

## Product datasheet for **SC128145**

### STAT1 (NM\_139266) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STAT1 (NM_139266) Human Untagged Clone
Tag:	Tag Free
Symbol:	STAT1
Synonyms:	CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_139266, the custom clone sequence may differ by one or more nucleotides

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ATGTCTCAGTGGTACGAACCTTCAGCAGCTTGACTCAAATTCCTGGAGCAGGTTACCAGCTTTATGATG
ACAGTTTTCCCATGGAATCAGACAGTACCTGGCACAGTGGTTAGAAAAGCAAGACTGGGAGCACGCTGC
CAATGATGTTTCATTTGCCACCATCCGTTTTTCATGACCTCCTGTACACAGCTGGATGATCAATATAGTCGC
TTTTCTTTGGAGAATAACTTCTTGCTACAGCATAACATAAGGAAAAGCAAGCGTAATCTTCAGGATAATT
TTCAGGAAGACCCAATCCAGATGTCTATGATCATTACAGCTGTCTGAAGGAAGAAAGGAAAATTCTGGA
AAACGCCCAGAGATTTAATCAGGCTCAGTCGGGAATATTAGAGCACAGTGATGTTAGACAAAACAGAAA
GAGCTTGACAGTAAAGTCAGAAATGTGAAGGACAAGGTTATGTGTATAGAGCATGAAATCAAGAGCCTGG
AAGATTTACAAGATGAATATGACTTCAAATGCAAAACCTGCAGAACAGAGAACACGAGACCAATGGTGT
GGCAAAGAGTGATCAGAAACAAGAACAGCTGTTACTCAAGAAGATGTATTTAATGCTTGACAATAAGAGA
AAGGAAGTAGTTCACAAAATAATAGAGTTGCTGAATGTCAGTGAACCTACCCAGAATGCCCTGATTAATG
ATGAAGTGTGGAGTGGAAAGCGGAGACAGCAGAGCGCCTGTATTGGGGGCGCCCAATGCTTGCTTGGG
TCAGCTGCAGAACTGGTTCACTATAGTTGCGGAGAGTCTGCAGCAAGTTCGGCAGCAGCTTAAAAAGTTG
GAGGAATTGGAACAGAAAATACACCTACGAACATGACCCTATCACAAAAACAAAACAGTGTATGGGACC
GCACCTTCAGTCTTTCCAGCAGCTCATTAGAGCTCGTTTTGGTGGAAAGACAGCCCTGCATGCCAAC
GCACCCTCAGAGGCCGCTGGTCTTGAAGACAGGGTCCAGTTCAGTGTGAAGTTGAGACTGTTGGTGAAA
TTGCAAGAGCTGAATTATAATTTGAAAGTCAAAGTCTTATTTGATAAAGATGTGAATGAGAGAAATACAG
TAAAAGGATTTAGGAAGTTCAACATTTGGGCACGCACACAAAAGTGAACATGGAGGAGTCCACCAA
TGGCAGTCTGGCGGTGAATTTCCGACCTGCAATTTGAAAGAACAGAAAAATGCTGGCACCAGAACGAAT
GAGGGCTCTCATCGTTACTGAAGAGCTTCACTCCCTTAGTTTTGAAACCAATTGTGCCAGCCTGGTT
TGGTAATTGACCTCGAGACGACCTCTCTGCCCGTTGTGGTGATCTCCAAGTTCAGCCAGCTCCCGAGCGG
TTGGGCCTCCATCCTTTGGTACAACATGCTGGTGGCGGAACCCAGGAATCTGTCCTTCTTCTGACTCCA
CCATGTGCACGATGGGCTCAGCTTTCAGAAGTGTGAGTTGGCAGTTTTCTTCTGTACCAAAAAGAGGTC
TCAATGTGGACCAGTGAACATGTTGGGAGAGAAGCTTCTTGGTCTAACGCCAGCCCCGATGGTCTCAT
TCCGTGGACGAGGTTTTGTAAAGAAAATAAATGATAAAAAATTTCCCTTCTGGCTTTGGATTGAAAGC
ATCCTAGAACTCATTAAAAACACCTGCTCCCTCTGGAATGATGGGTGCATCATGGGCTTCATCAGCA
AGGAGCGAGAGCGTGCCTGTTGAAGGACCAGCAGCCGGGACCTTCTGCTGCGGTTCACTGAGAGCTC
CCGGAAGGGCCATCACATTCATGGGTGGAGCGGTCCAGAACGGAGGCGAACCTGACTTCCATGCG
GTTGAACCTACACGAAGAAAGAACTTTCTGCTGTTACTTTCCCTGACATCATTGCAATTACAAAGTCA
TGGCTGCTGAGAATATTCTGAGAATCCCTGAAGTATCTGTATCCAAATATTGACAAAGACCATGCCTT
TGGAAAGTATTACTCCAGGCCAAAGGAAGCACCAGAGCCAATGGAACCTGATGGCCCTAAAGGAAGTGA
TATATCAAGACTGAGTTGATTTCTGTGTCTGAAGTGAA
    
```

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2051\\_h02.zip](https://cdn.origene.com/chromatograms/ja2051_h02.zip)

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_139266

**Insert Size:** 4500 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:**

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\\_139266.1](#), [NP\\_644671.1](#)

**RefSeq Size:** 2762 bp

**RefSeq ORF:** 2139 bp

**Locus ID:** 6772

**UniProt ID:** [P42224](#)

**Cytogenetics:** 2q32.2

**Domains:** SH2, STAT

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Chemokine signaling pathway, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer, Toll-like receptor signaling pathway

**Gene Summary:**

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. The protein encoded by this gene can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. The protein plays an important role in immune responses to viral, fungal and mycobacterial pathogens. Mutations in this gene are associated with Immunodeficiency 31B, 31A, and 31C. [provided by RefSeq, Jun 2020]

Transcript Variant: This variant (beta) is different in its 3' coding region and UTR compared to variant alpha. It encodes a protein (isoform beta) with a shorter C-terminus, when compared to isoform alpha.