

Product datasheet for RC220700L2

IDE (NM_004969) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: IDE (NM_004969) Human Tagged Lenti ORF Clone

Tag: mGFP Symbol: IDE

Synonyms: INSULYSIN

Mammalian Cell None

Selection:

Vector: pLenti-C-mGFP (PS100071)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC220700).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





st The last codon before the Stop codon of the ORF.

ACCN: NM_004969

ORF Size: 3057 bp



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IDE (NM_004969) Human Tagged Lenti ORF Clone - RC220700L2

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.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: NM 004969.1, NP 004960.1

 RefSeq Size:
 3279 bp

 RefSeq ORF:
 3060 bp

 Locus ID:
 3416

 UniProt ID:
 P14735

Cytogenetics: 10q23.33

Domains: Peptidase_M16, Peptidase_M16_C

Protein Families: Druggable Genome, Protease

Protein Pathways: Alzheimer's disease

MW: 117.8 kDa

Gene Summary: This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby

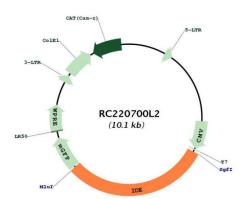
terminates insulins activity, as well as participating in intercellular peptide signalling by degrading diverse peptides such as glucagon, amylin, bradykinin, and kallidin. The preferential affinity of this enzyme for insulin results in insulin-mediated inhibition of the degradation of other peptides such as beta-amyloid. Deficiencies in this protein's function are associated with Alzheimer's disease and type 2 diabetes mellitus but mutations in this gene have not been shown to be causitive for these diseases. This protein localizes primarily to the

cytoplasm but in some cell types localizes to the extracellular space, cell membrane, peroxisome, and mitochondrion. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described but have not

been experimentally verified.[provided by RefSeq, Sep 2009]



Product images:



Circular map for RC220700L2