

Product datasheet for **RR208210**

F11r (NM_053796) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	F11r (NM_053796) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	F11r
Synonyms:	Jam1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR208210 representing NM_053796 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACCGAGGGGAAAGCCGGGAGCAAACACTGTTGTTTCTCTTCACGTCTATGATCCTGGGCTCCTTGG
TGCAAGGCAAGGGTTCGGTGTACAGTCTCAGACTGCCGTCCAGGTTCTGAGAACGACTCTGTCAAGTT
GCCCTGTATCTACTCTGGCTTCTCCTCACCCCGTGGAGTGAAGTTCGTCGAAGGCAGCACCCTGCG
CTTGTGTGCTATAACAACAGATCACAGTTCCTATGCAGACCGCTCACCTTCTCATCCAGTGGCATCA
CCTTCAGTCTGTGACCCGAAAGACAATGGAGAGTATACTTGCATGGTCTCTGAGGACGGGGTTCAGAA
CTACGGGGAGGTCAGATCCACCTCACTGTGCTTGTGCCTCCATCCAAGCCGACAGTCAGTATCCCTCC
TCTGTACCACTTGGAAACAGGGCAGTGCTGACCTGCTCAGAACACGACGGTTCCTCTCTGAATATT
CCTGGTTCAAGGATGGGGTACCTATGCTTACAGCAGATGCCAAGAAAACCCGTGCCTTCAATCTTTC
ATACACCATCGATCCAAAGTCAGGGGATTTGGTCTTTGACCTGTGTCAGCCTTTGATAGTGGCGAATAC
TACTGCGAGGCACAGAACGGGTATGGGACAGCCATGAGGTGAGAGGCTGTACGCATGGAGGCTGTGGAGC
TGAATGTGGGGGGCATCGTGGCAGCTGTCTGGTAACACTGATTCTCCTTGGACTCCTGATTTTTGGCAT
CTGGTTTGCTATAGCCGTGGATACTTTGAAAGAAACAAAGAAAGGACTGCACCCGGTAAGAAGTTCATT
TACAGCCAGCCAGTGTCTCGCAGTGAGGAGAATTCAAACAGACCTCGTCATTCTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208210 representing NM_053796
 Red=Cloning site Green=Tags(s)

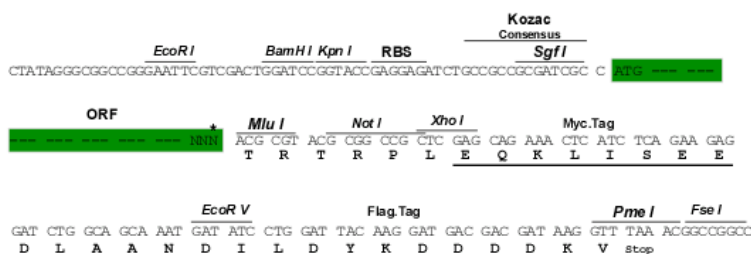
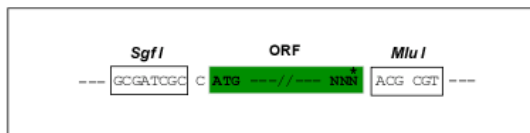
MGTEGKAGSKLLFLFTSMILGSLVQGKGSVYSPQTAVQVPENDSVKLPICIYSGFSSPRVEWKFVQGSTTALVCYNNQITVPYADRVTFSSSGITFSSVTRKDNGEYTCMVSEDDGGQNYGEVSIHLTVLVPPSKPTVSIPLSVTIGNRAVLTCSEHDGSPPEYSWFKDGVPLMTADAKKTRAFINSSYIDPKSGDLVFDVPSAFDSGEY YCEAQNGYGTAMRSEAVRMEAVELNVGGIVA AVLVTLLILLGLLIFGIWFAYSRGYFERTKKGTA PGKKVI YSQPSARSEGEFKQTSSFLV

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_053796

ORF Size: 900 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_053796.1](#), [NP_446248.1](#)

RefSeq Size: 1895 bp

RefSeq ORF: 903 bp

Locus ID: 116479

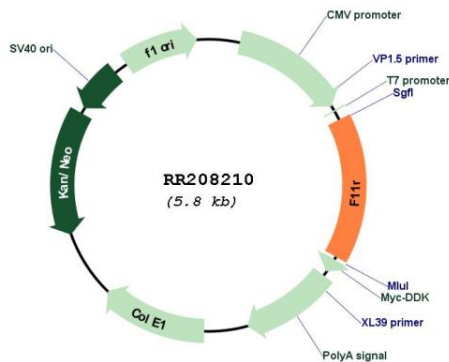
UniProt ID: [Q9JHY1](#)

Cytogenetics: 13q24

MW: 32.4 kDa

Gene Summary: Seems to play a role in epithelial tight junction formation. Appears early in primordial forms of cell junctions and recruits PARD3. The association of the PARD6-PARD3 complex may prevent the interaction of PARD3 with JAM1, thereby preventing tight junction assembly. Plays a role in regulating monocyte transmigration involved in integrity of epithelial barrier. Ligand for integrin alpha-L/beta-2 involved in memory T-cell and neutrophil transmigration. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR208210