

## Product datasheet for **MG219954**

### Lrrn4 (NM\_177303) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrn4 (NM_177303) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lrrn4
Synonyms:	B430119L13Rik; Nlrr4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG219954 representing NM\_177303  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGTGGACGCTGATGCTGCAGCTGCTGCAGCTCCTGTACAACCTGCTGATGGCGCAGAGCCAGAGCC  
 TGGAAAGGATCTCCAGGACCGGATCCCCCTCTCCGACTCACTCAGCAGGGAGACTGGGACAGCCCTCGA  
 CCGCCACCCTACCGACTCTCTGTGTAGGACTCCCCGCCGCGGGAGTCACTACTCTGAACCTGGCGAAC  
 CGCAGCCTGGAGAGCCTGCCTAGCTGCCTGCCGCGCAGCTGCGCAGCCTCGATGGCAGCCACAACCTGC  
 TGCAGCCCTTAGCGAGCCTGTGCTCGGCCGCTGCCGAGCTGCGTACTCACCTGCACCACAACCG  
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 CTGACCGAGCTGCCGCCCTGCCGGGGCCCTCGGGGAGCAGCCTGCGCTCGCTGGCGCTGGCCGGGAACC  
 CACTGCGAGCGCTGCTGCCACGGACCTTGCATGCTTCCAGCGCTGCGGCTTCTCAACCTCTCCTGCAG  
 CGAGCTGGGCCACATCGCCAGGAGGCATTGCGGGGGTGGACGGTGGGCCCTGGCGGCACTGGAGCTC  
 TTGGATCTGAGCGGCACGAGCCTAGAAAGAGTTGAGTCTGGGTGGATCAGAAACCTGCCAAAGCTCAAGT  
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 GCGGCAGCTGGATTGTGGAGACTCTCCAGCACTTACTTCTGTTACACAGAGATCTTTCAAGACACACC  
 AATCTACAAGCTTTCAGTTTCAGAAGTCAACTTGAAGTCTTGGTCTTGGAAATTCCTCCAGGTCT  
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 CAAAAGTCTTACACAGGGCAGCTGATACCATGTGTGAGCCTGCTTTAGGATCCAGGGGCCCTTCTCA  
 GGCCCTCTCCTCTCCACCTGTCTAATGTGTGAGGTCAGACCAAGCACCACCTCCTGCCTCAA  
 ACCCAGGCCGCTTCGATCATTAGTCTTGGCAGGATACAGGGCCCTTCCATTGAACAGAGCAGCGC  
 CTTGCTGCTCAGCCTGGAGGAAGCCAACAAAATATACCAAGTCCCTTCCCTCACCATGACTTCCCCC  
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 ATAGTCTTCCAGGGCTCTGCCTGGTGTGCCAGTTCTGGGGCAGAGCAGACTGCCACACATATCCTTGA  
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 CCCAGGAGCTTACCTCAGACCAAGCAGAGGACACAAGCCAGCCAGGGCTCTCCACACAGACCCTCCAC  
 AGGATGAGATCCAGTTTGTGTTAGATGATGACAGCGAGGAGGAGACTCGGGACCAGGTGGCGGC  
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 AGGCGCTTCAGATGCCGTTGCCCTGGTCTCAGTGGGAGGATACCACTCCAGACCCTCCACGCTGCAGG  
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 CAGACCCCTGTACAAGCTGACACCTGGCACCACCTACCATGTGTGTACTGGCAGCCAAAGGGCTG  
 GCCTGAGCCAGTACAGACCTCAGGCTGGAGGAGTCAATGCTACTTTTCAACCAAGCCAGCTCTGT  
 GGTCACTTCTGGGGACTGTGTACCGCCAGTGGCTGTACTGGTTAGCACCCCTGGTGTGTCTGTGTGT  
 CTCTGGAGGCAGCGCTGGAAGCCACACAGGCAGTTCTACGACACACACCTGGTGGCTTCAAAAACCCAG  
 CCAGAGCTGAGGAAGTAACTCAGTGGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219954 representing NM\_177303  
 Red=Cloning site Green=Tags(s)

```
MRWTMLQLLQLLQLLMAQSLSLERISQDRIFLRLTQQGDWDSLDRHPTDSL CVGLPAAGVTTLNLAN
RSLES LPSCLPRTL RSLD GSHNLLRALSEPV LGRLPELRVLT LHHNRISVLHWGRDTL AELRELDL SHNL
LTELPPCAGPSGSSLRSLALAGNPLRALLPRTFACFPALRLNLSCSELGHIAQEAFAGVDGGPLAALEL
LDL SGTSLERVE SGWIRNLPKLKSLFLRKMPRLK TLEGDIFKMTPNLRQLDCG DSPALTSVHTEIFQDTP
NLQV LQFQNCNLSSF GPWNSSQVLSVSLFGNPLICSELA WLLVDVNKTVLHRAADTMCEPALGSTG PFS
GPLSLSHLSNVCRSDQSTTLLPSNPGRFDHSV FAPRIQGPSIEQSTALSAQP GGSQQNITKVPSLTMTSP
TQGSW MYKDA SEETAQSTNSELVYSPSRALPGAASSGAEQTATHILEPNISSASTPLVSKYLEPLPTSPN
PRSLPQTKQRTQATPRALHTDPPQDEIPVLL LDDDDSEEEETRDQVAAPPQDV SCEYHPCKHLQTPCAELQ
RRFR CRCPGLSGEDTTPDPPTLQGVSEVTDTSVLVHWCAPNSVVLWYQIHVVAEGRSGNQSVVDIYATAR
QHPLYK LTPGTTYHVCVLAANRAGLSQSQTS GWRRCATFTTKPSSV VIFWGLCTASGLLLVSTLVLSVC
LWRQRWKPHRQFYDTHLVAFKNPARAEV TQWE
```

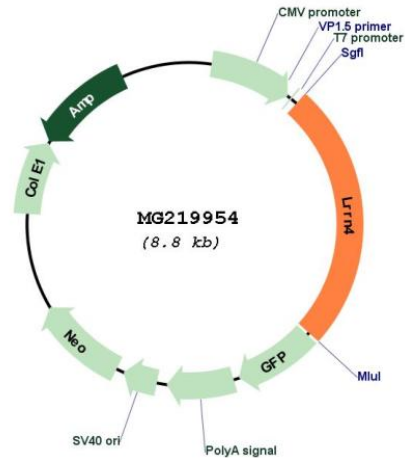
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_177303

**ORF Size:** 2199 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:** [NM\\_177303.4](#), [NP\\_796277.2](#)

**RefSeq Size:** 3475 bp

**RefSeq ORF:** 2202 bp

**Locus ID:** 320974

UniProt ID: [P59383](#)

Cytogenetics: 2 F2

Gene Summary: May play an important role in hippocampus-dependent long-lasting memory.  
[UniProtKB/Swiss-Prot Function]