

Product datasheet for **MG218578**

Lrrtm4 (NM_178731) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrtm4 (NM_178731) 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:

>MG218578 representing NM_178731
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTTTCCGTCTAATCACGCAGCTGAAAGGCATGAGTGTGTTTCTGGTCTATTTCCACCCTGCTGC
 TGTTATGCTGACGGGGCTCAGAGAGCTTGCCAAAGAAGTGCAGATGGCAAGATTGTATACTG
 TGAGTCTCACGCCTTCGACAGACATCCCTGAGAATTTCTGGAGGGTCAACAAGTTTATCCTTAAGTTC
 AACAGCATTAGAACTCAAATCCAATCAGTTTCCCGCCTTAACCAGCTTATATGGCTTTATCTTGACC
 ATAATTACATTAGCTCAGTGGACGAAGATGCCTTTCAAGGGATCCGCAGACTGAAAGAATTAATTCTAAG
 CTCCAACAAAATTACCTATCTGCACAATAAACATTTACCCAGTCCCAACCTCCGCAACCTGGATCTC
 TCCTACAACAACTTCAGACCTACAGTCTGAGCAGTTTAAAGGCCTCCGAAACTCATTTTTGCACT
 TGCATCTAATTCTCAAGACCGTCCCATACGGGTTTTTCAAGACTGCCGGAACCTTGACTTTCTGGA
 TTTGGTTATAATCGGCTCCGAAGTTATCCCGAAACCGGTTTCCGGTCTTCTGAAGTTAAAAGAGCTC
 CACCTGGAGCATAATCAGTTTTCAAAGTCAACTTTGCTATTTTCTCGTCTCTCAACCTGCGATCCA
 TCTACCTGCAATGGAACAGGATCCGCTCTGTCAAGGCCTAACATGGACCTGGAGTTCTTGACAC
 CTTGGATTTATCAGGGAATGACATCCAAGCAATCGAGCCTGGCACATTTAAATGCCTCCCAATTTGCAA
 AAATTGAATTTGGATTCCAACAAGCTCACCAATGTCTCCAGGAGACTGTCAATGCATGGATATCCTTAA
 TATCCATCACCTGTCTGGAAACATGTGGGAATGTAGTCGGAGCATCTGTCTCTATTCTACTGGCTGAA
 GAATTTCAAAGGGAATAAAGAAAGTACCATGATATGTGCAGGGCCTAAGCACATACAGGGTGAGAAGTT
 AGCGATGCCGTGGAGACTTACAACATCTGCTGTGATGCCAGGTGGTCAACACAGAACGATCACATCTGG
 CGCTCAAACCTCCCAGAAGCCCCGTTTCAATCCCAACCTACCATCTTCAAACCGGATGCAGTCCCAGC
 CACCCTAGAGGCAGTGAAGCCATCCCCGGCTTTCAAATTCAGGTACGGATCATGAGTACGAGCACGTG
 TCGTTTCAAAAATCATCGCAGGGAGCGTGGCTCTGTTCTCTCCGTGGCCATGATTCTCTCTGGTATCT
 ATGTGTCTTGAAACGGTACCCAGCCAGCATGAAACAACCTCAACAGCACTCACTTATGAAGAGGAGACG
 GAAAAAGGCGAGGGAGTCGGAGAGACAGATGAATCCCTTTACAGGAATACTACGTGGACTACAAACCG
 ACGAACTCTGAGACCATGGATATATCGTTAATGGATCTGGTCCCTGCACATATACCATCTCTGGCTCCA
 GGGAGTGTGAGGTA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence:

>MG218578 representing NM_178731
 Red=Cloning site Green=Tags(s)

MGFRLITQLKGMVFLVLFPTLLLVMLTGAQRACPKNCRCDGKIVYCESHAFADIPENISGGSQGLSLRF
 NSIQKLSNQFAGLNQLIWL YLDHNYISSVDEDAFQGIIRRLKELILSSNKITYLHNKTFHPVPNLRNLDL
 SYNKLQTLQSEQFKLRKLIILHLRSNSLKTVPPIRVFQDCRNLDLFDLGYNRLRSLSRNAFAGLLKEL
 HLEHNQFSKINFHFPRFLNLSIYLQWNRIRSVSQGLTWTWSSLHTLDL SGNDIQAIIEPGTFKCLPNLQ
 KLNLDNKL TNVSQETVNAWISLISITLSGNMWECSRSICPLFYWLKNFKGNKESTMICAGPKHIQGEKV
 SDAVETYNICSDVQVVNTERSHLAPQTPQKPPFIPKPTIFKPDVAVPATLEAVSPSPGFQIPGTDHEYEHV
 SFHKIIAGSVALFLSVAMILLVIYVSWKRYPASMKQLQQHSLMKRRRKKARESERQMNSPLQEYYVDYKP
 TNSETMDISVNGSGPCTYITISGSRECEV

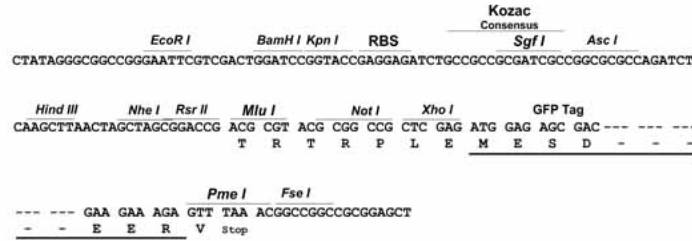
SGP**TRRRLE** - GFP Tag - V

Restriction Sites:

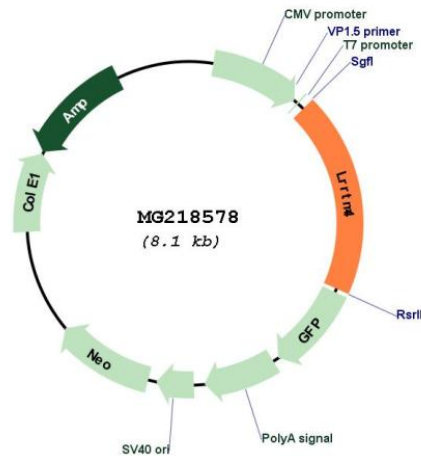
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN:	NM_178731
ORF Size:	1554 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:	<ol style="list-style-type: none">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_178731.5 , NP_848846.3
RefSeq Size:	3383 bp
RefSeq ORF:	1557 bp
Locus ID:	243499
UniProt ID:	Q80XG9
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]