

Product datasheet for RC206582L3

OriGene Technologies, Inc.

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Protein C (PROC) (NM_000312) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Protein C (PROC) (NM_000312) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Protein C

Synonyms: APC; PC; PROC1; THPH3; THPH4

Mammalian Cell Puromycin

Selection:

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

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

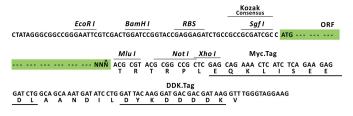
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC206582).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_000312

ORF Size: 1383 bp





Protein C (PROC) (NM_000312) Human Tagged Lenti ORF Clone - RC206582L3

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: <u>NM 000312.2</u>

 RefSeq Size:
 1790 bp

 RefSeq ORF:
 1386 bp

 Locus ID:
 5624

 UniProt ID:
 P04070

Cytogenetics: 2q14.3

Protein Families: Druggable Genome, Protease

Protein Pathways: Complement and coagulation cascades

MW: 52.1 kDa

Gene Summary: This gene encodes a vitamin K-dependent plasma glycoprotein. The encoded protein is

cleaved to its activated form by the thrombin-thrombomodulin complex. This activated form contains a serine protease domain and functions in degradation of the activated forms of

coagulation factors V and VIII. Mutations in this gene have been associated with

thrombophilia due to protein C deficiency, neonatal purpura fulminans, and recurrent

venous thrombosis.[provided by RefSeg, Dec 2009]