

Product datasheet for **RG216073**

Junctional Adhesion Molecule C (JAM3) (NM_032801) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Junctional Adhesion Molecule C (JAM3) (NM_032801) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Junctional Adhesion Molecule C |
| Synonyms: | JAM-2; JAM-3; JAM-C; JAMC |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG216073 representing NM_032801 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCCGGCTCGGCTGGGCCCGCGGTGCCATGGTAACTGGGGCGGGTCGCAGGGTCTGGCAGGCT
GGGCGCATGCGCGCGGGGACTACAAGCCGCGCCGCTGCCGCTGGCCCCCTCAGCAACCCCTGACATGGC
GCTGAGGGCGCCACCGGACTCCGGCTCTGCGCTCGGCTGCCTGACTTCTCCTGCTGCTGCTTTTCAGG
GGCTGCCTGATAGGGGCTGAAATCTCAAATCCAGCAATCGAACCCAGTGGTACAGGAATTTGAAAGTG
TGGAACTGTCTTGCATCATTACGGATTCGACAGACAAGTGACCCAGGATCGAGTGAAGAAAATTCAGA
TGAACAAACCACATATGTGTTTTTTGACAACAAAATTCAGGGAGACTTGGCGGGTCTGTCAGAAATCTG
GGGAAGACATCCCTGAAGATCTGGAATGTGACACGGAGAGACTCAGCCCTTTATCGCTGTGAGGTCGTTG
CTCGAAATGACCGCAAGGAAATGATGAGATTGTGATCGAGTTAACTGTGCAAGTGAAGCCAGTGACCCC
TGTCTGTAGAGTGCCGAAGGCTGTACCAGTAGGCAAGATGGCAACACTGCACTGCCAGGAGAGTGAGGGC
CACCCCGGCCTCACTACAGCTGGTATCGCAATGATGTACCACTGCCACGGATTCCAGAGCCAATCCCA
GATTTTCGCAATCTTCTTCCACTTAACTCTGAAACAGGCACCTTGGTGTCTACTGCTGTTTACAAGGA
CGACTCTGGGCAGTACTACTGCATTGCTTCCAATGACGCAGGCTCAGCCAGGTGTGAGGAGCAGGAGATG
GAAGTCTATGACCTGAACATTGGCGGAATATTGGGGGGTTCTGGTTGCTTGTACTGACTGGCCCTGA
TCACGTTGGGCATCTGCTGTGCATACAGACGTGGCTACTTCATCAACAATAAACAGGATGGAGAAAAGTTA
CAAGAACCAGGAAACCAGATGGAGTTAACTACATCCGCACTGACGAGGAGGGCGACTTCAGACACAAG
TCATCGTTTGTGATC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216073 representing NM_032801
 Red=Cloning site Green=Tags(s)

MVPARLGPVAMVTGAGRRVLGWAHARGDYKPRRAAAGPSATLDMALRRPPRLRLCARLPDFFLLLLFR
 GCLIGAVNLKSSNRTPVVQEFESVELSCIITDSQTSDPRIEWKKIQDEQTTYVFDNKIQGDLGRAEIL
 GKTSLKIWNVTRRDSALYRCEVVARNDRKEIDEIVIELTVQVKPVPVCRVPAKVPVGMATLHCQESG
 HPRPHYSWYRNDVPLPTDSRANPRFRNSSFHLNSETGTLVFTAVHKDDSGQYYCIASNDAGSARCEEQEM
 EYVDLNIIGGIIGVYLVLAVALALITLGICCAYRRGYFINNKQDGESYKNPGKPDGVNYIRTDEEGDFRHK
 SSFVI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032801

ORF Size: 1065 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).

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: 933 bp

Locus ID: 83700

UniProt ID: [Q9BX67](#)

Cytogenetics: 11q25

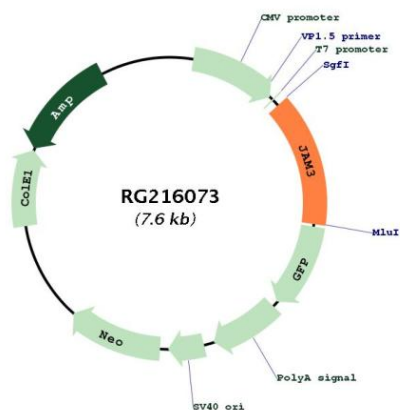
Domains: ig, IGv, IGc2, IG

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]

Product images:



Circular map for RG216073