

## Product datasheet for **MR221884**

### Lrrfip1 (NM\_001111311) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lrrfip1 (NM_001111311) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lrrfip1
Synonyms:	AU024550; Fliiap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR221884 representing NM\_001111311  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCAGCCAGAGGGCGCGCAAACAAGGAAATCGACTGTCTGAGTCCAGAGGCGCAAAGACTGGCGG  
 AGGCCAGGCTCGCAGCGAAGCGTGCAGCCCGAGCCGAGGCTCGAGAGATCCGGATGAAGGAGCTGGAACG  
 GCAGCAGAAAGAGGTAGAAGAAAGACCAGACAAAGACTTTGCTGAGAAGGGCTCCCGTAACATGCCTAGC  
 CTGTCTGCAGCCACACTGGCATCTCTGGGTGGGACTTCCTCCCGAGAGGGAGTGGAGATACCTCCATCT  
 CCATGGACACCGAAGCATCCATCAGGAAATCAAGGACTCGTGGCCGAAGTTGAGGAGAAGTACAAGAA  
 AGCTATGGTCTCCAACGCCAGCTAGACAATGAGAAGACCAACTTCATGTACCAGGTGGACACACTGAAG  
 GACATGCTGCTGGAGCTGGAAGAGCAGCTGGCCGAGTCTCAGCGCAATACGAGGAGAAGAACAAGGAGT  
 TCGAGAGGGAGAAGCATGCCACAGCATCTGCAGTTCAGTTTCCAGTTTGCCGAAGTGAAGAGGGCCCTGCGCA  
 AAGGGAAGAGATGCTCGAGAAACATGGAATAATCCTAAATTCAGAAATAGCCACCAACGGAGAGACTTCA  
 GACACAGTAAATGACGTTGGGTATCAAGCCCTACGAAGATAACAAAAGAAGAGCTGAATGCCCTCAAGT  
 CGGCCGGGGAGGGGACCCCTAGGAAAAGCCAAAGAAGTGGAGGTGAAAAAGGAAATTTGGGAGAAAGTGGG  
 GCAAAGAGAAACCTTACAGAATTCTGAGCAAGAACAGCCCAAACCAACACAGGAAAGGATTGTGTGGAC  
 AGAGGGGTGTCACATCCTGGTGAGAAGGCTGAGAACAGAGACCCGCTGAAGACAGTGCCCTGTCCCGG  
 GACCACTAGCAGGGGCCAAATGTGAGCAACAGGTTGAGAGCAAGATCAAGAGAATACTTCTGACCTCAA  
 AAATCAGAGCAGATCGAGTCACACAAGGTCACAAACAAGTCAGATAGTAGGGCCAGTAACTCCCCTGAA  
 CAGTCCAGCTGCCTGGAAGGCTAGACAGTGAAGTGCCAGGGCCCACTGAGGATTTGAAAACAGATTTGG  
 GGAAAGGTAGCTTTGAACCATGTCCAGACTACATTTTGGGGCAAACAGCTGAAATTGACAAGGTGACCTG  
 TACAGACTCAAGAGGCACAGGTGGAAACCAAAGGAGGATGAGGTACAGGCAGGGGACACCACAGTTGAG  
 GACCAAGTAGGGACAGTGGCTTCTGGACCTGCAAAGCAAAGCAAAGGCACCCGAGAATCATGGTGAAGTT  
 GTCTGAAGGATGGGCTGGGACAGAGCTCAGAGAGAGAACTCACCAAGAAGTAGCTGAGCCTGAGGAAGC  
 CATCGTTCAGATCCCACAGGCCGGTGGAGAGAACAATAACCAAGGCAGATGATGCCGAAGGAAGGGAT  
 GAGAAGCCATCCAGGCAGAAGCCAGGCAAGCCCTGGAGCTCCCATAAATCAGAGCGGCCATCAGGACA  
 CAACAGGACCAGGCAGCACCGATGCCAGCGCACACCACCTCATGCAAAAGAGCGCAAGAAACAAGGGAA  
 GAGCGAGCAGCAGGCAGAGGCCCTGGATTACCCGCAAGAAGACGAAGAACAAGAAGAAGAACAAG  
 AAGAAGAAGCTGCAACTCCCAGGAAACCTGCAGAGATGCCAATGAAGAGTTGAACTGTCAGGACCCAG  
 ATGTGGGTGACATGGAGGAGGAAGAGCGGCTCCAGGTCAGTACAGAAACAGGCATCAGGAAGCCAGA  
 GCAGAAAATCAGAGCGGGAAGCAGAGAACCTGTGGAAGATCCTCAAAGTGGTTCGAGTGGAAAACAGAAC  
 AAAGTGGAAAGAGGATGGTCCCACGGAAGGTCACAGACATCTTGGATCAGAACAGTCCCAGTGTGAAG  
 ACAGGGAGATCTCCCAGTGGGAGAGAAAGTCCCCAATGCGATACCTCTCAGATAGGTAGTGAAGAGGG  
 ACATGTGACCTCCAACACGGTGGTCAGGCAGTTGAGAACCACAACCTAGATAACAGTACCTGTGAGGG  
 CAGCTGGAGGGCTTCAATTCAGAAAGTGGAGGGCAGGCAAGAGAGGAGTTGGGAATAGCAAGAGTAAGG  
 AGGACTGCACCATGTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGGTTTAA

**Protein Sequence:** >MR221884 representing NM\_001111311  
 Red=Cloning site Green=Tags(s)

MTSPEGAQNKEIDCLSPEAQLAEARLAAKRAARAEAREIRMKELERQQKEVEERPKDFAEKGSRNMP  
 LSAATLASLGGTSSRRGSGDTSISMDTEASIREIKDSLAEVEEKYKAMVSNAQLDNEKTNFMYQVDTLK  
 DMLLEEEQLAESQRQYEEKNEFEREKHAHSILQFQFAEVKEALRQREMLEKHGIIILNSEIATNGETS  
 DTVNDVGYQAPTKITKEELNALKSAGEGLGKAKEVEVKKEIVEKVGQRETLQNSEQEOPKNTGKDCVD  
 RGVSHPGKAENQRPAEDSALS PGLAGAKCEQQVQSQDQENTSDLKNSEQIESHKVTNKSDSRASNSPE  
 QSSCLEGLDSEVPGPTEDLKTDLGKGFEPDYLILGQTAEIDKVTCTDSRGTGGNQREDEVQAGDTTVE  
 DQVGTVASGPAKQSKGTENHGESCLKDGLGQSSERELTQEVAEPEEAIIVQIPQAGGENTITKADDAEGRD  
 EKPIQAEAAQSPGAPINQSGHQDTTGPGSTDAQRTPPHAKERKKQKSEQQAEALDSPQKKTKNKKKKNK  
 KKAATPAETCRDANEELNCQDPDVGDMEEERLQVTDKKQASGSPEQKIRAGSREPVEDPQSGSSGKQN  
 KVEEDGPTGPTDILDQNSPQCEDREISPVGEGKGPQCDTSQIGSEEGHVT SQHGGQAVENHNLDNSDLG  
 QLEGFNSEGGQAREEVGNSKSKEDCTMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9094\\_f04.zip](https://cdn.origene.com/chromatograms/mm9094_f04.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001111311

**ORF Size:** 2187 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](mailto: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.

**RefSeq:** [NM\\_001111311.1](#), [NP\\_001104781.1](#)

**RefSeq Size:** 3662 bp

**RefSeq ORF:** 2190 bp

**Locus ID:** 16978

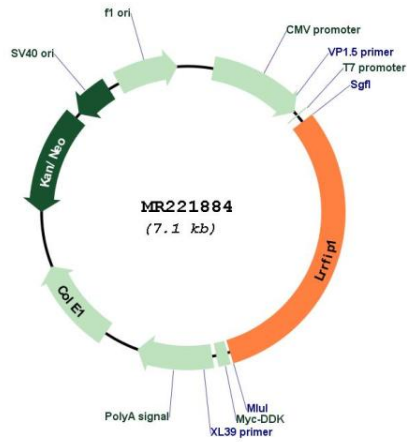
**UniProt ID:** [Q3UZ39](#)

**Cytogenetics:** 1 D

**MW:** 79.2 kDa

**Gene Summary:** Transcriptional repressor which preferentially binds to the GC-rich consensus sequence (5'-AGCCCCCGGCG-3') and may regulate expression of TNF, EGFR and PDGFA. May control smooth muscle cells proliferation following artery injury through PDGFA repression. May also bind double-stranded RNA (By similarity). Positively regulates Toll-like receptor (TLR) signaling in response to agonist probably by competing with the negative FLII regulator for MYD88-binding (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221884