

## Product datasheet for MC206604

### F2rl1 (BC025432) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	F2rl1 (BC025432) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	F2rl1
Synonyms:	Par2, PAR-2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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**Fully Sequenced ORF:**

>BC025432  
GTCGCCACCGTCCGGGAAGGGACCTGTGCTCAGAGTAGGGCTCCGAGTTCAACCAGTGGTGC  
GGATTGCCGCCGCCGCCACGTCCGGGAATCGAAGTCTCAGCTGGCTGGCTCTGGAGGTATCACC  
CTTCTGGCGGCCCTCGGTCTCTGCAGCCGACCGAGAACCTTCACCGGACGCAACAACAGTAAAGGAA  
GAAGTCTATTGGCAGATTGAAACCCAGCCTCCAATCACTGGAAAGGGGTTCCGGTAGAACCCAGGCTT  
TTCCATCGATGAGTCTCTCGTCCATCCTCACCGGAAAGCTGACCAACTGTCTTCTCCGGTCGTCTAC  
ATTATTGTGTTGTATTGGTTGCCAGTAATGGCATGCCCTGGATCTCCCTTCCGAACGAAGA  
AGAAAACACCCCGCCGTATTACATGGCAACCTGGCCTTGCTGACCTCCTCTGTATCTGGTCCC  
CCTGGCATTGCCATACCACCTACATGGCAACAACGGGTATGGGAGGCCCTGCAAGGTGCTCATT  
GGCTTTCTATGGCAACATGTATTGTCATCCTCATGACCTGCCTCAGCGTCAGAGGTAUTGG  
TGATCGTAACCCATGGGGACCCAGAAGAAGGCAAATCGCCGTTGGCTCCTGGCAATCTG  
GCTCTGATTTCTGGTACCATCCCTTGATGTATGTCATGAAGCAGACCATCTACATTCCAGCCTGAAC  
ATCACCACTGCCACGATGTGCTGCCTGAGGAGGTATTGGGGGACATGTTCAATTACTTCCTC  
TGGCATTGGAGTCTCCTGTTCCGCCATCCTACTGCATCTGCTACGTGTCATGATCAAGACGCT  
CCGCTCTCTGCTATGGATGAAACACTCAGAGAAGAAAGCAGAGGGCTATCGACTCATCACCGT  
CTGGCCATGTAATCTGCTTGCCTAGCAACCTCTGCTGCTAGTCATTATTCCTAATCAAAA  
CCCAGAGGCAGGCCACGTCTACGCCCTCACCTCGTCGCCCTGCGACTCTCAACAGCTGC  
AGACCCCTTGCTATTACTTGCTCAAAGATTCAAGGATCACGCCAGGAACGCCCTGCG  
AGTGTCCGACTGTGAATGCATGCAAATCTCCCTAGCTCAACAGTTCTCCAGGAAGTCCGGCTC  
ACTCTCAAGCTAACAGTGTAAAACCTCTACTGAGCTGTACCTGAGGATGTCAGCCTGTTGATG  
ATGATGATGATGATGATGATGATGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGAGAG  
CGTAGTAGGAATGCACCAACATGCATGAGGCTGTCATTCTATCAAGCTGCTGGCTCTGCACCAATC  
ACAAGCATGCAGCTCTCCCAAGATGCCAGAACGCTCTCTGCTGATGAGAACAGTCTCCACTCTGA  
TGAAAAGCATCAGTATCAGAAACTGAAACAAACTGAGGAGCATGTTGTGGAAGTGAAGAGAGGATG  
GAGGGTCAGTGACTGCAAAAAACCAACCAACAAAAGCACACCTGGCAAGAAGGCTAACACTCTC  
TGAAATGCTCTTCCATCTGGAGTTCGTCACGGCTTGTTCAGGACCTGAGGCCCTGGTAGAGCTTC  
AGTCCAGTTGATTGACTTTACAGACTTGAGAGAGGAATGAATGAGGAGTGAATGCGGCTCTGGCGCAT  
CCTAACCGGCTAACAGTGGCCTGCGACAATAGGATTAGATGGCTGGAGTTACATTCTCACACCATT  
TCATCAGAACTATTGGGATCTGATCAATGTGCAGGCTCTAGCGTCAGTAACCTGGAGGCTCAGAC  
ACGATGGGGTGAGGTGGGGTGGGGTGAGGCTACAAACCTTAGTGTGACTGCAGACAC  
AGAACCATGGAGCTGAGCCTGCTTGTGAGGACACTGTAATGTTGCAAGAAAACCAACA  
GCAGTGTGAGGCTTTGGTCAAGTTATGTAATTGCTATTGGTTATTGGGATTTCA  
TTCTTATTACTTGTTGTAATTGTTGTTATTAGTCAGAAAGATGAGGCTTAA  
GTAAATAAAATTGTTGTTTTGGTTTTACTGGCCAACACTAAATACTGTTAGGTTTTCT  
AACTTAATTAAACTACATGTGAACTTAAGACATTTCATGATAAGCATTACTGAGTGT  
TTCCCTCATCCTCGATCATGCTTCCCATGAAGCAGGGCCCTCCCCCCCCCTTGCCTTCC  
CTCCCCACCAAGATGCTCTGCTGTTAACCTACAGTTAGTATTATAAAACTGATCATTGAA  
TATTATTACTGGTTACTGTTACGTTCAACTTGTCAATTGCTCAATAATGGAATTACGTC  
TTCTCATCTGTTGAGAAAGATCTGAAACAAGGGGCCATTGAGGATACATGGCTCAGGCTTACTTTA  
TACTGCCTGATTGTGGCTTAAAAAAAGACCTTGTATATGATGCTTATAAATAAATG  
ATGAACTTTTAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG

**Restriction Sites:**

EcoRI-NotI

**ACCN:**

BC025432

**Insert Size:**

1200 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC025432</a></u> , <u><a href="#">AAH25432</a></u>
<b>RefSeq Size:</b>	2772 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	14063
<b>Cytogenetics:</b>	13 49.53 cM

**Gene Summary:**

Receptor for trypsin and trypsin-like enzymes coupled to G proteins. Its function is mediated through the activation of several signaling pathways including phospholipase C (PLC), intracellular calcium, mitogen-activated protein kinase (MAPK), I-kappaB kinase/NF-kappaB and Rho. Can also be transactivated by cleaved F2r/Par1. Involved in modulation of inflammatory responses and regulation of innate and adaptive immunity, and acts as a sensor for proteolytic enzymes generated during infection. Generally is promoting inflammation. Can signal synergistically with Tlr4 and probably Tlr2 in inflammatory responses and modulates Tlr3 signaling. Has a protective role in establishing the endothelial barrier; the activity involves coagulation factor X. Regulates endothelial cell barrier integrity during neutrophil extravasation, probably following proteolytic cleavage by PRTN3 (By similarity). Proposed to have a bronchoprotective role in airway epithelium, but also shown to compromise the airway epithelial barrier by interrupting E-cadherin adhesion. Involved in the regulation of vascular tone; activation results in hypotension presumably mediated by vasodilation. Associates with a subset of G proteins alpha subunits such as GNAQ, GNA11, GNA14, GNA12 and GNA13, but probably not with G(o) alpha, G(i) subunit alpha-1 and G(i) subunit alpha-2. Believed to be a class B receptor which internalizes as a complex with arrestin and traffic with it to endosomal vesicles, presumably as desensitized receptor, for extended periods of time. Mediates inhibition of TNF-alpha stimulated JNK phosphorylation via coupling to GNAQ and GNA11; the function involves dissociation of Ripk1 and Tradd from Tnfr1. Mediates phosphorylation of nuclear factor NF-kappa-B RELA subunit at 'Ser-536'; the function involves Ikbkb and is predominantly independent of G proteins. Involved in cellular migration. Involved in cytoskeletal rearrangement and chemotaxis through beta-arrestin-promoted scaffolds; the function is independent of GNAQ and GNA11 and involves promotion of cofilin dephosphorylation and actin filament severing. Induces redistribution of Cops5 from the plasma membrane to the cytosol and activation of the JNK cascade is mediated by Cops5. Involved in the recruitment of leukocytes to the sites of inflammation and is the major PAR receptor capable of modulating eosinophil function such as proinflammatory cytokine secretion, superoxide production and degranulation. During inflammation promotes dendritic cell maturation, trafficking to the lymph nodes and subsequent T-cell activation. Involved in antimicrobial response of innate immune cells; activation enhances phagocytosis of Gram-positive and killing of Gram-negative bacteria. Acts synergistically with interferon-gamma in enhancing antiviral responses (By similarity). [UniProtKB/Swiss-Prot Function]