

## Product datasheet for **RC226574**

### LRRFIP1 (NM\_001137553) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LRRFIP1 (NM_001137553) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRRFIP1
Synonyms:	FLAP-1; FLAP1; FLIAP1; GCF-2; GCF2; HUF1-1; TRIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226574 representing NM\_001137553  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCAGCCCCGCGCCGCTCAAAGCCGGGAGATCGACTGTTTGAGCCCAGGAGCGAGAAGCTGGCGG  
 AAGCCCGCTCGCTGCAAAACGGGCGGCCCGCGGGAGGCTCGCGAGATCCGCATGAAGGAGCTGGAGCG  
 GCAGCAGAAGGAGGTAGAAGAGAGACCAGAAAAAGATTTACTGAGAAGGGTCTCGTAACATGCCGGC  
 CTGTCTGCAGCCACGCTGGCCTCTCTGGGTGGGACTTCCTCTCGGAGAGGCAGCGGAGACACCTCCATCT  
 CCATCGACACCGAGGCATCCATCAGGAAATCAAGGACTCTCTAGCAGAAGTTGAAGAGAAATAAAGAA  
 GGCTATGGTTTCCAATGCTCAGTAGACAATGAAAAGACAAACTCATGTACCAGTTGATACCCTAAAA  
 GATATGTTGCTGGAGCTTGAAGAACAGCTGGCTGAATCTAGGCGGCAGTACGAAGAGAAAAACAAGAAT  
 TTGAAAGGGAAAAACACGCCACAGTATACTGCAATTTCAAGTTTCTGAAAGTCAAGGAGGCCCTGAAGCA  
 AAGAGAGGAAATGCTCGAGAAACATGGAATAATCCTAAATTCAGAAATAGCTACCAATGGAGAGACTTCC  
 GACACCCTCAATAATGTTGGATACCAAGGTCCTACCAAGATGACAAAAGAAGAGTTAAATGCCCTCAAGT  
 CGACAGGGGATGGGACCCTAGGAAGAGCCAGTGAAGTGGAGGTGAAAAATGAAATCGTGGCGAATGTGGG  
 GAAAAGAGAAATCTTGCACAATACTGAGAAAGAACAACACACAGAGGACACAGTGAAGGACTGTGTGGAC  
 ATAGAGGTATTCCTGCTGGTGAGAATACCGAGGACCAGAAATCCTCTGAAGACTGCCCCATTCTAG  
 GAACCTTAGCAGGTGCTACCTATGAGGAACAGGTTCAAAGCCAAATCTTGAGAGCAGTTCTCCTCTGA  
 AAACACAGTACAGTTGAGTCAAATGAGGTCATGGGTGCACCAGATGACAGGACCAGAACTCCCCTTGAG  
 CCATCCAATGTTGGAGTGACTTAGATGGTGGGAACCACAGAGAATGTGGGAGAGGCAGCAGTGACTC  
 AGGTTGAAGAGCAGGCAGGCACAGTGGCCTCGTGTCTTTAGGGCATAGTGATGACACAGTTTATCATGA  
 TGACAAATGTATGGTAGAGGTCCCCAAGAGTTAGAGACAAGCACAGGGCATAGTTTAGAGAAAGAATTC  
 ACCAACCGAAGCAGCTGAGCCCAAGGAGTTCAGCGCACAGTACAGAAGTAGGTAGGGATCACAAACG  
 AAGAAGAGGGTGAAGAAACAGGATTAAGGGACGAGAAACCAATCAAGACAGAAGTTCTGGTTCTCCAGC  
 AGGAACTGAGGGCAACTGTCAGGAAGCGACAGGTCCAAGTACAGTACAGACTCAAATGAACCTTAGAT  
 ATGAAAGAGCCCAGTGAAGAAAAGAGTGACCAACAGGGAGAGGCATTGGACTCATCGCAGAAGAAGACAA  
 AGAACAGAAAAAGAAAAACAAGAAGAAAAATCCCCAGTACCCGTAGAAACCTTAAAGATGTTAAAAA  
 AGAGTTAACGTATCAGAACACAGATTTAAGTGAATTAAGGAAGAAGAGCAGGTAAGTCTACTGACAGA  
 AAGTCAGCAGTGAAGCCAAAACGAGGTGACTGAAAATCCAAAACAGAAAATTGCAGCAGAAAGCAGTG  
 AAAATGTTGATTGCCGAGAATCCTAAAATTAAGTTGGATGGAAAATTGACCAAGAAGGTGATGATGT  
 ACAAACAGCAGCTGAGGAGGTAAGTACTGATGGAGACACATTAGATTTTGAGGATGACACCGTTCATCA  
 TCAGGCCCGAGGGCTGGTGGTGAAGAATTAGATGAAGGTGTTGCAAAAAGATAATGCTAAAATAGATGGTG  
 CCACTCAAAGCAGTCTGCAGAACCAAGAGCGAAGACGCAGATCGCTGCACCCTGCCCGAATGAAAAG  
 TCCCTCACAGGACATTAGTGATGCCTGTGAAGCAGAAAGTACAGAGAGGTGTGAGATGTCAGAACATCCA  
 AGTCAGACCGTCAGGAAAGCTTTAGACAGCAATAGCCTAGAGAACGATGACTTGTGGCACCAGGAAGAG  
 AGCCAGGGCACTTCAATCCAGAAAGCAGAGAAGATACCAGAGGAGGAATGAGAAGGGCAAAAGCAAAGA  
 AGACTGTACCATGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC226574 representing NM\_001137553  
Red=Cloning site Green=Tags(s)

MTSPAAAQSREIDCLSPEAQKLAEARLAAKRAARAEAREIRMKELERQQKEVEERPEKDFTEKGSRNMPG  
 LSAATLASLGGTSSRRGSGDTSISIDTEASIREIKDSLAEVEEKYKAMVSNAQLDNEKTNFMYQVDTLK  
 DMLLELEEQLAESRRQYEEKNKEFEREKHAHSILQFQFAEVKEALKQREEMLEKHGIIILNSEIATNGETS  
 DTLNNAVGYQGPTKMTKEELNALKSTGDGTLGRASEVEVKNEIVANVGKREILHNTEKEQHTEDTVKDCVD  
 IEVFPAGENTEDQKSS EDTAPFLGTLAGATYEEQVQSQILESSSLPENTVQVESNEVMGAPDDRTRTPLE  
 PSNCWSDLDGGNHTENVGEAAVTQVEEQAGTVASCPLGHSDDTVYHDDKCMVEVPQLETSSTGHSLEKEF  
 TNQEAAPKEVPAHSTEVGRDHNEEEGETGLRDEKPIKTEVPGSPAGTEGNCQEATGPSTVDTQNEPLD  
 MKEPDEEKSDQQGEALDSSQKTKNKKKKKNNKSPVPVETLKDVKKELTYQNTDLSEIKEEEQVKSTDR  
 KSAVEAQNEVTENPKQKIAAESSENVDCPENPKIKLDGKLDQEGDDVQTAEEVLADGDTLDFEDDTVQS  
 SGPRAGGEELDEGVAKDNAIDGATQSSPAEPKSEADRCTLPHEHSPSQDISDACEAESTERCEMSEHP  
 SQTVRKALDSNSLENDL SAPGREPGHFNPE SREDTRGGNEKKGKSKEDCTMS

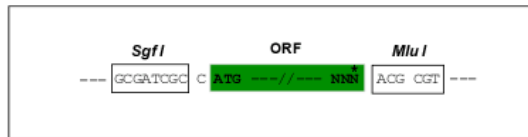
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001137553

**ORF Size:** 2256 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\\_001137553.2](#)

**RefSeq ORF:** 2259 bp

**Locus ID:** 9208

**UniProt ID:** [Q32MZ4](#)

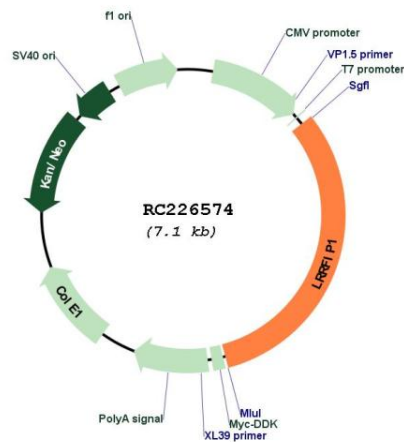
**Cytogenetics:** 2q37.3

**Protein Families:** Transcription Factors

**MW:** 82.5 kDa

**Gene Summary:** Transcriptional repressor which preferentially binds to the GC-rich consensus sequence (5'-AGCCCCGGCG-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. Positively regulates Toll-like receptor (TLR) signaling in response to agonist probably by competing with the negative FLII regulator for MYD88-binding. [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC226574