

Product datasheet for **RG237682**

JAML (NM_001286571) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JAML (NM_001286571) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	JAML
Synonyms:	AMICA; AMICA1; CREA7-1; CREA7-4; Gm638
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237682 representing NM_001286571. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGATGTGTTTCCAGAGCACAGAAGACAAATGTATATTAAGATAGACTGGACTCTGTACCAGGA
GAGCACGCCAAGGACGAATATGTGCTATACTATTACTCCAATCTCAGTGTGCCTATTGGGCGCTCCAG
AACCGGTACACTTGATGGGGGACATCTTATGCAATGATGGCTCTCTCCTGCTCCAAGATGTGCAAGAG
GCTGACCAGGGAACCTATATCTGTGAAATCCGCCTCAAAGGGGAGAGCCAGGTGTTCAAGAAGCGGTG
GTACTGCATGTGCTTCCAGAGGAGCCAAAGAGCTCATGGTCCATGTGGTGGATTGATTCAGATGGGA
TGTGTTTTCCAGAGCACAGAAGTAAACACGTGACCAAGGTAGAATGGATATTTTCAGGACGGCGCGCA
AAGGAGGAGATTGATTTTCGTTACTACCACAACTCAGGATGTCTGTGGAGTACTCCAGAGCTGGGGC
CACTTCCAGAATCGTGTGAACCTGGTGGGGGACATTTTCCGCAATGACGGTTCATCATGCTTCAAGGA
GTGAGGGAGTCAGATGGAGGAACTACACCTGCAGTATCCACCTAGGGAACCTGGTGTTCAGAAAAACC
ATTGTGCTGCATGTCAGCCCGGAAGAGCCTCGAACACTGGTGACCCCGGCAGCCCTGAGGCTCTGGTC
TTGGGTGGTAATCAGTTGGTGATCATTGTGGGAATTGTCTGTGCCACAATCCTGTGCTCCCTGTCTG
ATATTGATCGTGAAGAAGACCTGTGAAATAAAGAGTTCAGTGAATTCTACAGTCTGGTGAAGAACAG
AAGAAGACTAATCCAGAGATAAAAGAAAAACCCTGCCATTTTGAAGATGTGAAGGGGAGAAACACATT
TACTCCCAATAATTGTACGGGAGGTGATCGAGGAAGAAGAACCAAGTAAAAATCAGAGGCCACCTAC
ATGACCATGCACCCAGTTTGGCCTTCTCTGAGGTGAGTTCGGAACAACTCACTTGAAAAAAGTCAGGT
GGGGGAATGCCAAAAACACAGCAAGCCTTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237682
 Blue=ORF Red=Cloning site Green=Tag(s)

MGCVFQSTEDKCIFKIDWTLSPGEHAKDEYVLYYNSLSVPIGRFQNRVHLMGDILCNDGSLLLQDVQE
 ADQGTIYICEIRLKGESQVFKKAVVLHVLPEEPKELMVHVGGLIQMGCVFQSTEVKHVTKVEWIFSGRRA
 KEEIVFRYYHKLKMSVEYSQSWGHFQNRVNLVGDIFRNDGSIMLQGVRESDDGNYTCSIHLGNLVFKKT
 IVLHVSPEEPRTLVTPAALRPLVLGGNQLVIVGIVCATILLPLVILIVKKTGKNSVNSTVLVKNT
 KKTNPETKEKPCHFERCEGEKHIYSPYIIIVREVIEEEEPSEKSEATYMTMHPVWPSLRSDRNSLEKKS
 GGMPKTQQAF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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).

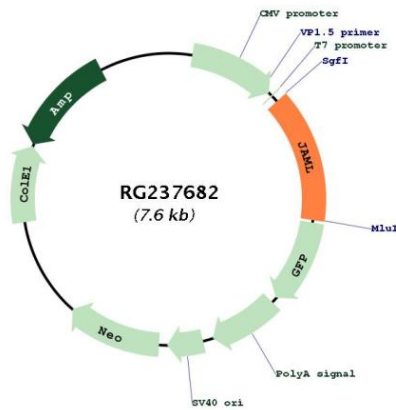
RefSeq: [NM_001286571.2](#)

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 RG237682