

## Product datasheet for **RC233575**

### Junctional Adhesion Molecule C (JAM3) (NM\_001205329) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Junctional Adhesion Molecule C (JAM3) (NM_001205329) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Junctional Adhesion Molecule C
Synonyms:	JAM-2; JAM-3; JAM-C; JAMC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233575 representing NM_001205329 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTGAGGCGGCCACCGCGACTCCGGCTCTGCGCTCGGCTGCCTGACTTCTTCTGCTGCTGCTTT  
TCAGGGGCTGCCTGATAGGGGCTGTAATCTCAAATCCAGCAATCGAACCCAGTGGTACAGGAATTTGA  
AAGTGGAAGTGTCTTGCATCATTACGGATTCGAGACAAGTGACCCAGGATCGAGTGAAGAAAATT  
CAAGATGAACAAACCACATATGTGTTTTTTGACAACAAAATTCAGGTGAAGCCAGTGACCCCTGTCTGTA  
GAGTGCCGAAGGCTGTACCAAGTAGCAAGATGGCAACACTGCACTGCCAGGAGAGTGAGGGCCACCCCG  
GCCTCACTACAGCTGGTATCGCAATGATGTACCACTGCCACGGATTCAGAGCCAATCCAGATTCGC  
AATTCTTCTTTCACTTAACTCTGAAACAGGCACTTTGGTGTTCACTGCTGTTCAAGGACGACTCTG  
GGCAGTACTACTGCATTGCTTCCAATGACGCAGGCTCAGCCAGGTGTGAGGAGCAGGAGATGGAAGTCTA  
TGACCTGAACATTGGCGGAATTATTGGGGGGTTCTGGTTGTCCTTGCTGTACTGGCCCTGATCACGTTG  
GGCATCTGCTGTGCATACAGACGTGGCTACTTCATCAACAATAAACAGGATGGAGAAAAGTTACAAGAACC  
CAGGGAACAGATGGAGTTAACTACATCCGCACTGACGAGGAGGGCGACTTCAGACACAAGTCATCGTT  
TGTGATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233575 representing NM\_001205329  
 Red=Cloning site Green=Tags(s)

MALRRPRLRLCARLPDFLLLLFRGCLIGAVNLKSSNRTPVVQEFESVELSCIITDSQTSDPRIEWKKI  
 QDEQTTYVFFDNKIQVKPVPVCRVPAKVPVGMATLHCQESEGHPRPHYSWYRNDVPLPTDSRANPRFR  
 NSSFHLNSETGLVFTAVHKDDSGQYYCIASNDAGSARCEEQEMEYVDLNIIGGIIGGLVVLAVLALITL  
 GICCAYYRRGYFINNKQDGESYKNPGKPDGVNYIRTDEEGDFRHKSSFVI

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\_001205329

**ORF Size:** 777 bp

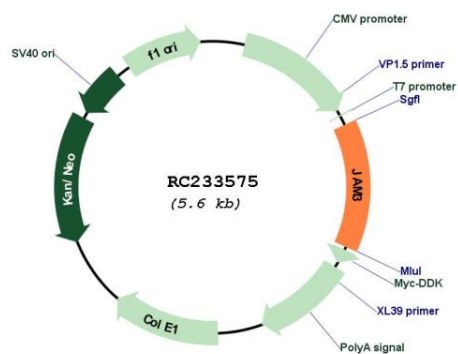
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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_001205329.1</a></u> , <u><a href="#">NP_001192258.1</a></u>
<b>RefSeq Size:</b>	3515 bp
<b>RefSeq ORF:</b>	780 bp
<b>Locus ID:</b>	83700
<b>UniProt ID:</b>	<u><a href="#">Q9BX67</a></u>
<b>Cytogenetics:</b>	11q25
<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>MW:</b>	29.7 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC233575