

Product datasheet for **SC214031**

JAK1 (NM_002227) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	JAK1 (NM_002227) Human 3' UTR Clone
Symbol:	JAK1
Synonyms:	AIIDE; JAK1A; JAK1B; JTK3
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_002227
Insert Size:	1363 bp



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Insert Sequence: >SC214031 3'UTR clone of NM_002227
The sequence shown below is from the reference sequence of NM_002227. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
ATTGAAGGATTTGAAGCACTTTTAAAAATAAGAAGCATGAATAACATTTAAATTCACAGATTATCAAGT
CCTTCTCCTGCAACAAATGCCCAAGTCATTTTTAAAAATTTCTAATGAAAGAAGTTTGTGTTCTGTCC
AAAAAGTCACTGAACTACACTTCACTAGTACATATACATGTATAAGGCACACTGTAGTGCTTAATATGTGT
AAGGACTTCTCTTTAAATTTGGTACCAGTAACCTAGTGACACATAATGACAACCAAAATATTTGAAAG
CACTTAAGCACTCCTCCTGTGGAAAGAATATACCACCATTTTCATCTGGCTAGTTCACCATCACAACTG
CATTACCAAAAAGGGGATTTTTGAAAACGAGGAGTTGACCAAAAATAATATCTGAAGATGATTGCTTTTCC
CTGCTGCCAGCTGATCTGAAATGTTTTGCTGGCACATTAATCATAGATAAAGAAAGATTGATGGACTTA
GCCCTCAAATTTAGTATCTATACAGTACTAGACCATGCATTCTTAAAAATTAGATACCAGGTAGTAT
ATATTGTTTCTGTACAAAATGACTGTATTCTCTCACCAGTAGGACTTAACTTTGTTTCTCCAGTGGC
TTAGTCTCCTGTTCTTTGGGTGATCACTAGCACCCATTTTTGAGAAAGCTGGTCTACATGGGGGGATA
GCTGTGGAATAGATAATTTGCTGCATGTTAATTCTCAAGAACTAAGCCTGTGCCAGTGCTTTTCTAAGC
AGTATACCTTTAATCAGAACTCATTCCCAGAACCTGGATGCTATTACACATGCTTTTAAGAAACGTCAA
TGATATCCTTTTATAACTCTACCCTTTGGGGCAAGCTATTCCAGCACTGGTTTTGAATGCTGTATGC
AACCAGTCTGAATACCACATACGCTGCACTGTTCTTAGAGGGTTCCATACTTACCACCGATCTACAAG
GGTTGATCCCTGTTTTTACCATCAATCATCACCTGTGGTGCAACACTTGAAAGACCCGGCTAGAGGCA
CTATGGACTTCAGGATCCACTAGACAGTTTTTCAGTTTGGTGGAGGTAGCTGGGTAATCAAAAATGTTT
AGTCATTGATTCAATGTGAACGATTACGGTCTTTATGACCAAGAGTCTGAAAATCTTTTTGTTATGCTG
TTTAGTATTGTTTATGATTGTTACTTTTTACCTGTTGAGCCCAAATTCAGGATTGGTTCAGTGGCAGC
AATGAAGTTGCCATTTAAATTTGTTTATAGCCTACATCACCAAGGTCTCTGTGTCAAACCTGTGGCCAC
TCTATATGCACTTTGTTTACTCTTTATACAAAATAAATACTAAAGACTTTA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_002227.4](#)

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]

Locus ID:

3716

MW:

51.3