

Product datasheet for **RG226542**

LRRFIP1 (NM_001137552) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRFIP1 (NM_001137552) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRFIP1
Synonyms:	FLAP-1; FLAP1; FLIAP1; GCF-2; GCF2; HUPI-1; TRIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG226542 representing NM_001137552
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCAGCCCCGCGCCGCTCAAAGCCGGGAGATCGACTGTTTGAGCCCAGGAGCGAGAAGCTGGCGG
AAGCCCGCTCGCTGCAAAACGGGCGGCCCGCGGGAGGCTCGCGAGATCCGCATGAAGGAGCTGGAGCG
GCAGCAGAAGGAGGAAGACAGTGAAGCGCTACTCTCGTAGATCCAGAAGAAACACATCGGCTTCTGATGAA
GACGAGCGCATGTGAGTGGGTAGTCTGGAAGCCTGAGGGTAGAAGAGAGACCAGAAAAAGATTTTACTG
AGAAGGGGTCTCGTAACATGCCGGCCTGTCTGCAGCCACGCTGGCCTCTCTGGTGGGACTTCTCTCG
GAGAGGCAGCGGAGACCTCCATCTCCATCGACACCGAGGCATCCATCAGGAAATCAAGGAACCTCAAT
GAGTTAAAGGACCAGATTGAGGTGTAGAAGGCAATACATGCAGGGATTGAAAGAGATGAAGGACTCTC
TAGCAGAAGTTGAAGAGAAATATAAGAAGGCTATGGTTTCCAATGCTCAGCTAGACAATGAAAAGACAAA
CTTCATGTACCAGTTGATACCCATAAAGATATGTTGCTGGAGCTTGAAGAACAGCTGGCTGAATCTAGG
CGGCAGTACGAAGAGAAAAACAAAGAATTTGAAAGGGAAAAACACGCCACAGTATACTGCAATTTCACT
TTGCTGAAGTCAAGGAGGCCCTGAAGCAAGAGAGGAAATGCTCGAGAAACATGGAATAATCCTAAATTC
AGAAATAGCTACCAATGGAGAGACTTCCGACACCTCAATAATGTTGGATACCAAGGTCCTACCAAGATG
ACAAAAGAAGAGTTAAATGCCCTCAAGTCGACAGGGGATGGGACCTAGGAAGAGCCAGTGAAGTGGAGG
TGAAAAATGAAATCGTGGCGAATGTGGGAAAAAGAGAAATCTTGACAATACTGAGAAAGAACACACAC
AGAGGACACAGTGAAGGACTGTGTGGACATAGAGGTATTCCTGCTGGTGAAGTACCGAGGACCAGAAA
TCCTCTGAAGACTGCCCATTCCTAGAACCTTAGCAGGTGCTACCTATGAGGAACAGGTTCAAAGCC
AAATTTGAGAGCAGTTCTCTCCCTGAAAACACAGTACAGGTTGAGTCAAATGAGGTCATGGGTGCACC
AGATGACAGGACCAGAACTCCCTTGAGCCATCCAAGTGTGGAGTGACTTAGATGGTGGGAACACACA
GAGAATGTGGGAGAGGCAGCAGTGACTCAGGTTGAAGAGCAGGCAGGCACAGTGGCCTCGTGTCTTTAG
GGCATAGTGATGACACAGTTTATCATGATGACAAATGTATGGTAGAGGTCCCCAAGAGTTAGAGACAAG
CACAGGGCATAGTTTAGAGAAAGAATTCACCAACCAGGAAGCAGCTGAGCCCAAGGAGTTCCAGCGCAC
AGTACAGAAGTAGGTAGGGATCACAAACGAAGAAGAGGGTGAAGAAACAGGATTAAGGGACGAGAAACCA
TCAAGACAGAAGTTCTGGTCTCCAGCAGGAAGTGAAGGCAACTGTGAGGAGCAGAGGTTCAAGTAC
AGTAGACTCAAAATGAACCTTAGATATGAAAGAGCCCGATGAAGAAAAGAGTGACCAACAGGGAGAG
GCATTTGACTCATCGCAGAAGAAGACAAAGAACAAGAAAAAGAAAAACAAGAAGAAAAATCCCCAGTAC
CCGTAGAAACCTTAAAGATGTTAAAAAAGAGTTAACGTATCAGAACACAGATTTAAGTGAATTAAGGA
AGAAGAGCAGGTAAGTCTACTGACAGAAAGTCAGCAGTGAAGGCCAAAACGAGGTGACTGAAAATCCA
AAACAGAAAATTCAGCAGAAAGCAGTGAATGTTGATTGTCCGGAGAAATCCTAAAATTAAGTTGGATG
GAAAACCTTGACCAAGAAGGTGATGATGTACAAACAGCAGCTGAGGAGGTACTAGCTGATGGAGACACATT
AGATTTGAGGATGACACCGTTCAATCATCAGGCCCGAGGGCTGGTGGTGAAGAATTAGATGAAGGTGTT
GCAAAAGATAATGCTAAAATAGATGGTCCACTCAAAGCAGTCTGCAGAACCAAGAGCGAAGACGCAG
ATCGCTGCACCTGCCCAACATGAAAGTCCCTCACAGGACATTAGTGTGCCTGTGAAGCAGAAAGTAC
AGAGAGGTGTGAGATGTCAGAACATCCAAGTCAGACCGTCAGGAAAGCTTTAGACAGCAATAGCCTAGAG
AACGATGACTTGTGGCACCAGGAAGAGAGCCAGGGCACTTCAATCCAGAAGCAGAGAAGATACAGAG
GAGGGAATGAGAAGGGCAAAAGCAAAGAAGACTGTACCATGTCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226542 representing NM_001137552
 Red=Cloning site Green=Tags(s)

MTSPAAAQSREIDCLSPEAQKLAEARLAAKRAARAEAREIRMKELERQQKEEDSERYSRRSRNTSASDE
 DERMSVGSRGSLRVEERPEKDFTEKGSRNMPGLSAATLASLGGTSSRRGSGDTSISIDTEASIREIKELN
 ELKDQIQDVEGKYMQLKEMKDSLAEVEEKYKKAMVSNAQLDNEKTNFMYQVDTLKDMLLEEEQLAESR
 RQYEEKNKEFEREKHAHSILQFQFAEVKEALKQREEMLEKHGIILNSEIATNGETSDTLNNGVYQGPTKM
 TKEELNALKSTGDGTLGRASEVEVKNEIVANVGKREILHNTEKEQHTEDTVKDCVDIEVFPAGENTEDQK
 SSEDTPAFLGTLAGATYEEQVQSQILESSSLPENTVQVESNEVMGAPDDRTRTRPLESNCWSDLDGGNHT
 ENVGEAAVTQVEEQAGTVASCPLGHSDDTVYHDDKCMVEVPQLELETSTGHSLEKEFTNQEAAPKEVPAH
 STEVGRDHNEEEGEETGLRDEKPIKTEVPGSPAGTEGNCQEATGPSTVDTQNEPLDMKEPDEEKSDQQGE
 AFDSSQKKTKNKKKKKKKSPVPVETLKDVKKELTYQNTDLSEIKEEEQVKSTDRKSAVEAQNEVTENP
 KQKIAAESSENVDCPENPKIKLDGKLDQEGDDVQTAEEVLADGDTLDFEDDTVQSSGPRAGGEELDEGV
 AKDNAKIDGATQSSPAEPKSEADRCTLPEHESPSQDISDACEAESTERCEMSEHPSQTVRKALDSNSLE
 NDDLAPGREPGHFNPESEDTRGGNEKGSKEDCTMS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI *BamHI* *KpnI* *RBS* *Kozac Consensus* *SgfI* *AscI*
 CTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

HindIII *NheI* *RsrII* *MluI* *NotI* *XhoI* *GFP Tag*
 CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC -----
 T R T R P L E M E S D - - -

PmeI *FseI*
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

ACCN: NM_001137552

ORF Size: 2424 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_001137552.1](#), [NP_001131024.1](#)

RefSeq Size: 4510 bp

RefSeq ORF: 2427 bp

Locus ID: 9208

UniProt ID: [Q32MZ4](#)

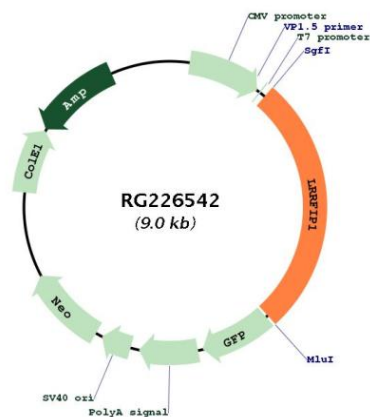
Cytogenetics: 2q37.3

Protein Families: Transcription Factors

MW: 89.3 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 RG226542