**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC216645L2V

## Factor I (CFI) (NM_000204) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | Factor I (CFI) (NM_000204) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | Factor I |
| **Synonyms:** | AHUS3; ARMD13; C3b-INA; C3BINA; FI; IF; KAF |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-mGFP (PS100071) |
| **Tag:** | mGFP |
| **ACCN:** | NM_000204 |
| **ORF Size:** | 1749 bp |
| **ORF Nucleotide Sequence:** | `The ORF insert of this clone is exactly the same as(RC216645).` |
| **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_000204.1 |
| **RefSeq Size:** | 1963 bp |
| **RefSeq ORF:** | 1752 bp |
| **Locus ID:** | 3426 |
| **UniProt ID:** | P05156 |
| **Cytogenetics:** | 4q25 |
| **Domains:** | SR, Tryp_SPc, ldl_recept_a, FIMAC |
| **Protein Families:** | Druggable Genome, Protease, Secreted Protein |

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**Protein Pathways:** Complement and coagulation cascades

**MW:** 65.72 kDa

**Gene Summary:** This gene encodes a serine proteinase that is essential for regulating the complement cascade. The encoded preproprotein is cleaved to produce both heavy and light chains, which are linked by disulfide bonds to form a heterodimeric glycoprotein. This heterodimer can cleave and inactivate the complement components C4b and C3b, and it prevents the assembly of the C3 and C5 convertase enzymes. Defects in this gene cause complement factor I deficiency, an autosomal recessive disease associated with a susceptibility to pyogenic infections. Mutations in this gene have been associated with a predisposition to atypical hemolytic uremic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immune deposits and age-related macular degeneration are other conditions associated with mutations of this gene. [provided by RefSeq, Dec 2015]