

## Product datasheet for **RC212394L1V**

### STAT3 (NM\_213662) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | STAT3 (NM_213662) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | STAT3  |
| Synonyms:                 | ADMIO; ADMIO1; APRF; HIES  |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-Myc-DDK (PS100064)  |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_213662  |
| ORF Size:                 | 2166 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC212394).   |
| 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_213662.1</a>  |
| RefSeq Size:              | 4819 bp  |
| RefSeq ORF:               | 2169 bp  |
| Locus ID:                 | 6774   |
| UniProt ID:               | <a href="#">P40763</a>   |
| Cytogenetics:             | 17q21.2  |
| Protein Families:         | Druggable Genome, Transcription Factors  |



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|                          |  |
|--------------------------|--|
| <b>Protein Pathways:</b> | Acute myeloid leukemia, Adipocytokine signaling pathway, Chemokine signaling pathway, Jak-STAT signaling pathway, Pancreatic cancer, Pathways in cancer  |
| <b>MW:</b>               | 82.9 kDa   |
| <b>Gene Summary:</b>     | <p>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. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. This gene also plays a role in regulating host response to viral and bacterial infections. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. [provided by RefSeq, Aug 2020]</p> |