

Product datasheet for RC200818L4V

OriGene Technologies, Inc.

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MDS028 (ITFG2) (NM_018463) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: MDS028 (ITFG2) (NM_018463) Human Tagged ORF Clone Lentiviral Particle

Symbol: MDS028

Synonyms: FGGAP1; MDS028

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_018463 **ORF Size:** 1341 bp

ORF Nucleotide

1511 56

Sequence:

The ORF insert of this clone is exactly the same as(RC200818).

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: <u>NM 018463.2</u>

 RefSeq Size:
 2379 bp

 RefSeq ORF:
 1344 bp

 Locus ID:
 55846

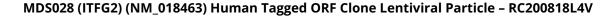
 UniProt ID:
 Q969R8

 Cytogenetics:
 12p13.33

Domains: FG-GAP

Protein Families: Druggable Genome





ORIGENE

MW: 49.3 kDa

Gene Summary:

As part of the KICSTOR complex functions in the amino acid-sensing branch of the TORC1 signaling pathway. Recruits, in an amino acid-independent manner, the GATOR1 complex to the lysosomal membranes and allows its interaction with GATOR2 and the RAG GTPases. Functions upstream of the RAG GTPases and is required to negatively regulate mTORC1 signaling in absence of amino acids. In absence of the KICSTOR complex mTORC1 is constitutively localized to the lysosome and activated. The KICSTOR complex is also probably involved in the regulation of mTORC1 by glucose.[UniProtKB/Swiss-Prot Function]