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Product datasheet for SC310508

Junctional Adhesion Molecule C (JAM3) (NM_032801) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Junctional Adhesion Molecule C (JAM3) (NM_032801) Human Untagged Clone
Tag:	Tag Free
Symbol:	Junctional Adhesion Molecule C
Synonyms:	JAM-2; JAM-3; JAM-C; JAMC
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_032801 edited ATGGTGCCGGCTCGGCTGGGCCCGGCGGTCGCCATGGTAACTGGGGCGGGTCGCAGGGTC CTGGCAGGCTGGGCGCATGCGCGCGGGGACTACAAGCCGCGCCGCGCTGCCGCTGGCCCC TCAGCAACCCTCGACATGGCGCTGAGGCGGCCACCGCGACTCCGGCTCTGCGCTCGGCTG CCTGACTTCTTCCTGCTGCTGCTTTTCAGGGGCTGCCTGATAGGGGCTGTAAATCTCAAA TCCAGCAATCGAACCCCAGTGGTACAGGAATTTGAAAGTGTGGAACTGTCTTGCATCATT ACGGATTCGCAGACAAGTGACCCCAGGATCGAGTGGAAGAAAATTCAAGATGAACAAACC ACATATGTGTTTTTTGACAACAAAATTCAGGGAGACTTGGCGGGTCGTGCAGAAATACTG GGGAAGACATCCCTGAAGATCTGGAATGTGACACGGAGAGACTCAGCCCTTTATCGCTGT GAGGTCGTTGCTCGAAATGACCGCAAGGAAATTGATGAGATTGTGATCGAGTTAACTGTG CAAGTGAAGCCAGTGACCCCTGTCTGTAGAGTGCCGAAGGCTGTACCAGTAGGCAAGATG GCAACACTGCACTGCCAGGAGAGTGAGGGCCACCCCCGGCCTCACTACAGCTGGTATCGC AATGATGTACCACTGCCCACGGATTCCAGAGCCAATCCCAGATTTCGCAATTCTTCTTTC CACTTAAACTCTGAAACAGGCACTTTGGTGTTCACTGCTGTTCACAAGGACGACTCTGGG CAGTACTACTGCATTGCTTCCAATGACGCAGGCTCAGCCAGGTGTGAGGAGCAGGAGATG GAAGTCTATGACCTGAACATTGGCGGAATTATTGGGGGGGTTCTGGTTGTCCTTGCTGTA CTGGCCCTGATCACGTTGGGCATCTGCTGTGCATACAGACGTGGCTACTTCATCAACAAT AAACAGGATGGAGAAAGTTACAAGAACCCAGGGAAACCAGATGGAGTTAACTACATCCGC ACTGACGAGGAGGGCGACTTCAGACACAAGTCATCGTTTGTGATCTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032801 unedited
GTCAACATTTGTATACGACTCATATAGGCGGCCGCGNAATCGCCCTTCAGCTTCCTCTGT
CANATGGTGCCGGCTCGGCTGGGCCCGGCGGTCGCCATGGTAACTGGGGCGGGTCGCAGG
GTCCTGGCAGGCTGGGCGCATGCGCGCGGGGACTACAAGCCGCGCCGCGCTGCCGCTGGC
CCCTCAGCAACCCTCGACATGGCGCTGAGGCGGCCACCGCGACTCCGGCTCTGCGCTCGG
CTGCCTGACTTCTTCCTGCTGCTGCTTTTCAGGGGCTGCCTGATAGGGGCTGTAAATCTC
AAATCCAGCAATCGAACCCCAGTGGTACAGGAATTTGAAAGTGTGGAACTGTCTTGCATC
ATTACGGATTCGCAGACAAGTGACCCCAGGATCGAGTGGAAGAAAATTCAAGATGAACAA
ACCACATATGTGTTTTTTGACAACAAAATTCAGGGAGACTTGGCGGGTCGTGCAGAAATA
CTGGGGAAGACATCCCTGAAGATCTGGAATGTGACACGGAGAGACTCAGCCCTTTATCGC
TGTGAGGTCGTTGCTCGAAATGACCGCAAGGAAATTGATGAGATTGTGATCGAGTTAACT
GTGCAAGTGAAGCCAGTGACCCCTGTCTGTAGAGTGCCGAAGGCTGTACCAGTAGGCAAG
ATGGCAACACTGCACTGCCAGGAGAGTGAGGGCCACCCCCGGCCTCACTACAGCTGGTAT
CGCAATGATGTACCACTGCCCACGGATTCCAGAGCCAATCCCAGATTCGCAATTCTTTCT
TTCCATTAAACTCTGAAACAGGCACTTTGGTGTTCACTGCTGC

3' Read Nucleotide Sequence:

>Forward primer walk for NM_032801 unedited
NGCTCCGNATGAACGCAGGNAATTGNAGAANATGTGATCGAGTTAACTGTGCAAGTGAAG
CCAGTGACCCCTGTCTGTAGAGTGCCGAAGGCTGTACCAGTAGGCAAGATGGCAACACTG
CACTGCCAGGAGAGTGAGGGCCACCCCCGGCCTCACTACAGCTGGTATCGCAATGATGTA
CCACTGCCCACGGATTCCAGAGCCAATCCCAGATTTCGCAATTCTTCTTTCCACTTAAAC
TCTGAAACAGGCACTTTGGTGTTCACTGCTGTTCACAAGGACGACTCTGGGCAGTACTAC
TGCATTGCTTCCAATGACGCAGGCTCAGCCAGGTGTGAGGAGCAGGAGATGGAAGTCTAT
GACCTGAACATTGGCGGAATTATTGGGGGGGTTCTGGTTGTCCTTGCTGTACTGGCCCTG
ATCACGTTGGGCATCTGCTGTGCATACAGACGTGGCTACTTCATCAACAATAAACAGGAT
GGAGAAAGTTACAAGAACCCAGGGAAACCAGATGGAGTTAACTACATCCGCACTGACGAG
GAGGGCGACTTCAGACACAAGTCATCGTTTGTGATCTGAGACCCGCGGTGTGGCTGAGAG
CGCACAGAGCGCACTTGCACATACCTCTGCTAGAAACTCCTGTCAAGGCAGCGAGAGCTG
ATGCACNTCGACAGAGCTAGACACTCATTCAGAAGCTTTTCGTTTTGGCCAAAGTTGACC
ACTACTCTTTCTAACTCTACAAGCACATGAATAGAAGAATTTTTCCTCAGATGGACCCGT
AAATATAACCCACAGGAGCGAAACTGGGTGCGTTCACTGAGTTGGGTTCCTAACCGTTTC
TGGCCTGAATCCCGCATGAATATTAAGGTGGATCTAAAGAAGTTGCTCACGTAAACCCCC
GTCC

Restriction Sites: Please inquire

ACCN: NM_032801

Insert Size: 3700 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).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_032801.3, NP_116190.2
RefSeq Size:	3675 bp
RefSeq ORF:	1068 bp
Locus ID:	83700
UniProt ID:	Q9BX67
Cytogenetics:	11q25
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 localized in the tight junctions between high endothelial cells. Unlike other proteins in this family, the this protein is unable to adhere to leukocyte cell lines and only forms weak homotypic interactions. The encoded protein is a member of the junctional adhesion molecule protein family and acts as a receptor for another member of this family. A mutation in an intron of this gene is associated with hemorrhagic destruction of the brain, subependymal calcification, and congenital cataracts. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Apr 2011] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1).