

Product datasheet for RC230666L3

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OriGene Technologies, Inc.

EGF (NM_001178131) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: EGF (NM_001178131) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: EGF

Synonyms: HOMG4; URG

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC230666).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



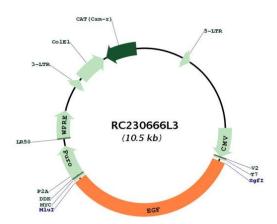


^{*} The last codon before the Stop codon of the ORF.





Plasmid Map:



ACCN: NM_001178131

ORF Size: 3495 bp

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 001178131.1

RefSeq ORF: 3498 bp **Locus ID:** 1950



EGF (NM_001178131) Human Tagged Lenti ORF Clone - RC230666L3

UniProt ID: P01133

Cytogenetics: 4q25

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS,

Induced pluripotent stem cells, Transmembrane

Protein Pathways: Bladder cancer, Cytokine-cytokine receptor interaction, Endocytosis, Endometrial cancer, ErbB

signaling pathway, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Regulation

of actin cytoskeleton

MW: 129.7 kDa

Gene Summary: This gene encodes a member of the epidermal growth factor superfamily. The encoded

preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this

gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been

associated with the growth and progression of certain cancers. Alternative splicing results in

multiple transcript variants, at least one of which encodes a preproprotein that is

proteolytically processed. [provided by RefSeq, Jan 2016]