

## Product datasheet for RC237682

### JAML (NM\_001286571) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JAML (NM_001286571) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	JAML
Synonyms:	AMICA; AMICA1; CREA7-1; CREA7-4; Gm638
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237682 representing NM_001286571 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGATGTGTTTTCCAGAGCACAGAAGACAAATGTATATCAAGATAGACTGGACTCTGTACCAGGAG  
AGCACGCCAAGGACGAATATGTGCTATACTATTACTCCAATCTCAGTGTGCCTATTGGGCGCTTCCAGAA  
CCGCGTACACTTGATGGGGGACATCTTATGCAATGATGGCTCTCTCCTGCTCCAAGATGTGCAAGAGGCT  
GACCAGGGAACCTATATCTGTGAAATCCGCCTCAAAGGGGAGAGCCAGGTGTTCAAGAAGCGGTGGTAC  
TGCATGTGCTTCCAGAGGAGCCAAAGAGCTCATGGTCCATGTGGTGGATTGATTCAGATGGGATGTGT  
TTTCCAGAGCACAGAAGTGAAACACGTGACCAAGGTAGAATGGATATTTTCAGGACGGCGCGCAAAGGAG  
GAGATTGTATTTTCGTTACTACCAAACTCAGGATGTCTGTGGAGTACTCCAGAGCTGGGGCCACTTCC  
AGAATCGTGTGAACCTGGTGGGGACATTTTCCGCAATGACGGTCCATCATGCTCAAGGAGTGAGGGA  
GTCAGATGGAGGAACTACACCTGCAGTATCCACCTAGGGAACCTGGTGTCAAGAAAACCATTTGTGCTG  
CATGTCAGCCCGAAGAGCCTCGAACACTGGTGACCCCGCAGCCCTGAGGCCTCTGGTCTTGGTGGTA  
ATCAGTTGGTGATCATTGTGGGAATTGTCTGTGCCACAATCCTGCTGCTCCCTGTCTGATATTGATCGT  
GAAGAAGACCTGTGAAAATAAGAGTTTCAGTGAATTCTACAGTCTTGGTGAAGAACACGAAGAAGACTAAT  
CCAGAGATAAAAAGAAAACCCCTGCCATTTTGAAGATGTGAAGGGGAGAAACACATTTACTCCCAATAA  
TTGTACGGGAGGTGATCGAGGAAGAAGAACCAAGTGAAAAATCAGAGGCCACCTACATGACCATGCACCC  
AGTTTGGCCTTCTCTGAGGTCAGATCGGAACAACCTCACTTGAAAAAAGTCAGGTGGGGGAATGCCAAAA  
ACACAGCAAGCCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237682 representing NM\_001286571  
Red=Cloning site Green=Tags(s)

MGCVFQSTEDKCIFKIDWTLSPGEHAKDEYVLYYSNLSVPIGRFQNRVHLMGDILCNDGSLLLQDVQEA  
 DQGTYICEIRLKGESQVFKKAVVLHVLPEEPKELMVHVGGLIQMGCVFQSTEVKHVTKVEWIFSGRRAKE  
 EIVFRYYHKLMSVEYSQSWGHFQNRVNLVGDIFRNDGSIMLQGVRESDDGNYTCSIHLGNLVFKKTIVL  
 HVSPEEPRTLVTPAALRPLVLGGNQLVIVGIVCATILLPLVILIVKKTGKSSVNSTVLVKNTKKTN  
 PEIKEPCHFERENCEGKHIYSPIIVREVIEEEEEPEKSEATYMTMHPVWPSLRSDRNSLEKKSGGGMPK  
 TQQAF

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\_001286571

**ORF Size:** 1065 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\\_001286571.2](#)

**RefSeq Size:** 2185 bp

**RefSeq ORF:** 1068 bp

**Locus ID:** 120425

**UniProt ID:** [Q86YT9](#)

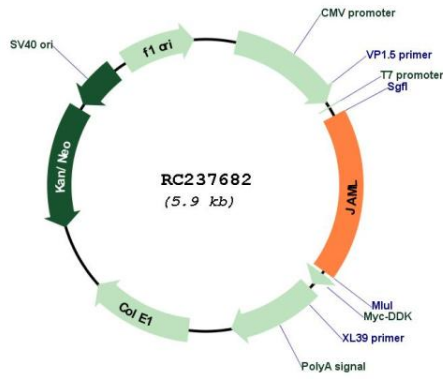
**Cytogenetics:** 11q23.3

**Protein Families:** Transmembrane

**MW:** 40.6 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 RC237682