

Product datasheet for **SC335575**

JAML (NM_001286570) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JAML (NM_001286570) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>SC335575 representing NM_001286570. Blue=Insert sequence Red=Cloning site Green=Tag(s)

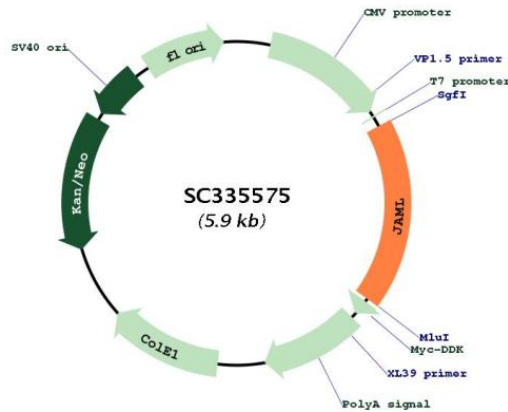
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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGATGTGTTTTCCAGAGCACAGAAGACAAATGTATATTCAAGATAGACTGGACTCTGTCAACAGGA
GAGCACGCCAAGGACGAATATGTGCTATACTATTACTCCAATCTCAGTGTGCCTATTGGGCGCTCCAG
AACCGGTACACTTGATGGGGACATCTTATGCAATGATGGCTCTCTCTGCTCCAAGATGTGCAAGAG
GCTGACCAGGGAACCTATATCTGTGAAATCCGCCTCAAAGGGGAGAGCCAGGTGTTCAAGAAGCGGTG
GTACTGCATGTGCTTCCAGAGGAGCCAAAGAGCTCATGGTCCATGTGGTGGATTGATTCAGATGGGA
TGTGTTTTCCAGAGCACAGAAGTAAACACGTGACCAAGGTAGAATGGATATTTTCAGGACGGCGCGCA
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CACTTCCAGAATCGTGTGAACCTGGTGGGGACATTTTCCGCAATGACGGTTCATCATGCTTCAAGGA
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ATGACCATGCACCCAGTTTGGCCTTCTCTGAGGTGAGTACGGAACAACTCACTTGAAAAAAGTCAGGT
GGGGGAATGCCAAAAACACAGCAAGCCTTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001286570

Insert Size: 1068 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001286570.1](#)

RefSeq Size: 1894 bp

RefSeq ORF: 1068 bp

Locus ID: 120425

UniProt ID: [Q86YT9](#)

Cytogenetics: 11q23.3

Protein Families: Transmembrane

MW: 40.1 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]

Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus than isoform 1. Variants 3 and 4 encode the same isoform (3).