

Product datasheet for **SC306558**

JAML (NM_153206) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JAML (NM_153206) 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:	>SC306558 representing NM_153206. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGTAAGTGGAGATTATTCCTTGGGCCTGAATGACTTGAATGTTTCCCGCCTGAGCTAACAGTCCAT
GTGGGTGATT CAGCTCTGATGGGATGTGTTTTCCAGAGCACAGAAGACAAATGTATATCCAAGATAGAC
TGGACTCTGT CACCAGGAGAGCACGCCAAGGACGAATATGTGCTATACTATTACTCCAATCTCAGTGTG
CCTATTGGGCGCTTCCAGAACCGGTACACTTGATGGGGACATCTTATGCAATGATGGCTCTCCTCG
CTCCAAGATGTGCAAGAGGCTGACCAGGGAACCTATATCTGTGAAATCCGCCTCAAAGGGGAGAGCCAG
GTGTTCAAGAAGGCGGTGACTGCATGTGCTTCCAGAGGAGCCAAAGAGCTCATGGTCCATGTGGGT
GGATTGATTCAGATGGGATGTGTTTTCCAGAGCACAGAAGTGAACACGTCACCAAGGTAGAATGGATA
TTTTCAGGACGGCGCGCAAAGGAGGAGATTGTATTTTCGTTACTACCACAACTCAGGATGTCTGTGGAG
TACTCCCAGAGCTGGGGCACTTCCAGAATCGTGTGAACCTGGTGGGGGACATTTTCCGCAATGACGGT
TCCATCATGCTTCAAGGAGTGAGGGAGTCAGATGGAGGAACTACACCTGCAGTATCCACCTAGGGAAC
CTGGTGTTC AAGAAAACCATTTGTGCTGCATGTCAGCCCGAAGAGCCTCGAACACTGGTGACCCCGCA
GCCCTGAGGCCTCTGGTCTTGGGTGGAATCAGTTGGTGATCATTGTGGGAATTGTCTGTGCCACAATC
CTGCTGCTCCCTGTTCTGATATTGATCGTGAAGAAGACCTGTGGAATAAGAGTTCAGTGAATTCTACA
GTCTTGGTGAAGAACACGAAGAAGACTAATCCAGAGATAAAAGAAAACCTGCCATTTTGAAGATGT
GAAGGGGAGAAAACATTTACTCCCAATAATTGTACGGGAGGTGATCGAGGAAGAAGAACCAAGTGAA
AAATCAGAGGCCACCTACATGACCATGCACCCAGTTTGGCCTTCTCTGAGGTCAGATCGGAACAACCTCA
CTTGAAAAAAGTCAGGTGGGGGAATGCCAAAAACACAGCAAGCCTTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:	□
ACCN:	NM_153206
Insert Size:	1155 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_153206.2
RefSeq Size:	2195 bp
RefSeq ORF:	1155 bp
Locus ID:	120425
UniProt ID:	Q86YT9
Cytogenetics:	11q23.3
Protein Families:	Transmembrane
MW:	43.1 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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.