAACGATCACATC
 TGGCGCCTCAAACCTCCCAAGACCCCGTTTATCCCAACCTACCATTTCAAACCGGATGCAGTCCC
 AGCCACCTAGAGGCAGTGAAGCCATCCCGGGCTTTCAAATTCAGGTACGGATCATGAGTACGAGCAC
 GTGTCGTTTTACAAAATCATCGCAGGGAGCGTGGCTCTGTTCTCTCCGTGGCCATGATTCTCTGGTGA
 TCTATGTGCTTTGAAAACGGTACCCAGCCAGCATGAAACAACCTCAACAGCACTCACTTATGAAGAGGAG
 ACGGAAAAGGCGAGGGAGTCCGAGAGACAGATGAATCCCTTTACAGGAATACTACGTGGACTACAAA
 CCGACGAACTCTGAGACCATGGATATATCGGTTAATGGATCTGGTCCCTGCACATATACCATCTCTGGCT
 CCAGGGAGTGTGAGATACCCACCATGTGAAGCCCTGCCGATTACAGCTATGACCAACCAGTGATTGG
 GTACTGCCAGGCCACCAGCCTCTCCACATCAACAAGGCTTATGAAGCTGTGTCTATAGAACAGGATGAC
 AGCCCCAGTTTGGAGCTTGGGAGAGACCACAGTTCATTGCCACCATAGCCAGGTCCGCTGCACCTGCCA
 TTTATCTGGAGAGAATAACAAAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209215 representing BC037216
 Red=Cloning site Green=Tags(s)

MPGFRLITQLKGMVFLVLFPTLLLVLMTGAQRACPKNCRCDGKIVYCESHAFADIPENISGGSQGLSLR
 FNSIQKLKSNQFAGLNQLIWL YLDHNYISSVDEDAFQGIIRRLKELILSSNKITYLHNKTFHPVPLNRNLD
 LSYNKLQTLQSEQFKGLRKLIIHLRSNSLKTVP IRVFQDCRNLDLFDLGYNRLRSLSRNAFAGLLKLE
 LHLEHNQFSKINFAHFPRLFNLRSIYLQWNRIRSVSQGLTWTWSSLHTLDL SGNDIQAIEPGTFKCLPNL
 QKLNLDNKL TNVSQETVNAWISLISITL SGNMWECSRSICPLFYWLKNFKGNKESTMICAGPKHIQGEK
 VSDAVETYNICSDVQVVNTERSHPQTQKPPFIPKPTIFKPDVAVPATLEAVSPSPGFQIPGTDHEYEH
 VSFHKIIAGSVALFLSVAMILLVIYVSWKRYPASMKQLQOHSMLMRRRKKARESERQMNSPLQEYYVDYK
 PTNSETMDISVNGSGPCTYTI SGSRECEIPHHVKPLPYYSYDQVPVIGYQAHQPLHINKAYEAVSIEQDD
 SPSLELGRDHSFIATIARSAAPAIYLERITN

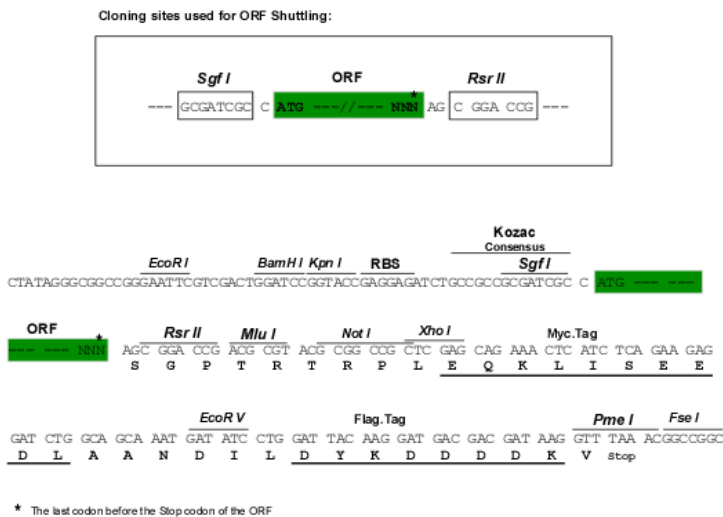
SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9065_e04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC037216.1](#)

RefSeq Size: 2976 bp

RefSeq ORF: 1775 bp

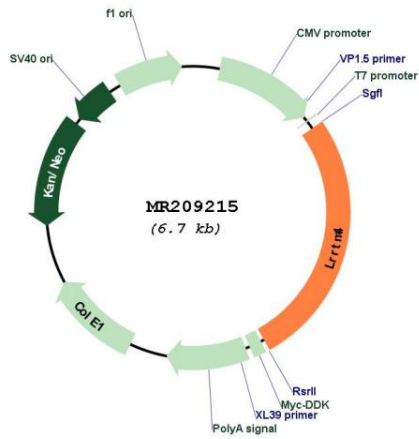
Locus ID: 243499

Cytogenetics: 6 C3

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 MR209215