

Product datasheet for **SC321988**

FPRL1 (FPR2) (NM_001005738) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FPRL1 (FPR2) (NM_001005738) Human Untagged Clone
Tag:	Tag Free
Symbol:	FPRL1
Synonyms:	ALXR; FMLP-R-II; FMLPX; FPR2A; FPRH1; FPRH2; FPRL1; HM63; LXA4R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC321988
 GAAGGAAGGGCTGGACATT CAGATT CCTTGACCCTTGACATTTGGAAGCATGAACTCCAG
 TCTCTCACAGAAGGCTAGAGGTGAAGGAACATT CAGACACATTGGTTTCTAAGAAGAGTC
 CGCTGACAACATACCCAAGGTGTCTTCTGAAAATTATAAGAAATCCTGAGTTTCTGTTAG
 GGGATTGGCTCCAGCTCCATTGTCCCTCCCCATCATT CAGTAGTCTCCGCGAAAGCCCT
 TAGAGCCGGTGTGTCTCCACAGGAAGCCAAGAAGCACACAGGAAAAGGAGCTTAGCTGCT
 GGTGCTGCTGGCAAGATGAAAACCAACTTCTCCACTCCTCTGAATGAATATGAAGAAGTG
 TCCTATGAGTCTGCTGGCTACACTGTTCTGCGGATCCTCCATTGGTGGTCTTGGGGTC
 ACCTTTGTCTCGGGTCTGGGCAATGGGCTTGTGATCTGGGTGGCTGGATTCCGGATG
 ACACGCACAGTCACCACCATCTGTTACCTGAACCTGGCCCTGGCTGACTTTTCTTTCACG
 GCCACATTACCATTCTCATTGTCTCCATGGCCATGGGAGAAAAATGGCCTTTTGGCTGG
 TTCCTGTGTAAGTTAATTCACATCGTGGTGGACATCAACCTCTTGGAAAGTGTCTTCTTG
 ATTGGTTTCATTGCACTGGACCGCTGCATTTGTGCTCTGCATCCAGTCTGGGCCAGAAC
 CACCGCACTGTGAGTCTGGCCATGAAGGTGATCGTCGGACCTGGATTCTTGCTTAGTC
 CTTACCTTGCCAGTTTTCTCTTTTACTACAGTAACTATTCCAAATGGGGACACATAC
 TGTAATTTCAACTTTGCATCCTGGGGTGGCACCCCTGAGGAGAGGCTGAAGGTGGCCATT
 ACCATGCTGACAGCCAGAGGGATTATCCGGTTTGTATTGGCTTTAGCTTGCCGATGTCC
 ATTGTTGCCATCTGCTATGGGCTCATTGCAGCCAAGATCCACAAAAAGGGCATGATTA
 TCCAGCCGTCCCTTACGGGTCTCACTGCTGTGGTGGCTTCTTTCTTCATCTGTTGGTTT
 CCCTTTCAACTGGTTGCCTTCTGGGCACCGTCTGGCTCAAAGAGATGTTGTTCTATGGC
 AAGTACAAAATCATTGACATCCTGGTTAACCAACGAGCTCCCTGGCCTTCTTCAACAGC
 TGCCTCAACCCCATGCTTACGTCTTTGTGGCCAAGACTCCGAGAGAGACTGATCCAC
 TCCCTGCCACCAAGTCTGGAGAGGGCCCTGTCTGAGGACTCAGCCCCAACTAATGACACG
 GCTGCCAATTCTGCTTACCTCCTGCAGAGACTGAGTTACAGGCAATGTGAGGATGGGGT
 CAGGGATATTTTGTGTTCTGTTACCTACCCTAATGCCAGTTCCAGTTCATCTACCCT
 TGAGTCATATTGAGGCATTCAAGGATGCACAGCTCAAGTATTTATTCAGGAAAAATGCTT
 TTGTGTCCTGATTTGGGGCTAAGAAATAGACAGTCAGGCTACTAAAAATTTAGTGTTAT
 TTTTGTGTTTTGACTTCTGCCTATACCCTGGGGTAAGTGGAGTTGGGAAATACAAGAAG
 AGAAAGACCAGTGGGGATTTGTAAGACTTAGATGAGATAGCGCATAATAAGGGGAAGACT
 TTAAGTATAAAGTAAAATGTTTGTGTAGTTTTTTATAGCTATTAATAAAAAATCAGAT
 TATGGAAGTTTTCTTCTATTTTTAGTTTGTCTAAGAGTTTTCTGTTTCTTTTCTTACATC
 ATGAGTGGACTTTGCATTTATCAAATGCATTTTCTACATGTATTAAGATGGTCATATTA
 TTCTTCTTCTTTATGTAATCATTATAAATAATGTTTCATTAAGTTCTGAATGTTAACT
 ACTCTTGAATTCCTGGAATAAACACACTTAGTCTGATGTACTTTAAATATTTATATCT
 CACAGGAGTTGGTTAGAAATTTCTGTGTTATGTTTATATACTGTTATTTCACTTTTTCTA
 CTATCCTTGCTAAGTTTTCATAGAAAATAAGGAACAAAGAAAATTTGTAATGGTCTCTG
 AAAAGGAATTGAGAAGTAATTCCTCTGATTCTGTTTTCTGGTGTATATCTTTATTAAT
 ATTCAGAAAAATTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001005738

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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001005738.1](#), [NP_001005738.1](#)

RefSeq Size: 1921 bp

RefSeq ORF: 1056 bp

Locus ID: 2358

UniProt ID: [P25090](#)

Cytogenetics: 19q13.41

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary:

Low affinity receptor for N-formyl-methionyl peptides, which are powerful neutrophil chemotactic factors (PubMed:1374236). Binding of FMLP to the receptor causes activation of neutrophils (PubMed:1374236). This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system (PubMed:1374236). The activation of LXA4R could result in an anti-inflammatory outcome counteracting the actions of proinflammatory signals such as LTB4 (leukotriene B4) (PubMed:9547339). Receptor for the chemokine-like protein FAM19A5, mediating FAM19A5-stimulated macrophage chemotaxis and the inhibitory effect on TNFSF11/RANKL-induced osteoclast differentiation (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.