

Product datasheet for RC233723

Junctional Adhesion Molecule 2 (JAM2) (NM_001270408) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Junctional Adhesion Molecule 2 (JAM2) (NM_001270408) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Junctional Adhesion Molecule 2
Synonyms:	C21orf43; CD322; IBGC8; JAM-B; JAMB; PRO245; VE-JAM; VEJAM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233723 representing NM_001270408 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGGAGGAGCCGCCACCGCCTCCTCTGCTGCTGCTGCGCTACCTGGTGGTCGCCCTGGGCTATC
ATAAGGCCTATGGGTTTTCTGCCCAAAGACCAACAAGTAGTCACAGCAGTAGAGTACCAAGAGGCTAT
TTTAGCCTGCAAAACCCAAAGAAGACTGTTTCTCCAGATTAGAGTGGAAAGAACTGGGTCGGAGTGTC
TCCTTTGTCTACTATCAACAGACTCTTCAAGTGATTTAAAAATCGAGCTGAGATGATAGATTTCAATA
TCCGGATCAAAAATGTGACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCATCTGAGCA
AGGCCAAAACCTGGAAGAGGATACAGTCACTCTGGAAATTAGTGGCTCCAGCAGTTCCATCATGTGAA
GTACCCTCTTCTGCTCTGAGTGGAACTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGGAATCCAGCTC
CTGAATACACATGGTTTAAGGATGGCATCCGTTTGCTAGAAAAATCCCAGACTTGGCTCCCAAAGCACAA
CAGCTCATACACAATGAATACAAAACCTGGAACCTGCAATTTAATACTGTTTCCAACTGGACTGGA
GAATATTCCTGTGAAGCCCGCAATTCGTTGGATATCGCAGGTGTCTGGGAAACGAATGCAAGTAGATG
ATCTCAACATAAGTGGCATCATAGCAGCCGTAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTG
TGATGCTATGCTCAGAGGAAAGGCTACTTTTCAAAGAAACCTCTTCCAGAAGAGTAATCTTTCATCT
AAAGCCACGACAATGAGTGAAAATGTGCAGTGGCTCACGCCTGTAAATCCAGCACCTTGGAAAGCCGCGG
CGGGCGGATCACGAGGTCAGGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233723 representing NM_001270408
 Red=Cloning site Green=Tags(s)

MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKDQVVTAVEYQEAILACKTPKKTVSSRLEWKKLGRSV
 SFVYYQTLQGDfKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQNL EEDVTLEVELVAPAVPSCE
 VPSSALSGTVVELRCQDKEGNPAPEYTFWKDGI RLL ENPRLGSQSTNSSYTMNTKTGTLQFNTVSKLDTG
 EYSCEARNSVGYRRC PGKRMQVDDL NISGIIA AVVVVALVISVCLGVCYAQRKGYFSKETS FQKSNSSS
 KATTMSENVQWLPVIPALWKA AAGGSRGQEF

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_001270408

ORF Size: 936 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_001270408.2](#)

RefSeq Size: 1747 bp

RefSeq ORF: 939 bp

Locus ID: 58494

UniProt ID: [P57087](#)

Cytogenetics: 21q21.3

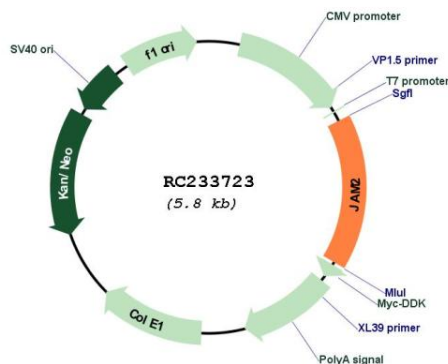
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Epithelial cell signaling in Helicobacter pylori infection, Leukocyte transendothelial migration, Tight junction

MW: 35 kDa

Gene Summary: 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]

Product images:



Circular map for RC233723