

## Product datasheet for SC108217

### Junctional Adhesion Molecule 2 (JAM2) (NM\_021219) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Junctional Adhesion Molecule 2 (JAM2) (NM_021219) Human Untagged Clone
Tag:	Tag Free
Symbol:	Junctional Adhesion Molecule 2
Synonyms:	C21orf43; CD322; IBGC8; JAM-B; JAMB; PRO245; VE-JAM; VEJAM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108217 sequence for NM_021219 edited (data generated by NextGen Sequencing)

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ATGGCGAGGAGGAGCCGCCACCGCCTCCTCCTGCTGCTGCTGCGCTACCTGGTGGTCGCC
CTGGGCTATCATAAGGCCTATGGGTTTTCTGCCCAAAAGACCAACAAGTAGTCACAGCA
GTAGAGTACCAAGAGGCTATTTTAGCCTGCAAAACCCCAAGAAGACTGTTTCCTCCAGA
TTAGAGTGAAGAACTGGGTCGGAGTGTCTCCTTTGTCTACTATCAACAGACTCTTCAA
GGTGATTTAAAAATCGAGCTGAGATGATAGATTTCAATATCCGGATCAAAAATGTGACA
AGAAGTGATGCGGGAAATATCGTTGTGAAGTTAGTGCCCATCTGAGCAAGGCCAAAAC
CTGGAAGAGGATACAGTCACTCTGGAAGTATTAGTGGCTCCAGCAGTCCATCATGTGAA
GTACCCTCTTCTGCTCTGAGTGGAACTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGG
AATCCAGCTCCTGAATACACATGGTTTAAGGATGGCATCCGTTTGCTAGAAAATCCCAGA
CTTGGCTCCCAAAGCACCAACAGCTCATACACAATGAATACAAAACCTGGAAGTCTGCAA
TTAATACTGTTTCCAACTGGACACTGGAGAATATTCCTGTGAAGCCCGCAATTCTGTT
GGATATCGCAGGTGTCCTGGGAAACGAATGCAAGTAGATGATCTCAACATAAGTGGCATC
ATAGCAGCCGTAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTGGTGTATGCTAT
GCTCAGAGGAAAGGCTACTTTTCAAAGAAACCTCCTCCAGAAGAGTAATCTTCATCT
AAAGCCACGACAATGAGTGAAAATGATTTCAAGCACACAAAATCCTTTATAATTTAA

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Clone variation with respect to NM\_021219.2



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021219 unedited  
 GTTCAAATTTGTATACGACTCCTATAGGGCGGCCGGAATCGGCACGAGGCGTCCCTCCT  
 CTTCTCCCTCCCGACTCTCTGCTCCTTTCCCGCCCCANAAGTTCAAGGGCCCCCGGCC  
 TCCTGCGCTCCTGCCCGGGGACCCTCGACCTCCTCAGAGCAGCCGGCTGCCGCCCGGG  
 AAGATGGCAGGAGGAGCCGCCACCGCCTCCTCCTGCTGCTGCTGCGCTACCTGGTGGTC  
 GCCCTGGGCTATCATAAGGCCTATGGGTTTTCTGCCCCAAAAGACCAACAAGTAGTCACA  
 GCAGTAGAGTACCAAGAGGCTATTTTAGCCTGCAAAAACCCAAAGAAGACTGTTTCCTCC  
 AGATTAGAGTGGAAAGAACTGGGTCGGAGTGTCTCCTTTGTCTACTATCAACAGACTCTT  
 CAAGGTGATTTTTAAAAATCGAGCTGAGATGATAGATTTCAATATCCGGATCAAAAATGTG  
 ACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCCATCTGAGCAAGGCCAA  
 AACCTGGAAGAGGATACAGTCACTCTGGAAGTATTAGTGGCTCCAGCAGTTCCATCATGT  
 GAAGTACCCTCTCTGCTCTGAGTGGAAGTGTGGTAGAGCTACGATGTCAAGACAAAGAA  
 GGGAAATCCAGCTCCTGAATACACATGGTTAAGGATGGCATCCGTTTGTAGAAAATCCC  
 AGACTTGGCTCCCAAAGCACCAACAGCTCATAACAATGAATACANAACTGGAAGTCTG  
 CAATTTAATACTGGTTCCCAACTGGACTGGAGAATATTCCTGTGAAGCCCGCAATTCT  
 GTTGGATATCGCAGGTGTCTGGGAAAACGAATGCAGTAGATGATCTCAACATAAGTGGC  
 ATCATAGCAGCCCGTAGTAGTGTGGCCA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021219 unedited  
 GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTGCAA  
 GTTGATTGAAAAGCAATCAATTGGCCCAAACCTAGGTCAAACCTCCAATAAAAATAAA  
 TTAATCTAGTTACAACAGCAACAATAATTAACAACAAAACAAAGCTTGCTAATAAATTT  
 TAAAGCCCTAATCTTTACACAACACAATCACTGCAGGAAAATAAAGTCAAATGCTGTA  
 AAAATTACAATGGGATTTTACCAGTTGTTAGGGTTCAAGTTCCTCAAGTAAACACAAATG  
 CAAATACAAGTCTGGACACCAGGACCCACAGATACATATATATACTTTAATAGGAAAT  
 TAGGGCTCAATACTCTGCCCTTTGTGGGGGGGAAAACATTCTTTTATACAAGGATTTTTA  
 CCTAGCTATTACAATAGTTAAGGTAATGTACAATATATATTTGACACAGAGAGTGTAT  
 TAAATGTTGCGACTGCATAAAATGAATCCTCTAGCCTTTGATGTCTTAAAAAGAAGTTTT  
 ACAACTATTTAGGGAAGCTAAGGCACTACATATTTTCTCCCAATATGGATTGGGGTCA  
 TTTAAAACGAAAATGATCTTGTGTGATGACAGGGATGTCTGAAGAGGCGCTTTTCAG  
 AGTCATCTATCCTTTGGCATGCACATGGAAGAGGAAAACCTTTTCTCAAACCAAGATAT  
 TTTCAAACCAAAAATAGGGAACCTTAACCCGAATTTTTTAAAAACCTTGTAAAAACGGGT  
 TTCTTTTTGTCCTTACCACCTTGAGTTGGGAATTTATGCCCGGGGCCAAATCTGTGCGGG  
 GCCTGCGTGTCTTGAATAAAGCTTTAGGAAACAAAACGGAACCTGGCTGTTTGGGTGT  
 GGTGCGCTTTGGGCCACAGGGACACCAAAATTCCTTCCAGGGC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021219

**Insert Size:**

4000 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).

**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).

<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>	<a href="#">NM_021219.2</a> , <a href="#">NP_067042.1</a>
<b>RefSeq Size:</b>	1721 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	58494
<b>UniProt ID:</b>	<a href="#">P57087</a>
<b>Cytogenetics:</b>	21q21.3
<b>Domains:</b>	ig, IGc2, IG
<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>This gene belongs to the immunoglobulin superfamily, and the junctional adhesion molecule (JAM) family. The protein encoded by this gene is a type I membrane protein that is localized at the tight junctions of both epithelial and endothelial cells. It acts as an adhesive ligand for interacting with a variety of immune cell types, and may play a role in lymphocyte homing to secondary lymphoid organs. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2012]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript, and encodes isoform 1.</p>