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# Product datasheet for RC212527L2V

## IGF1 (NM_000618) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | IGF1 (NM_000618) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | IGF1 |
| **Synonyms:** | IGF; IGF-I; IGFI; MGF |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-mGFP (PS100071) |
| **Tag:** | mGFP |
| **ACCN:** | NM_000618 |
| **ORF Size:** | 459 bp |
| **ORF Nucleotide Sequence:** | `The ORF insert of this clone is exactly the same as(RC212527).` |
| **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_000618.2 |
| **RefSeq Size:** | 7260 bp |
| **RefSeq ORF:** | 462 bp |
| **Locus ID:** | 3479 |
| **UniProt ID:** | P05019 |
| **Cytogenetics:** | 12q23.2 |
| **Domains:** | IlGF |
| **Protein Families:** | Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein |

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**Protein Pathways:** Dilated cardiomyopathy, Focal adhesion, Glioma, Hypertrophic cardiomyopathy (HCM), Long-term depression, Melanoma, mTOR signaling pathway, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer

**MW:** 17.03 kDa

**Gene Summary:** The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]