

Product datasheet for **RG224063**

LRRFIP2 (NM_006309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRRFIP2 (NM_006309) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRRFIP2
Synonyms:	HUFI-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224063 representing NM_006309
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGACTCCTGCTTCTGGAAGGAAAAGAACACCTGTGAAAGACCGATTTTCTGCAGAAGATGAAGCTT
 TGAGTAACATTGCCAGAGAGGCAGAGGCAAGGCTGGCAGCAAAACGGGCTGCCCGGCAGAAAGCAAGAGA
 TATACGCATGAGAGAACTGGAACGACAACAAAAAGAGTACTCTCTTCATTCTTTGATCGGAAGTGGGA
 CAGATTCAGAAGTGGCTGGAAGATTCGAAAGGGCCAGGTATTCCACCGGTCCAGTCACCATCGTCCTT
 ATCTGGGAGTTGAGGATGCATTGCCATTCGAAGTGTGGCAGTCACAGGTATGATATGTTCAAGGATAG
 ATCATCAAGACTTTCATCATTAAATCATTCTTACAGTCACTCTCATGGAATGAAGAAGAGGTCTTCTGAT
 TCTCATAAAGACCTACTGAGTGGCCTCTACTTTGACCAGAGAACTATAGCAGTCTTAGACATAGCAAAC
 CCACCTCTGCCTACTACACTCGGCAGTCTTCTCCCTGTACAGTGACCCTCTGGCAACATATAAGAGTGA
 CAGGGCCTCTCCTACTGCAAATCTGGTCTGCTGAGAAGTGCCAGTCTGGCATCATTGTACAATGGTGGA
 TTATATAACCCCTTATGGTCTCGAACTCCATCTGAATGCAGTTATTATTATCAAGAATAAGTTCAGCCC
 GAAGCAGTCCAGGGTTTACCAACGATGACTGCAAGCATTGTGTCTTCTGATCGTGCCAGTCTGGACG
 AAGGGAGAGTGTGGTATCTGCCGCTGATATTTTCAGTCGCTCCAATCGTAGGGGAAGTGTGTCTCTGAG
 GTGGATGATATCAGTATCCCAGATTTGTCCAGCTTGGATGAAAAATCTGACAAACAGTATGCTGAAAATT
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 AAGTGGGACACCAGCAGCTTAATAGATCCAGACACTTCATTAAGTGAATTGCGGGATATCTATGACCTT
 AAGTGGGAGAAAAATACAAGAAAGCCATGGTTTCCAATGCACAGTTAGACAATGAGAAGAACAATTTGAT
 CTACCAAGTAGACACACTCAAGGATGTTATTGAAGAGCAGGAGGAACAGATGGCAGAATTTTATAGAGAA
 AATGAAGAAAAATCAAAGGAGTTAGAAAGCAGAAACATATGTGTAGTGTCTGCAGCATAAGATGGAAG
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 TGCAGGAGACAGTGAAGACGGGAGAGAAACATGGCTTAGTTATAATCCCCGATGGCACTCCCAATGGTGA
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 CCTGGCAGGACTGCAGAATGGCTCAGACTTGCAGTTCATCGAAATGCAGAGAGATGCCAATAGACAAATT
 AGCGAATACAAATTTAAGCTTTCAAAGCAGAACAGGATATAACTACCTTGGAGCAAAGTATTAGCCGGC
 TTGAGGGACAGGTTCTGAGATATAAACTGCTGCTGAGAATGCTGAGAAAGTTGAAGATGAATTGAAAGC
 AGAAAAACGGAAGCTACAACGAGAGTTACGAACAGCACTGGACAAGATTGAGGAGATGGAGATGACCAAC
 AGCCACCTGGCCAAGCGGCTGGAGAAGATGAAGGCCAATAGGACAGCACTTCTGGCCAGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

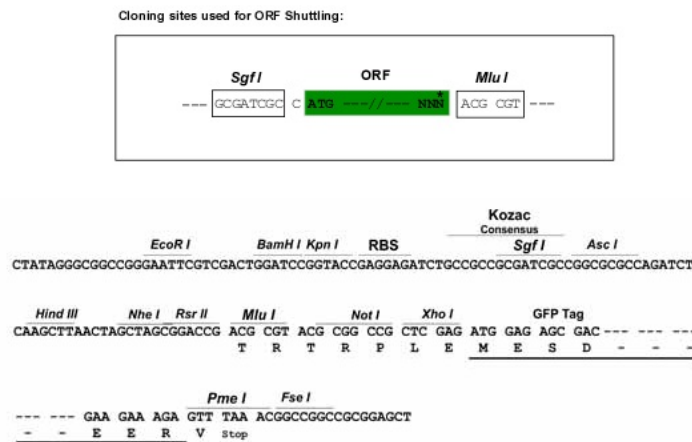
Protein Sequence: >RG224063 representing NM_006309
 Red=Cloning site Green=Tags(s)

MGTPASGRKRTPVKDRFSAEDEALSNIAREAEARLAAKRAARAEARDIRMRELERQQKEYSLHSFDRKWG
 QIQKWLSEDERARYSHRSSHHRPYLGVEDALSIRSVGSHRYDMFKDRSSRLSSLNHSYSHSHGMKKRSSD
 SHKDLLSGLYFDQRNYSSLRHSKPTSAYYTRQSSSLYSDPLATYKSDRASPTANSGLLRASLASLYNGG
 LYNPYGPRTPSECSYSSRISSARSSPGFTNDDTASIVSSDRASRGRRESVVSAADYF SRSNRRGSSVVE
 VDDISIPDLSSLDEKSDKQYAENYTRPSSRNSASATTPLSGNSSRRSGDTSSLIDPDTSLSEL RDIYDL
 KDQIQDVEGRYMQGLKELKESLSEVEEKYKAMVSNAQLDNEKNLIYQVDTLKDVIEEQEEQMAEFYRE
 NEEKSKELERQKHMCSVLQHKMEELKEGLRQRDELIEEKQRMQQKIDTMTKEVFDLQETLLWKDKKIGAL
 EKQKEYIACL RNERDMLREELADLQETVKTGEKHGLVIIPDGT PNGDVSHEPVAGAITVVSQEAQVLES
 AGEGPLDVRLRKLAGEKEELL SQIRKLLKLEEERQKCSRNDGT VGDLAGLQNGSDLQFIEMQRDANRQI
 SEYKFKLSKAEQDITTTLEQSI SRLEGQVLRKYTAAENA EKVEDELKAEKRKLQRELRTALDKIEEMEMTN
 SHLAKRLEKMKANRTALLAQQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006309

ORF Size: 2163 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_006309.4](#)

RefSeq Size: 2412 bp

RefSeq ORF: 2166 bp

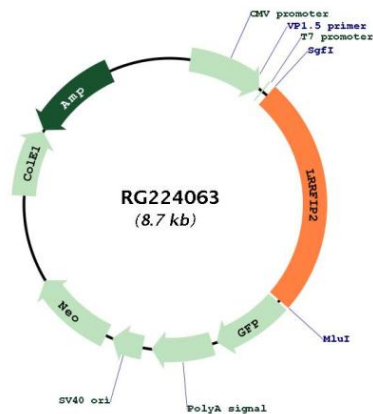
Locus ID: 9209

UniProt ID: [Q9Y608](#)

Cytogenetics: 3p22.2

Gene Summary: The protein encoded by this gene, along with MYD88, binds to the cytosolic tail of toll-like receptor 4 (TLR4), which results in activation of nuclear factor kappa B signaling. The ubiquitin-like protein FAT10 prevents the interaction of the encoded protein and TLR4, thereby inactivating the nuclear factor kappa B signaling pathway. In addition, this protein can downregulate the NLRP3 inflammasome by recruiting the caspase-1 inhibitor Flightless-I to the inflammasome complex. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG224063