

## Product datasheet for **RC213878L2V**

### JAK1 (NM\_002227) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | JAK1 (NM_002227) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | JAK1   |
| Synonyms:                 | AIIDE; JAK1A; JAK1B; JTK3  |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-mGFP (PS100071)   |
| Tag:                      | mGFP   |
| ACCN:                     | NM_002227  |
| ORF Size:                 | 3462 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC213878).   |
| 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. <a href="#">More info</a> |
| 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:                   | <a href="#">NM_002227.2</a>  |
| RefSeq Size:              | 5053 bp  |
| RefSeq ORF:               | 3465 bp  |
| Locus ID:                 | 3716   |
| UniProt ID:               | <a href="#">P23458</a>   |
| Cytogenetics:             | 1p31.3   |
| Domains:                  | pkinese, SH2   |
| Protein Families:         | Druggable Genome, Protein Kinase   |



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**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]