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# Product datasheet for RC213143L4V

## Factor VII (F7) (NM_019616) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Factor VII (F7) (NM_019616) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Factor VII |
| **Synonyms:** | SPCA |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_019616 |
| **ORF Size:** | 1332 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC213143). |
| **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_019616.1 |
| **RefSeq Size:** | 3078 bp |
| **RefSeq ORF:** | 1335 bp |
| **Locus ID:** | 2155 |
| **UniProt ID:** | P08709 |
| **Cytogenetics:** | 13q34 |
| **Domains:** | GLA, Tryp_SPc, EGF_CA, EGF, EGF |
| **Protein Families:** | Druggable Genome, Protease |

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**Protein Pathways:** Complement and coagulation cascades

**MW:** 49.3 kDa

**Gene Summary:** This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Defects in this gene can cause coagulopathy. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing to generate mature polypeptides. [provided by RefSeq, Aug 2015]