

Product datasheet for **MG219254**

Lrrc4 (NM_138682) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrc4 (NM_138682) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lrrc4
Synonyms:	MBAG1; Nag14; NGL-2; NGL2; NLG-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219254 representing NM_138682
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTCTTGTGGCAGGTAAGTGTGCACCACACCTGGAATGCCGTCTGCTTCCCGTCGTCTACCTCA
 CGGCGCAAGTGTGGATTCTGTGTGCAGCCATCGCTGCTGCCGCTTCAGCCGGGCCCAAACTGCCCTC
 CGTCTGTTCTCAGTAACCAAGTTCAGCAAGGTGGTGTGCACCCGCCGGGACTCTCTGAGGTCCACAG
 GGTATTCCTTCCAACACCCGGTATCTCAACCTCATGGAACAACATCCAGATGATTAGGCCGACACCT
 TCAGGCACCTCCATCACCTGGAGGTCTGCAGCTGGGCAGGAACCTCCATCAGGCAGATAGAGGTGGGGC
 CTTCAATGGCCTCGCCAGTCTCAACACTCTGGAAGTGTTCGACAAGTGGTGACAGTATCCCCAGTGGG
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 ATGCCTTCAACCGGTGCCCTCCCTCATGCGTCTGGACTTGGGGAACTCAAGAAGCTGGAGTATATCTC
 TGAGGGGGCTTTTGGGGCTGTCAACCTCAAGTACCTGAAGTGGGCATGTGCAACATTAAGGATATG
 CCCAATCTTACACCCCTGGTGGGCTCGAGGAGCTTGAGATGTCAGGGAACCACTTTCTGAGATCAGGC
 CTGGGTCTTCCATGGCCTAAGCTCCCTCAAAAACTGTGGGTGATGAAGTACAGGTGACGCTGATTGA
 GCGGAATGCTTTTGACGGACTGGCTTCCCTCGTGGAACTCAACTAGCCACAATAACCTCTCATCTTTG
 CCCCATGACCTCTTACACCCCTGAGATACCTGGTGGAGTTGCACCTACACCACAATCCTTGAAGTGTG
 ATTGTGATATTCTGTGGCTGGCTTGGTGGCTTCGGGAGTATATCCCAACCAATCCACCTGCTGTGGCCG
 CTGTGATGCTCCCATGCACATGCGAGGCCGCTACCTGGTAGAGGTGGACCAGGCTGCCTTCAGTGCTCT
 GGGCTTTTCATCATGGATGCACCCGGGACCTCAATATCTCTGAGGATCGGATGGCAGAACTGAAGTGTG
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 CATAACACGGAAGTACAAGCCTGTTCCACACATCCACTGGTTACCAGCCGGCATATACCACCTTACC
 ACGGTGCTCATTAGACCACCCGTGTGCCAAGCAGGTGCCAGTACCCTCCACAGATACCACTGACAAGA
 TGCAGACCAGCTGGATGAAGTCATGAAGACCACCAAGATCATCATTGGTGTCTTGTGGCAGTGACTCT
 CCTAGTGCTGCCATGTTGATTGCTTCTATAAATTCGCAAGCGGCACCAGCAGCGGAGTACAGTCACA
 GCTGCCAGGACAGTAGAGATTATCCAGGTGGATGAAGACATCCAGCAGCAGCACCTGCAGCAGCAACAG
 CAGCTCCGTCGGGTGTATCAGGTGAGGGGGCAGTAGTGTGTCCACAATACATGACCATATTAACTACA
 CACCTACAAACCAGCAGATGGGGCCCACTGGACAGAAAACAGCCTGGGGAAGTCTCTGCACCCACAGTC
 ACCACTATCTCTGAACCTTATATAATTCAGACCCATACCAAGGACAAGGTACAGGAACTCAAATA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

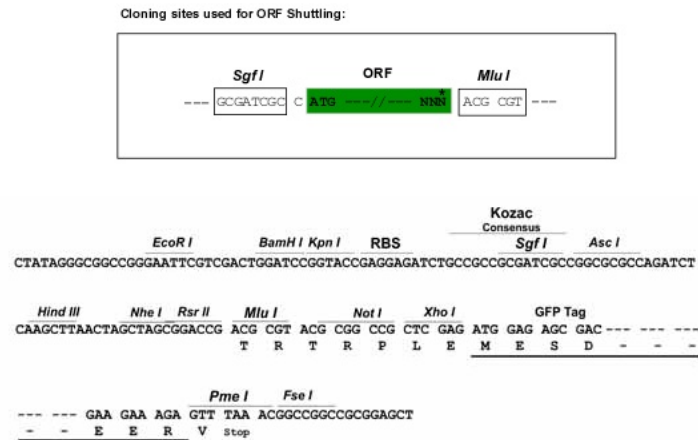
>MG219254 representing NM_138682
 Red=Cloning site Green=Tags(s)

MKLLWQVTVHHTWNAVLLPVVYLTAQVWILCAAIAAASAGPQNCPSVCSCSNQFSKVVCTRRGLSEVPQ
 GIPSNTRYLNLNENNIQMIQADTFRHLHHLEVLQLGRNSIRQIEVGAFNGLASLNTLEFDNWLTVIPSG
 AFEYLSKLRELWLRNNPIESIPSYAFNRVPSLMRLDLGELKKLEYISEGAFGLFNLKYLNLGMCNIKDM
 PNLTPLVGLEELEMNGHFEIRPGSFHGLSSLKKLWVMNSQVSLIERNAFDGLASLVELNLAHNNLSSL
 PHDLFTPLRYLVELHLHHPWNCDCDILWLAWWLREYIPTNSTCCGRCHAPMHRGRYLVEVDQAAFQCS
 APFIMDAPRDLNISEDMAELKCRTPPMSSVKWLLPNGTVLSHASRHPRI SVLNDGTLNFSRVLLIDTGV
 YTCMVTNVAGNSNASAYLVSSAELNTPNFSFFTTVTVETTEISPEDITRKYKPVPTTSTGYQPAYTTST
 TVLIQTTRVPKQVPVPSTDTTDMQTSLEVMKTKIIIGCFVAVTLAAAMLIVFYKLRKRHQQRSTVT
 AARTVEIIQVDEIPAAAPAAATAAPSGVSGEGAVVLSTIHDHINYNTYKPAHGAHWTESSLGNSLHPTV
 TTISEPYIIQTHTKDKVQETQI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138682

ORF Size: 1956 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: [NM_138682.2](#), [NP_619623.2](#)

RefSeq Size: 3636 bp

RefSeq ORF: 1959 bp

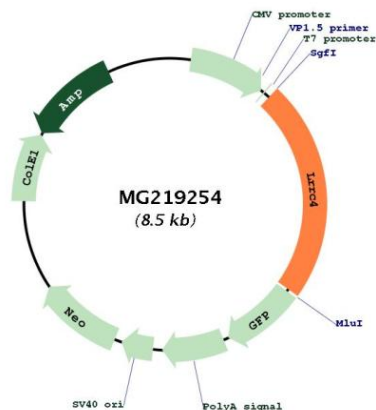
Locus ID: 192198

UniProt ID: [Q99PH1](#)

Cytogenetics: 6 A3.3

Gene Summary: Synaptic adhesion protein. Regulates the formation of excitatory synapses through the recruitment of pre-and-postsynaptic proteins. Organize the lamina/pathway-specific differentiation of dendrites. Plays an important role for auditory synaptic responses. Involved in the suppression of glioma.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219254