

## Product datasheet for **RG233583**

### Junctional Adhesion Molecule 2 (JAM2) (NM\_001270407) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Junctional Adhesion Molecule 2 (JAM2) (NM_001270407) 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:	>RG233583 representing NM_001270407 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCGAGGAGGAGCCGCCACCGCCTCCTCTGCTGCTGCTGCGCTACCTGGTGGTCGCCCTGGGCTATC  
ATAAGGCCTATGGGTTTTCTGCCCAAAGACCAACAAGTAGTCACAGCAGTAGAGTACCAAGGTGATTT  
TAAAAATCGAGCTGAGATGATAGATTTCAATATCCGGATCAAAAATGTGACAAGAAGTATGCGGGGAAA  
TATCGTTGTGAAGTTAGTGCCCATCTGAGCAAGGCCAAAACCTGGAAGAGGATACAGTCACTCTGGAAG  
TATTAGTGGCTCCAGCAGTTCCATCATGTGAAGTACCCTCTTCTGCTCTGAGTGGAACTGTGGTAGAGCT  
ACGATGTCAAGACAAAGAAGGGAATCCAGCTCCTGAATACACATGGTTTAAAGGATGGCATCCGTTTGCTA  
GAAAATCCAGACTTGGCTCCCAAAGCACCAACAGCTCATAACAATGAATACAAAACTGGAACCTCTGC  
AATTTAATACTGTTTCCAACTGGACACTGGAGAATATTCCTGTGAAGCCCGCAATTCTGTTGGATATCG  
CAGGTGTCCTGGGAAACGAATGCAAGTAGATGATCTCAACATAAGTGGCATCATAGCAGCCGTAGTAGTT  
GTGGCCTTAGTGATTTCCGTTTGTGGCCTTGGTGTATGCTATGCTCAGAGGAAAGGCTACTTTTCAAAG  
AAACCTCTTCCAGAAGATAATTCTTCATCTAAAGCCACGACAATGAGTGAAAATGATTCAAGCACAC  
AAAATCCTTTATAATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233583 representing NM\_001270407  
 Red=Cloning site Green=Tags(s)

MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKDQVVTAVEYQGDFKNRAEMIDFNIRIKNVTRSDAGK  
 YRCEVSAPSEQQNLEEDTVTLEVLVAPAVPSCVPSALSGTVVELRCQDKEGNPAPEYTWFKDGIRLL  
 ENPRLGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNVSVYRRCPGKRMQVDDLNI SGIIAAVVV  
 VALVISVCGLVGYAQRKGYFSKETSFKSNSSSKATTMSENDKHTKSFII

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001270407

**ORF Size:** 786 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\\_001270407.1](#), [NP\\_001257336.1](#)

**RefSeq Size:** 4249 bp

**RefSeq ORF:** 789 bp

**Locus ID:** 58494

**UniProt ID:** [P57087](#)

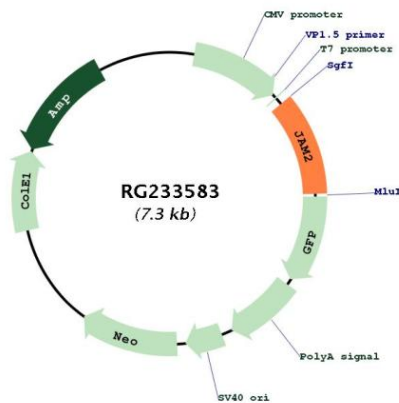
**Cytogenetics:** 21q21.3

**Protein Families:** Druggable Genome, Transmembrane

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

**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 RG233583