

Product datasheet for **RC200610L4V**

IFIT3 (NM_001549) Human Tagged ORF Clone Lentiviral Particle

Product data:

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|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | IFIT3 (NM_001549) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | IFIT3 |
| Synonyms: | CIG-49; cig41; GARG-49; IFI60; IFIT4; IRG2; ISG60; P60; RIG-G |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| Tag: | mGFP |
| ACCN: | NM_001549 |
| ORF Size: | 1470 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC200610). |
| 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_001549.2 |
| RefSeq Size: | 2578 bp |
| RefSeq ORF: | 1473 bp |
| Locus ID: | 3437 |
| UniProt ID: | O14879 |
| Cytogenetics: | 10q23.31 |
| Domains: | TPR |
| MW: | 56 kDa |



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Gene Summary:

IFN-induced antiviral protein which acts as an inhibitor of cellular as well as viral processes, cell migration, proliferation, signaling, and viral replication. Enhances MAVS-mediated host antiviral responses by serving as an adapter bridging TBK1 to MAVS which leads to the activation of TBK1 and phosphorylation of IRF3 and phosphorylated IRF3 translocates into nucleus to promote antiviral gene transcription. Exhibits an antiproliferative activity via the up-regulation of cell cycle negative regulators CDKN1A/p21 and CDKN1B/p27. Normally, CDKN1B/p27 turnover is regulated by COPS5, which binds CDKN1B/p27 in the nucleus and exports it to the cytoplasm for ubiquitin-dependent degradation. IFIT3 sequesters COPS5 in the cytoplasm, thereby increasing nuclear CDKN1B/p27 protein levels. Upregulates CDKN1A/p21 by downregulating MYC, a repressor of CDKN1A/p21. Can negatively regulate the apoptotic effects of IFIT2.[UniProtKB/Swiss-Prot Function]