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Product datasheet for RC216073

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:	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:

>RC216073 representing NM_032801
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCCGGCTCGGCTGGGCCCGGCGGTCGCCATGGTAACTGGGGCGGGTCGCAGGGTCCTGGCAGGCT
GGGCGCATGCGCGCGGGGACTACAAGCCGCGCCGCGCTGCCGCTGGCCCCTCAGCAACCCTCGACATGGC
GCTGAGGCGGCCACCGCGACTCCGGCTCTGCGCTCGGCTGCCTGACTTCTTCCTGCTGCTGCTTTTCAGG
GGCTGCCTGATAGGGGCTGTAAATCTCAAATCCAGCAATCGAACCCCAGTGGTACAGGAATTTGAAAGTG
TGGAACTGTCTTGCATCATTACGGATTCGCAGACAAGTGACCCCAGGATCGAGTGGAAGAAAATTCAAGA
TGAACAAACCACATATGTGTTTTTTGACAACAAAATTCAGGGAGACTTGGCGGGTCGTGCAGAAATACTG
GGGAAGACATCCCTGAAGATCTGGAATGTGACACGGAGAGACTCAGCCCTTTATCGCTGTGAGGTCGTTG
CTCGAAATGACCGCAAGGAAATTGATGAGATTGTGATCGAGTTAACTGTGCAAGTGAAGCCAGTGACCCC
TGTCTGTAGAGTGCCGAAGGCTGTACCAGTAGGCAAGATGGCAACACTGCACTGCCAGGAGAGTGAGGGC
CACCCCCGGCCTCACTACAGCTGGTATCGCAATGATGTACCACTGCCCACGGATTCCAGAGCCAATCCCA
GATTTCGCAATTCTTCTTTCCACTTAAACTCTGAAACAGGCACTTTGGTGTTCACTGCTGTTCACAAGGA
CGACTCTGGGCAGTACTACTGCATTGCTTCCAATGACGCAGGCTCAGCCAGGTGTGAGGAGCAGGAGATG
GAAGTCTATGACCTGAACATTGGCGGAATTATTGGGGGGGTTCTGGTTGTCCTTGCTGTACTGGCCCTGA
TCACGTTGGGCATCTGCTGTGCATACAGACGTGGCTACTTCATCAACAATAAACAGGATGGAGAAAGTTA
CAAGAACCCAGGGAAACCAGATGGAGTTAACTACATCCGCACTGACGAGGAGGGCGACTTCAGACACAAG
TCATCGTTTGTGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC216073 representing NM_032801
Red=Cloning site Green=Tags(s)

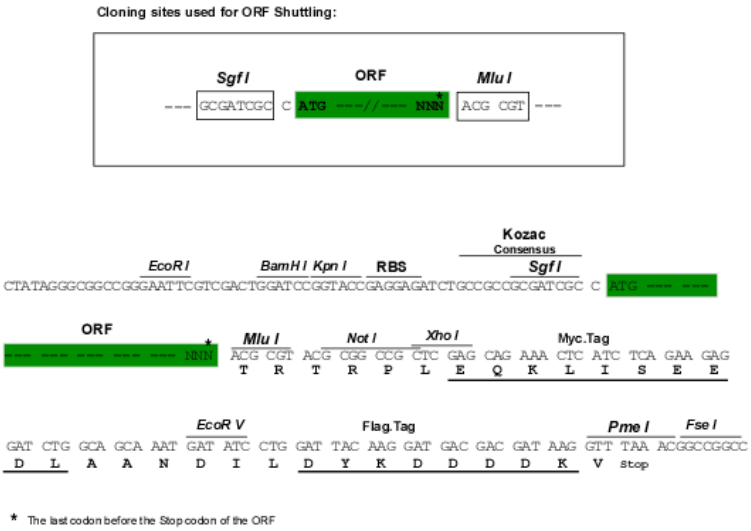
MVPARLGPAVAMVTGAGRRVLAGWAHARGDYKPRRAAAGPSATLDMALRRPPRLRLCARLPDFFLLLLFR
GCLIGAVNLKSSNRTPVVQEFESVELSCIITDSQTSDPRIEWKKIQDEQTTYVFFDNKIQGDLAGRAEIL
GKTSLKIWNVTRRDSALYRCEVVARNDRKEIDEIVIELTVQVKPVTPVCRVPKAVPVGKMATLHCQESEG
HPRPHYSWYRNDVPLPTDSRANPRFRNSSFHLNSETGTLVFTAVHKDDSGQYYCIASNDAGSARCEEQEM
EVYDLNIGGIIGGVLVVLAVLALITLGICCAYRRGYFINNKQDGESYKNPGKPDGVNYIRTDEEGDFRHK
SSFVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6116_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032801

ORF Size: 1065 bp

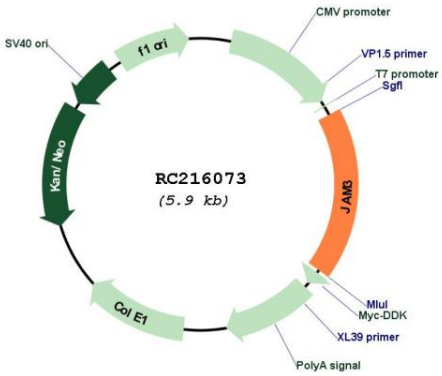
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially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

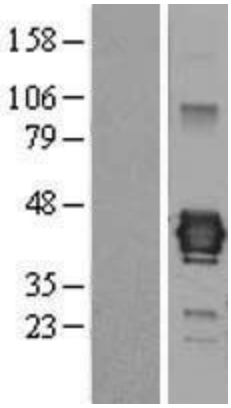
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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
MW:	36.5 kDa
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]

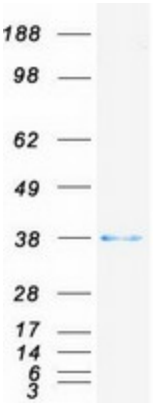
Product images:



Circular map for RC216073



Western blot validation of overexpression lysate (Cat# [LY403197]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC216073 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified JAM3 protein (Cat# [TP316073]). The protein was produced from HEK293T cells transfected with JAM3 cDNA clone (Cat# RC216073) using MegaTran 2.0 (Cat# [TT210002]).