

## Product datasheet for SC306150

### Junctional Adhesion Molecule 1 (F11R) (NM\_144502) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Junctional Adhesion Molecule 1 (F11R) (NM_144502) Human Untagged Clone
Tag:	Tag Free
Symbol:	Junctional Adhesion Molecule 1
Synonyms:	JAM, KAT, JAM1, JAMA, JCAM, CD321, JAM-1, JAM-A, PAM-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_144502 edited  
 CTGTTCCCAGGATCCTTCGGCGGCTGTTGTGTCGGGAGCCTGATCGCGATGGGGACAAA  
 GGCGCAAGTCGAGAGGAACTGTTGTGCCTCTTCATATTGGCGATCCTTCCTGAGAATAA  
 TCCTGTGAAGTTGCTGTGCTACTCGGGCTTTTCTTCTCCCGTGCAGCTTCCTATGA  
 GGACCGGGTGACCTTCTTGCCTGCTGATCACCCTCAAGTCCGTGACACGGGAAGACAC  
 TGGGACATACTTGTATGGTCTCTGAGGAAGGCGCAACAGCTATGGGAGGTCAAGGT  
 CAAGCTCATCGTCTTGTGCTCCCAAGCCTACAGTTAACATCCCCTCCTCTGCCAC  
 CATTGGGAACCGGGCAGTGTGACATGCTCAGAACAAGATGGTCCACCTTCTGAATA  
 CACCTGGTCAAAGATGGGATAGTATGCCTACGAATCCCAAAAGCACCCGTGCCTTCAG  
 CAACTCTTCTATGCTGAATCCACAACAGGAGAGCTGGTCTTTGATCCCCTGTCAGC  
 CTCTGATACTGGAGAATACAGCTGTGAGGCACGGAATGGGTATGGGACACCCATGACTTC  
 AAATGCTGTGCGCATGGAAGCTGTGAGCGGAATGTGGGGTTCATCGTGGCAGCCGCTCT  
 TGTAAACCCTGATTCTCCTGGGAATCTTGGTTTTTGGCATCTGGTTTGCCTATAGCCGAGG  
 CCACTTTGACAGAAACAAAGAAAGGGACTTCGAGTAAGAAGGTGATTTACAGCCAGCCTAG  
 TGCCCCAAGTGAAGGAGAATTCAAACAGACCTCGTCATTCTGGTGTGAGCCTGGTCGGC  
 TCACCGCCTATCATCTGCATTTGCCTTACTCAGGTGCTACCGGACTCTGGCCCCTGATGT  
 CTGTAGTTTACAGGATGCCTATTTGTCTTCTACACCCACAGGGCCCCCTACTTCTTC  
 GGATGTGTTTTAATAATGTCAGCTATGTGCCCATCCTCCTTCATGCCCTCCCTCCCTT  
 TCCTACCACTGCTGAGTGGCCTGGAACCTGTTTAAAGTGTATTTCCCAATTTCTTTGAG  
 GGATCAGGAAGGAATCCTGGGTATGCCATTGACTTCCCTTCTAAGTAGACAGCAAAAATG  
 GCGGGGTGCGAGGAATCTGCACTCAACTGCCACCTGGCTGGCAGGGATCTTTGAATAG  
 GTATCTTGAGCTTGGTCTGGGCTCTTTCTTGTGACTGACGACCAGGGCCAGCTGTTT  
 TAGAGCGGAATTAGAGGCTAGAGCGGCTGAAATGGTTGTTTGGTGTGACTGGGGTCT  
 CTTCCATCTCTGGGGCCACTCTTCTGTCTTCCATGGGAAGTCCACTGGGATCCCT  
 CTGCCCTGCTCCTGAATACAAGCTGACTGACATTGACTGTGTCTGTGGAAAATGGGAG  
 CTCTTGTGTGGAGGCATAGTAAATTTTTCAGAGAACTTGAAGCCAAAAGGATTTAAAC  
 CGCTGCTCTAAAGAAAAGAAAAGTGGAGGCTGGGCGCAGTGGCTCACGCCTATAATCCCA



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GAGGCTGAGGCAGGCGGATCACCTGAGGTCAGGAGTTCAAGATCAGCCTGACCAACATGG  
 AGAAACCCCTACTAAAAATACAAAGTTAGCCAGGCATAGTGGTGCATGCCTGTAATCCCAG  
 CTGCTCAGGAGCCTGGCAACAAGAGCAAACTCCAGCTCAAAAAAAAAAAGAAAGAAAAG  
 AAAGCTGGAGCTGGTGGCTTAGGCCATCACCTTCCCTTGGCTGGAACTACTGGACAGAC  
 CCTTTTGAGATGTGCCTGTGGTGTGGAGATGTGTGTAGTGGTCTTAGCTCTTTGTTG  
 AGCTTGTGTGTGTTGTGTAGTCTTAGCTGTATGCTGAAATGGGCGTGTGTTGGAGGG  
 CTCTTAGCTCTTGGTGGAGATTGATTTCTATGTGTTTGTATCAGCTGAATGTTGCTGG  
 AAATAAAACCTTGGTTTGTCAAGGCTCTTTTTTGTGGGAAGTAAGTAGGGGAAAAGGTCT  
 TTGAGGGTTCCTAGGCTCCTTTGTACAACAGGAAAATGCCTCAAAGCCTTGCTTCCCAGC  
 AACCTGGGGCTGGTCCCAGTGCCTGGTCTGCCCTTCTGGTCTTATCTCAAGGCAG  
 AGCTTCTGAATTCAGGCCTTCAATCCAGAGCCCTTGTGGCCAGGCCTTCTTTGCTG  
 GAGGAAGGTACACAGGTGAAGCTGATGCTGTACTTGGGGATCTCCTTGGCCTGTTCCA  
 CCAAGTGAGAGAAGTACTTACTCTGTACCTCCTGTTCCAGCCAGGTGCATTAACAGACC  
 TCCCTACAGCTGTAGGAAGTACTGTCCCAGAGCTGAGGCAAGGGGATTTCTCAGGTCATT  
 TGGAGAACAAGTCTTTAGTAGTAGTTTAAAGTAGTAAGTCTACTGTATTTAGTGGGGT  
 GGAATTCAGAAGAAATTTGAAGACCAGATCATGGGTGGTCTGCATGTGAATGAACAGGAA  
 TGAGCCGGACAGCCTGGCTGTCATTGCTTTCTTCTCCCATTTGGACCTTCTCTGCC  
 TTACATTTTTGTTTCTCCATCTACCACCATCCACCAGTCTATTTATTAAGTCTAGCAAGAG  
 GACAAGTAAAGGGCCCTCTTGGCTTGATTTTGTCTTTCTTTCTGTGGAGGATATACTA  
 AGTGGCAGCTTTGCCCTATCTATTTGGAAATCCCTAACAGAAATGAGTTTTCTATTAAGG  
 ATCCAAAAAGAAAAACAAAATGCTAATGAAGCCATCAGTCAAGGGTCACATGCCAATAAA  
 CAATAAATTTCCAGAAGAAATGAAATCCAAGTCAAGTCAAGAAATGAGCTTATGAAAT  
 GGTTTCAGTAAAGATGAGTTTGTGTTTTTGTGTTTTTGTGTTTTTGTGTTTTTAAAGACG  
 GAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGTATGATCTTGGCTCACTGTAACT  
 CCGCCTCCCGGGTTCAAGCCATTCTCCTGCCTCAGTCTCCTGAGTAGCTGGGATTACGGG  
 TGCGTGCCACCATGCCTGGCTAGTTTTTGTGTTTTTGTGTTTTTGTGTTTTTGTGTTTTT  
 TGGTGGGCTGGTCTCGAACTCCTGACCTTGTATCCGCCTGCCTTGGCCTCCCAAAGTG  
 ATGGGATTACAGATGTGAGCCACCGTGCCTAGCCAAGGATGAGATTTTTAAAGTATGTTT  
 CAGTTCTGTGTCATGGTTGGAAGACAGAGTAGGAAGGATATGGAAAAGGTCATGGGGAAG  
 CAGAGGTGATTGCTGCTGTGAAATTTGAGGTGAATGGTTTCTTATTGTCTAGGCCACT  
 TGTGAAGAAATATGAGTCAGTTATTGCCAGCCTTGAATTTACTTCTCTAGCTTACATGG  
 ACCTTTTGAAGTGAAGAACACCTTGTCTGCATTCACTTTAAAATGTCAAAACTAATTTTT  
 ATAATAAATGTTTATTTTACATTGAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_144502 unedited  
 GTTGCATTTGTATACGATCATATAGGGCGGCCGAATTCGCACGAGGCTGTTCCCAGNA  
 GTCCTTCGGCGGCTGTTGTGTCGGGAGCCTGATCGCGATGGGACAAAGGCGCAAGTCA  
 GAGGAACTGTTGTGCCCTTTCATATTGGCGATCCTTCTGAGAATAATCCTGTGAAGTT  
 GTCCTGTGCCACTCGGGCTTTTCTTCTCCCGTGCAGCTTCTATGAGGACCGGGTAC  
 CTCTTGGCAACTGGTATCACCTTCAAGTCCGTGACACGGGAAGACACTGGGACATACAC  
 TTGTATGGTCTCTGAGGAAGGCGCAACAGCTATGGGAGGTCAAGGTCAAGCTCATCGT  
 GCTTGTGCCTCCATCCAAGCCTACAGTTAACATCCCCTCCTTGCACCATTTGGGAACCG  
 GGCAGTGTGACATGCTCAGAACAAGATGGTCCCCACCTTCTGAATACACCTGGTTCAA  
 AGATGGGATAGTATGCCTACGAATCCCAAAAGCACCCGTGCCTCAACAACCTTCTCCTA  
 TGTCTGAATCCACAACAGGAGAGCTGGTCTTTGATCCCCTGTGAGCCTCTGATACTGG  
 AGAATACAGCTGTGAGGCACGGAATGGGTATGGGACACCCTTACTTTCAATGCTGTGCG  
 CATTGGAACTGTGGAGCGGAATGTGGGGTTCATCGTGGCAGCCGTCCTTGAACCTGAT  
 TCTCCGGGAAATCTTGGTTTTTGGCATTGTTTTGCTTATTACCGAAGCCCTTTTGGC  
 GAACCAAGAAAGGACTTCGATTAAGGATTTAAAGCCCCCT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_144502

<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	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>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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="#">NM_144502.1</a></u> , <u><a href="#">NP_653085.1</a></u>
<b>RefSeq Size:</b>	3527 bp
<b>RefSeq ORF:</b>	780 bp
<b>Locus ID:</b>	50848
<b>Cytogenetics:</b>	1q23.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), Epithelial cell signaling in Helicobacter pylori infection, Leukocyte transendothelial migration, Tight junction
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) lacks two in-frame coding segments compared to variant 1, resulting in a shorter isoform (b) lacking two internal aa segments.</p>