

Product datasheet for **MG205923**

Jaml (NM_001005421) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jaml (NM_001005421) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Jaml
Synonyms:	AMICA; Amica1; Crea7; Gm638
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205923 representing NM_001005421 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTGCCCTCTGAACTGATTGTGATTCCAGTAATCCTGGCCCTGTAGGTTATCCACAGGGCCTGC
CAGGCTTGACCGTTTCTCCCCTCAGCTGAGAGTGCATGTGGGTGAATCAGTCTTGATGGGATGTGTGT
CCAGCGCACAGAAGAGAAACACGTGGACAGAGTGGATTGGCTCTTCTCGAAAGATAAAGATGATGCGAGT
GAATATGTGCTGTTCTACTATTC AACCTTAGCGTGCCTACGGGGCGCTCCAGAACCGGTACATTTGG
TGGGGACACCTCCATAATGATGGTTCTCTCCTGCTCCAAGATGTTCAGAAGGCCGATGAGGGAATCTA
CACCTGTGAAATCCGCCTCAAAAATGAGAGCATGGTGATGAAAAAGCCCGTGAACTGTGGGTGCTACCA
GAGGAACCTAAAGATCTCAGAGTCCGAGTAGGTGATACAACCTCAGATGAGATGTTCTATCCAGAGCACAG
AAGAGAAACGGGTGACCAAAGTAACTGGATGTTTTCTCAGGGAGCCATACTGAGGAGGAGACAGTCTT
GAGCTATGACTCCAACATGCGTAGTGAAAAATTCAGAGCCTGGGCCGCTCCGCAACCGTGTAGACCTG
ACAGGTGACATCTCCGCAATGATGGCTCAATCAAACCTCAAACAGTGAAGGAGTCTGACCGAGGAATCT
ACACTTGACGATCTACGTGGGAAAGCTGGAGTCCAGGAAACCATTGTGCTGCATGTGGTCCAGGACGA
ATTTCAAAGGACAATTTCACTCACTCCTCAACTGATAAGGGTCCAGCAGGGCATCCTGAATGAAATCAG
CTGGTGATCATTGTGGGATCGTCTGTGCCACCTCCTGCTGCTCCGGTTTTGATATTAATTGTGAAGA
AAGCCAAGTGGAATAAGAGCTCAGTAAGTTCTATGGCTTCTGTGAAGAGCCTGGAGAACAAGAGAAGAT
TAATCCAGAGAAGCATATCTACTCCTCCATAACTACGTGGGAGACGACAGAGAGGAATAAAGTGGAGAG
TCAGAGGGCACCTACATGACCATGAATCCAGTTTGGCCTTCTCCCCAAAGCATCCAGTTTGGTCCGCT
CTTCAGTCAGATCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG205923 representing NM_001005421
 Red=Cloning site Green=Tags(s)

MLCLLKLIVIPVILAPVGYQPGLTVSSPQLRVHVGESVLMGCVVQRTEEKHVDRVDWLFSKDKDDAS
 EYVLFYYSNLSVPTGRFQNRSHLVGDTFHNDGSLLLQDVQKADEGIYTCEIRLNESMVMKKPVELWVLP
 EEPKDLRVRVGDTTQMRCISIQSTEEKRVTKVNWFMSSGSHTTEETVLSYDSNMRSKGFQSLGRFRNRVDL
 TGDISRNDGSIKLTQVKESDRGIYTCSEIYVGKLESRKTIVLHVVDQDEFQRTISPTPPTDKGQQGILNGNQ
 LVIIIVGIVCATFLLLPLVILIVKKAKWNKSSVSSMASVKSLNKEKINPEKHIIYSSITTWETTERGISGE
 SEGTYMTMPVWPSSPKASSLVRSVRSK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1694_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005421

ORF Size: 1137 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_001005421.1](#)

RefSeq Size: 1778 bp

RefSeq ORF: 1140 bp

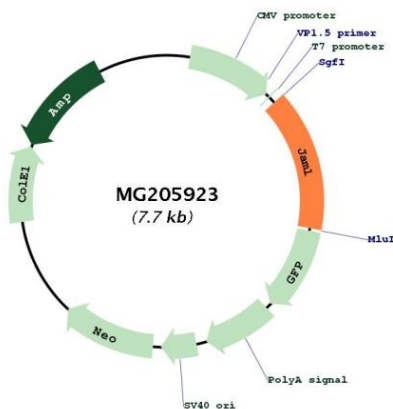
Locus ID: 270152

UniProt ID: [Q80UL9](#)

Cytogenetics: 9 A5.2

Gene Summary: Transmembrane protein of the plasma membrane of leukocytes that control their migration and activation through interaction with CXADR, a plasma membrane receptor found on adjacent epithelial and endothelial cells. The interaction between both receptors mediates the activation of gamma-delta T-cells, a subpopulation of T-cells residing in epithelia and involved in tissue homeostasis and repair. Upon epithelial CXADR-binding, JAML induces downstream cell signaling events in gamma-delta T-cells through PI3-kinase and MAP kinases. It results in proliferation and production of cytokines and growth factors by T-cells that in turn stimulate epithelial tissues repair. It also controls the transmigration of leukocytes within epithelial and endothelial tissues through adhesive interactions with epithelial and endothelial CXADR.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205923