

Product datasheet for MR205923

Jaml (NM_001005421) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jaml (NM_001005421) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Jaml
Synonyms:	AMICA; Amica1; Crea7; Gm638
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205923 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTGCCCTCTGAACTGATTGTGATTCCAGTAATCCTGGCCCTGTAGGTTATCCACAGGGCCTGC
CAGGCTTGACCGTTTCTCCCCTCAGCTGAGAGTGCATGTGGGTGAATCAGTCTTGATGGGATGTGTTGT
CCAGCGCACAGAAGAGAAACACGTGGACAGAGTGGATTGGCTCTTCTCGAAAGATAAAGATGATGCGAGT
GAATATGTGCTGTTCTACTATTC AACCTTAGCGTGCCTACGGGGCGCTCCAGAACCGGTACATTTGG
TGGGGACACCTCCATAATGATGGTTCTCTCCTGCTCCAAGATGTTCAGAAGGCCGATGAGGGAATCTA
CACCTGTGAAATCCGCCTCAAAAATGAGAGCATGGTGATGAAAAAGCCCGTGAACTGTGGGTGCTACCA
GAGGAACCTAAAGATCTCAGAGTCCGAGTAGGTGATACAACCTCAGATGAGATGTTCTATCCAGAGCACAG
AAGAGAAACGGGTGACCAAAGTAACTGGATGTTTTCTCAGGGAGCCATACTGAGGAGGAGACAGTCTT
GAGCTATGACTCCAACATGCGTAGTGAAAAATCCAGAGCCTGGGCCGCTTCCGCAACCGTGTAGACCTG
ACAGGTGACATCTCCGCAATGATGGCTCAATCAAACCTCAAACAGTGAAGGAGTCTGACCGAGGAATCT
ACACTTGACGATCTACGTGGGAAAGCTGGAGTCCAGGAAACCATTGTGCTGCATGTGGTCCAGGACGA
ATTTCAAAGGACAATTTCACTCACTCCTCAACTGATAAGGGTCCAGCAGGGCATCCTGAATGAAATCAG
CTGGTGATCATTGTGGGATCGTCTGTGCCACCTCCTGCTGCTCCGGTTTTGATATTAATTGTGAAGA
AAGCCAAGTGGAATAAGAGCTCAGTAAGTTCTATGGCTTCTGTGAAGAGCCTGGAGAACAAGAGAAGAT
TAATCCAGAGAAGCATATCTACTCCTCCATAACTACGTGGGAGACGACAGAGAGGAAT AAGTGGAGAG
TCAGAGGGCACCTACATGACCATGAATCCAGTTTGGCCTTCTTCCCCAAAGCATCCAGTTTGGTCCGCT
CTTCAGTCAGATCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205923 protein sequence
 Red=Cloning site Green=Tags(s)

MLCLLKLIVIPVILAPVGYQPQLPGLTVSSPQLRVHVGESVLMGCVVQRTEEKHVDRVDWLF SKDKDDAS
 EYVLFYYSNL SVPTGRFQNRSHLVGDTFHNDGSLLLQDVQKADEGIYTC EIRLKNESMVMKKPVELWVLP
 EEPKDLRVRVGD TTQMRCSIQSTEEKRVTKVNW MFSSGSHT EEE TVLSYDSNMRSKGFQSLGRFRNRVDL
 TGDISRNDGSIK LQTVKESDRGIYTC SIYV GKLESRKTIVLHV VQDEFQRTI SPTPPTDKGQQGILNGNQ
 LVIIIVGIVCATFLLL PVLILIVKKAKWNKSSVSSMASVKSL ENKEKINPEKHIIYSITTWETTERGISGE
 SEGTYMTMNPVWPSSPKASSLVRSSVRSK

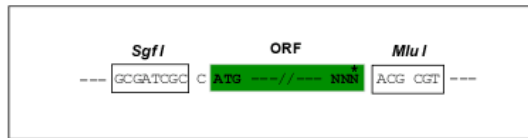
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001005421

ORF Size: 1140 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: 2472 bp

RefSeq ORF: 1140 bp

Locus ID: 270152

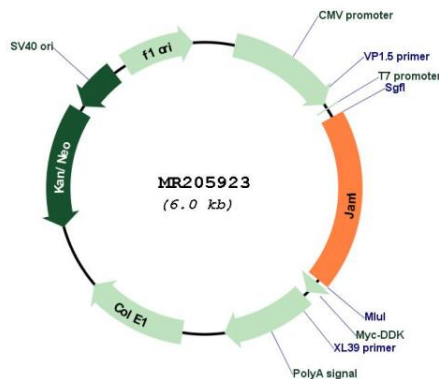
UniProt ID: [Q80UL9](#)

Cytogenetics: 9 A5.2

MW: 42.6 kDa

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 MR205923