

## Product datasheet for **RG218818**

### JAML (NM\_001098526) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JAML (NM_001098526) 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:	>RG218818 representing NM_001098526 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTTGCCACTGAACTCATCTGCTGCCAGTGTTACTGGATTATTCCTTGGGCCTGAATGACTTGA  
ATGTTTCCCCGCCTGAGCTAACAGTCCATGTGGGTGATTCAGCTCTGATGGGATGTGTTTTCCAGAGCAC  
AGAAGACAAATGTATATCAAGATAGACTGGACTCTGTCACCAGGAGAGCAGCCAAGGACGAATATGTG  
CTATACTATTACTCCAATCTCAGTGTGCCTATTGGCGCTTCCAGAACCCTGACTTGTATGGGGACA  
TCTTATGCAATGATGGCTCTCTCCTGCTCCAAGATGTGCAAGAGGCTGACCAGGGAACCTATATCTGTGA  
AATCCGCCTCAAAGGGGAGGCCAGGTGTTCAAGAAGGCGGTGGTACTGCATGTGCTTCCAGAGGAGCCC  
AAAGAGCTCATGGTCCATGTGGGTGGATTGATTAGATGGGATGTGTTTTCCAGAGCACAGAAGTAAAC  
ACGTGACCAAGGTAGAATGGATATTTTCAGGACGGCGCGCAAAGGAGGAGATTGTATTTTCGTTACTACCA  
CAAACCTCAGGATGTCTGTGGAGTACTCCAGAGCTGGGGCCACTCCAGAATCGTGTGAACCTGGTGGG  
GACATTTTCCGCAATGACGGTCCATCATGCTTCAAGGAGTGAGGGAGTCAGATGGAGGAAACTACACCT  
GCAGTATCCACCTAGGGAACCTGGTGTCAAGAAAACCTTGTGCTGCATGTCAGCCCGGAAGAGCCTCG  
AACACTGGTGACCCCGCAGCCCTGAGGCTCTGGTCTTGGGTGGTAATCAGTTGGTGATCATTGTGGGA  
ATTGCTGTGCCACAATCCTGCTCCCTGTTCTGATATTGATCGTGAAGAAGACCTGTGGAAATAAGA  
GTTGAGTGAATTCTACAGTCTTGGTGAAGAACACGGAAGAAGACTAATCCAGAGATAAAAGAAAAACCTG  
CCATTTTAAAAGATGTGAAGGGGAGAAACACATTTACTCCCAATAATTGTACGGGAGGTGATCGAGGAA  
GAAGAACCAAGTAAAAATCAGAGGCCACCTACATGACCATGCACCCAGTTTGGCCTTCTCTGAGGTGAG  
ATCGGAACAACCTCACTTGAAAAAAGTCAGGTGGGGAAATGCCAAAAACACAGCAAGCCTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218818 representing NM\_001098526  
 Red=Cloning site Green=Tags(s)

MFCPLKLILLPVLLDYSLGLNDLNVSPPELTVHVGDSALMGCVFQSTEDKCIFKIDWTLSPGEHAKDEYV  
 LYYSNLSVPIGRFQNRVHLMGDILCNDGSLLLQDVQEQADQGTyceIRLKGESQVFKKAVVHLVLPPEP  
 KELMVHVGGLIQMGCVFQSTEVKHVTKVEWIFSGRRAKEEIVFRYYHKLMSVEYSQSWGHFQNRVNLVG  
 DIFRNDGSIMLQGVRESDGGNYTCSIHLGNLVFKKTIIVLHVSPPEPRTLVTAAALRPLVLGGNQLVIIVG  
 IVCATILLPVLILIVKKTGKNSVNSTVLVKNTKKTNPETKEKPCHEFERCEGEKHIYSPPIIVREVIEE  
 EEPSEKSEATYMTMHPVWPSLRSDRNSLEKKS GGGMPKTQQAF

TRTRPLE - GFP Tag - V

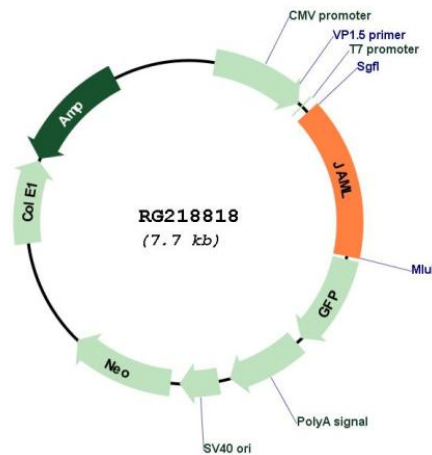
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001098526

<b>ORF Size:</b>	1182 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001098526.2</a>
<b>RefSeq Size:</b>	1957 bp
<b>RefSeq ORF:</b>	1185 bp
<b>Locus ID:</b>	120425
<b>UniProt ID:</b>	<a href="#">Q86YT9</a>
<b>Cytogenetics:</b>	11q23.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]