

Product datasheet for SC114147

Junctional Adhesion Molecule 1 (F11R) (NM_016946) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Junctional Adhesion Molecule 1 (F11R) (NM_016946) Human Untagged Clone
Tag:	Tag Free
Symbol:	Junctional Adhesion Molecule 1
Synonyms:	CD321; JAM; JAM1; JAMA; JCAM; KAT; PAM-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114147 sequence for NM_016946 edited (data generated by NextGen Sequencing)

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ATGGGGACAAAGCGCAAGTCGAGAGGAAACTGTTGTGCCTCTTCATATTGGCGATCCTG
TTGTGCTCCCTGGCATTGGGCAGTGTTACAGTGCCTCTTCTGAACCTGAAGTCAGAATT
CCTGAGAATAATCCTGTGAAGTTGCTCCTGTGCCTACTCGGGCTTTTCTTCTCCCCGTGTG
GAGTGGAAAGTTTGACCAAGGAGACACCACCAGACTCGTTTGCTATAATAACAAGATCACA
GCTTCCTATGAGGACCGGGTGACCTTCTTGCCAACTGGTATCACCTTCAAGTCCGTGACA
CGGGAAGACACTGGGACATACACTTGTATGGTCTCTGAGGAAGGCGGCAACAGCTATGGG
GAGGTCAAGGTCAAGCTCATCGTGCTTGTGCCTCCATCCAAGCCTACAGTTAACATCCCC
TCCTCTGCCACCATTGGGAACCGGGCAGTGCTGACATGCTCAGAACAAGATGGTTCCCCA
CCTTCTGAATACACCTGGTTCAAAGATGGGATAGTGATGCCTACGAATCCAAAAGCACC
CGTGCCTTCAGCAACTCTTCCTATGTCCTGAATCCCACAACAGGAGAGCTGGTCTTTGAT
CCCCTGTGAGCCTCTGATACTGGAGAATACAGCTGTGAGGCACGGAATGGGTATGGGACA
CCCATGACTTCAAATGCTGTGCGCATGGAAGCTGTGGAGCGGAATGTGGGGGTTCATCGTG
GCAGCCGTCCCTTGAACCCTGATTCTCCTGGGAATCTTGGTTTTTGGCATCTGGTTTGCC
TATAGCCGAGGCCACTTTGACAGAACAAAGAAAGGGACTTCGAGTAAGAAGGTGATTTAC
AGCCAGCCTAGTGCCCGAAGTGAAGGAGAATTCAAACAGACCTCGTCATTCTGGTGTGA

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Clone variation with respect to NM_016946.4



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016946 unedited
 GTTGGATTTGTATACGACTCATATAGGGCGGCCGCAATTTCGCACGAGGCTGTTCCCAGG
 AGTCCTTCGGCGGCTGTTGTGTCTGGGAGCCTGATCGCGATGGGGACAAAGGCGCAAGTCG
 AGAGGAAACTGTTGTGCCTCTTCATATTGGCGATCCTGTTGTGCTCCCTGGCATTGGGCA
 GTGTTACAGTGCCTCTTCTGAACCTGAAGTCAGAATTCCTGAGAATAATCCTGTGAAGT
 TGTCCTGTGCCTACTCGGGCTTTTCTTCTCCCCGTGTGGAGTGGAAAGTTGACCAAGGAG
 ACACCACCAGACTCGTTTGTCTATAATAACAAGATCACAGCTTCCTATGAGGACCGGGTGA
 CCTTCTTGCCAACTGGTATCACCTTCAAGTCCGTGACACGGGAAGACACTGGGACATACA
 CTTGTATGGTCTCTGAGGAAGGCGGCAACAGCTATGGGGAGGTCAAGGTCAAGCTCATCG
 TGCTTGTGCCTCCATCCAAGCCTACAGTTAACATCCCCTCCTCTGCCACCATTGGGACCG
 GGGGCAGTGCTGACATGCTCAGAACAAGATGGTCCCCACCTTCTGAATACACCTGGTTC
 ANAGATGGGATAGTGATGCCTACGAATCCCAAAGCACCCGTGCCTTCAGCAACTCTTCC
 TATGTCCTGAATCCACACAGGAGAGCTGGTCTTGTATCCCCTGTGAGCCTCTGATACTG
 GAGAATACAGCTGTGAGCACGGATGGGGTATGGGACACCCATGACTTCAAATGCTGTGCG
 CATGGAAGCTGTGGAGCGGATGGTGGGGGGTTCATCGTGCAGCCGTTCTTGTACCCTGN
 ATCTCTGGGATCTGGGGTTTTTGCATCCGGGTTTGTATAGCCGAGCCACTTTGACAGAA
 CAAAAAGGGACTCGAGTTAGAAGGTGAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016946 unedited
 GGGGNGACNNCCNTCCNNTNNNNNNNNNNNTTTCTTGNACCCGGCCGATTCTANATCG
 AGTTTTTTTTTTTTTTTTTCAATGTGAAATAAAGTTTATTATAAAAATTAGTTTTGACA
 TTTTAAAGTGAATGCAGACAAGGTGTTTTCCAGTTCAAAAGGTCCATTGTAAGCTAGAGA
 AGTAAATTCGAAGCTGGCAATAACTGACTCATATTCTTCACAAGTGGCCTAGACAATAA
 GGAACCATTACCTCAAATTCACAGAGCCATGAATCACCTCTGCTTCCCATGACCTTTT
 CCATATCCTTCTACTCTGTCTTCCAACCATGACACAGAACTGAAACATACTTTAAAAAT
 CTCATCCTTGGCTAGGCACGGTGGCTCACATCTGTAATCCCATCACTTTGGGAGGCCAAG
 GCAGGCGGATCAAGAGGTGAGGAGTTCGAGACCAGCCGACCAACATGGTGAAACCCTGT
 CTCTACTAAAAACAAAAAACTAGCCAGGCATGGTGGCACGCACCCGCAATCCCAGCTAC
 TCAGGAGACTGAGGCAGGAGAATGGCTTGACCCCGGAGGCGAGGTTACAGTGAGCCAAG
 ATCATACCACTGCACTCCAGCCTGNGTGACAGAGCGGAGACTCCGTCTTTAANNAACAAA
 CANNACAACCAANACACCAACTCCTCTTACTGACCATTTTCAAGCTTACTTTATTT
 GNCTAGTGGGATTCATTTCTTCTGAAAATTATTGNNTATTGGCATGTGACCCTTGACT
 GATGGCTCCATTAGCATTGTTTTCTTTTGGATCCCTAATGAAAATAATTCTGTTAG
 GGATTTCAAAAAGAATAGGCAAAGCCACCTAATTTATCCTCCACGAAGAAGAAGCAAA
 CAGCCAGAAGGGCCTTTACTTGGCCTTGGCTAGTAAAAAAAATGGNGGATGTGGTAA
 GAAAAACCAATGTAGGCCAAAAGTCCAATGTGAAGAAAAACCATGACAC

Restriction Sites:

NotI-NotI

ACCN:

NM_016946

Insert Size:

3700 bp

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](#)

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_016946.3](#), [NP_058642.1](#)

RefSeq Size: 3660 bp

RefSeq ORF: 900 bp

Locus ID: 50848

UniProt ID: [Q9Y624](#)

Cytogenetics: 1q23.3

Domains: ig, IGv, IGc2, IG

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Epithelial cell signaling in Helicobacter pylori infection, Leukocyte transendothelial migration, Tight junction

Gene Summary:

Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. The protein encoded by this immunoglobulin superfamily gene member is an important regulator of tight junction assembly in epithelia. In addition, the encoded protein can act as (1) a receptor for reovirus, (2) a ligand for the integrin LFA1, involved in leukocyte transmigration, and (3) a platelet receptor. Multiple 5' alternatively spliced variants, encoding the same protein, have been identified but their biological validity has not been established. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of this gene. The extent of this transcript is supported by transcript alignments.