

Product datasheet for **RG204633**

Junctional Adhesion Molecule 2 (JAM2) (NM_021219) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Junctional Adhesion Molecule 2 (JAM2) (NM_021219) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Junctional Adhesion Molecule 2 |
| Synonyms: | C21orf43; CD322; IBGC8; JAM-B; JAMB; PRO245; VE-JAM; VEJAM |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG204633 representing NM_021219 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGGAGGAGCCGCCACCGCCTCCTCTGCTGCTGCTGCGCTACCTGGTGGTCGCCCTGGGCTATC
ATAAGGCCTATGGGTTTTCTGCCCAAAGACCAACAAGTAGTCACAGCAGTAGAGTACCAAGAGGCTAT
TTTAGCCTGCAAAACCCAAAGAAGACTGTTTCTCCAGATTAGAGTGGAAGAACTGGGTCGGAGTGTC
TCCTTTGTCTACTATCAACAGACTCTTCAAGTGATTTAAAAATCGAGCTGAGATGATAGATTTCAATA
TCCGGATCAAAAATGTGACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCATCTGAGCA
AGGCCAAAACCTGGAAGAGGATACAGTCACTCTGGAAATTAGTGGCTCCAGCAGTTCCATCATGTGAA
GTACCCCTTTCTGCTCTGAGTGGAACTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGGAATCCAGCTC
CTGAATACACATGGTTTAAGGATGGCATCCGTTTGCTAGAAAATCCCAGACTTGGCTCCCAAAGCACAA
CAGCTCATACACAATGAATACAAAACCTGGAACCTGCAATTTAATACTGTTTCCAACTGGACTGGA
GAATATTCCTGTGAAGCCCGCAATTCGTTGGATATCGCAGGTGTCTGGGAAACGAATGCAAGTAGATG
ATCTCAACATAAGTGGCATCATAGCAGCCGTAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTG
TGATGCTATGCTCAGAGGAAAGGCTACTTTTCAAAGAAACCTCTTCCAGAAGATAATCTTTCATCT
AAAGCCACGACAATGAGTGAAAATGATTTCAAGCACACAAAATCCTTTATAATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204633 representing NM_021219
 Red=Cloning site Green=Tags(s)

MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKDQVVTAVEYQEAILACKTPKKTVSSRLEWKKLGRSV
 SFVYYQTLQGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQNL EEDTVTLEVLVAPAVPSCE
 VPSSALSGTVVELRCQDKEGNPAPEYTWFKDGI RLLNPRLGSQSTNSSYTMNTKTGTLQFNTVSKLDTG
 EYSCEARN SVGYRRCPGKRMQVDDLNISGIIAAVVVVALVISVCGLGVCYAQRKGYFSKETS FQKSNSSS
 KATTMSEDFKHTKSFII

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021219

ORF Size: 894 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_021219.4](#)

RefSeq Size: 1721 bp

RefSeq ORF: 897 bp

Locus ID: 58494

UniProt ID: [P57087](#)

Cytogenetics: 21q21.3

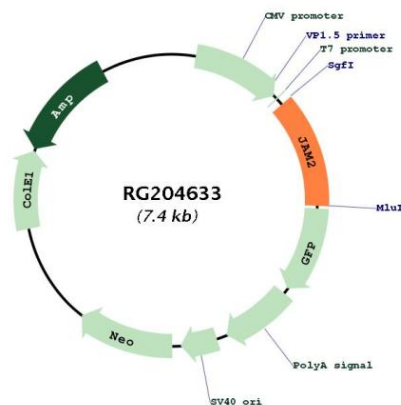
Domains: ig, IGc2, IG

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: 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 RG204633