

Product datasheet for **RG219075**

JAML (NM_153206) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JAML (NM_153206) 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:	>RG219075 representing NM_153206 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTAAGTGGAGATTATTCCTTGGCCTGAATGACTTGAATGTTTCCCGCCTGAGCTAACAGTCCATG
TGGGTGATTGACTCTGATGGGATGTGTTTCCAGAGCACAGAAGACAAATGTATATTCAAGATAGACTG
GACTCTGTACCAGGAGAGCACGCCAAGGACGAATATGTGCTATACTATTACTCCAATCTCAGTGTGCT
ATTGGGCGCTTCCAGAACCGGTACACTTGTGGGGACAACCTATGCAATGATGGCTCTCTCCTGCTCC
AAGATGTGCAAGAGGCTGACCAGGGAACCTATATCTGTGAAATCCGCCTCAAAGGGGAGAGCCAGGTGTT
CAAGAAGCGGTGGTACTGCATGTGCTTCCAGAGGAGCCAAAGAGCTCATGGTCCATGTGGGTGGATTG
ATTCAGATGGGATGTGTTTTCCAGAGCACAGAAGTAAACACGTGACCAAGGTAGAATGGATATTTTCAG
GACGGCGCGCAAAGGAGGAGATTGTATTTCTTACTACCACAACTCAGGATGTCTGCGGAGTACTCCCA
GAGCTGGGGCCACTTCCAGAATCGTGTGAACCTGGTGGGGACATTTTCCGCAATGACGGTTCATCATG
CTTCAAGGAGTGAGGGAGTCAGATGGAGGAACTACACCTGCAGTATCCACCTAGGGAACCTGGTGTTC
AGAAAACCATTTGTGCTGCATGTCAGCCCGAAGAGCCTCGAACACTGGTGACCCCGCAGCCCTGAGGCC
TCTGGTCTTGGTGGTAATCAGTTGGTATCATTGTGGGAATTGTCTGTGCCACAATCCTGCTGCTCCCT
GTTCTGATATTGATCGTGAAGAAGACCTGTGAAATAAGAGTTCAGTGAATTCTACAGTCTTGGTGAAGA
ACACGAAGAAGACTAATCCAGAGATAAAAAGAAAACCTGCCATTTTGAAGATGTGAAGGGGAGAAACA
CATTTACTCCCCAATAATTGTACGGGAGGTGATCGAGGAAGAAGAACCAAGTAAAAATCAGAGGCCACC
TACATGACCATGCACCCAGTTTGGCCTTCTCTGAGGTCAGATCGGAACAACCTCACTTAAAAAAGTCAG
GTGGGGGAATGCCAAAAACAGCAAGCCTTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219075 representing NM_153206
 Red=Cloning site Green=Tags(s)

MVSGDYSLGLNDLNVSPPELTVHVGDLSALMGCVFQSTEDKCIFKIDWTLSPGEHAKDEYVLYYSNLVSV
 IGRFQNRVHLMGDNLNDGSLLLQDVQEQADQGTIYCEIRLKGESQVFKKAVVHLVLPPEPKELMVHVGG
 IQMGCVFQSTEVKHVTKVEWIFSGRRAKEEIVFRYYHKLMSAEYSQSWGHFQNRVNLVGDIFRNDGSIM
 LQGVRESDDGNYTCSIHLGNLVFKKTIIVLHVSPPEPRTLVTAAALRPLVLGGNQLVVIIVGIVCATILLLP
 VLILIVKKTGKNSVNSTVLVKNKTKNPEIKEKPCFHERCEGEKHIYSPIIIVREVIEEEEEPEKSEAT
 YMTMHPVWPSLRSDRNSLEKKSGGGMPKTQAF

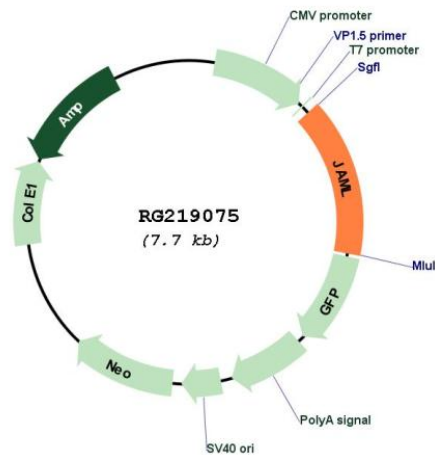
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_153206

ORF Size:	1152 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:	<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_153206.1 , NP_694938.1
RefSeq Size:	1959 bp
RefSeq ORF:	1155 bp
Locus ID:	120425
UniProt ID:	Q86YT9
Cytogenetics:	11q23.3
Protein Families:	Transmembrane
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]