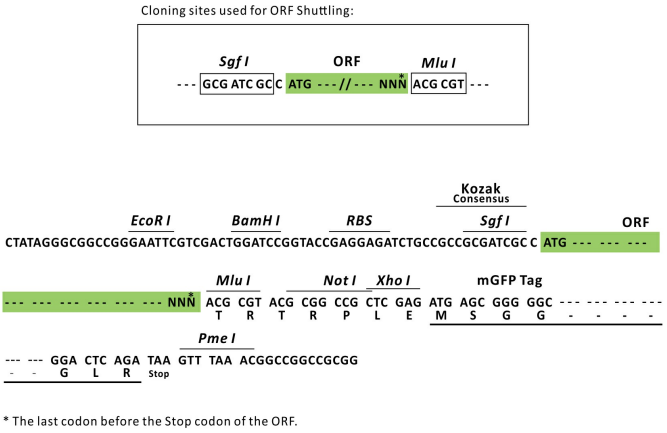
OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC213878L2

JAK1 (NM_002227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JAK1 (NM_002227) Human Tagged ORF Clone
Tag:	mGFP
Symbol:	JAK1
Synonyms:	AIIDE; JAK1A; JAK1B; JTK3
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
Cell Selection:	None
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC213878).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

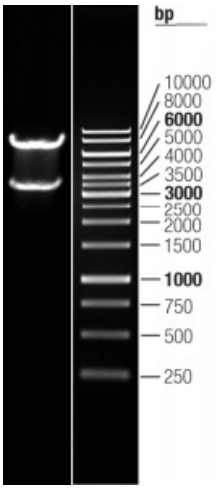


ACCN:	NM_002227
ORF Size:	3462 bp

View online »

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.
RefSeq:	NM_002227.2
RefSeq Size:	5053 bp
RefSeq ORF:	3465 bp
Locus ID:	3716
Domains:	pkinase, SH2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer
MW:	133.3 kDa
Gene Summary:	This gene encodes a membrane protein that is a member of a class of protein-tyrosine kinases (PTK) characterized by the presence of a second phosphotransferase-related domain immediately N-terminal to the PTK domain. The encoded kinase phosphorylates STAT proteins (signal transducers and activators of transcription) and plays a key role in interferon-alpha/beta, interferon-gamma, and cytokine signal transduction. This gene plays a crucial role in effecting the expression of genes that mediate inflammation, epithelial remodeling, and metastatic cancer progression. This gene is a key component of the interleukin-6 (IL-6)/JAK1/STAT3 immune and inflammation response and is a therapeutic target for alleviating cytokine storms. The kinase activity of this gene is directly inhibited by the suppressor of cytokine signalling 1 (SOCS1) protein. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2020]

Product images:



Double digestion of RC213878L2 using SgfI and MluI