

Product datasheet for RC203027L4

OriGene Technologies, Inc.

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G protein coupled receptor 30 (GPER1) (NM_001039966) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: G protein coupled receptor 30 (GPER1) (NM_001039966) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: G protein coupled receptor 30

Synonyms: CEPR; CMKRL2; DRY12; FEG-1; GPCR-Br; GPER; GPR30; LERGU; LERGU2; LyGPR; mER

Mammalian Cell

Selection:

Puromycin

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

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

ORF Nucleotide

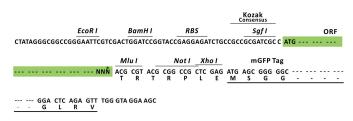
The ORF insert of this clone is exactly the same as(RC203027).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_001039966

ORF Size: 1125 bp





G protein coupled receptor 30 (GPER1) (NM_001039966) Human Tagged Lenti ORF Clone – RC203027L4

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 001039966.1</u>, <u>NP 001035055.1</u>

7p22.3

 RefSeq Size:
 2981 bp

 RefSeq ORF:
 1128 bp

 Locus ID:
 2852

 UniProt ID:
 Q99527

Protein Families: Druggable Genome, GPCR, Transmembrane

MW: 42.1 kDa

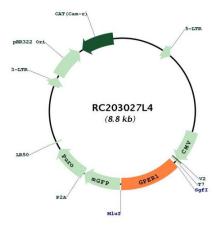
Cytogenetics:

Gene Summary: This gene encodes a multi-pass membrane protein that localizes to the endoplasmic

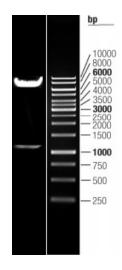
reticulum and a member of the G-protein coupled receptor 1 family. This receptor binds estrogen and activates multiple downstream signaling pathways, leading to stimulation of adenylate cyclase and an increase in cyclic AMP levels, while also promoting intracellular calcium mobilization and synthesis of phosphatidylinositol 3,4,5-trisphosphate in the nucleus. This protein therefore plays a role in the rapid nongenomic signaling events widely observed following stimulation of cells and tissues with estrogen. This receptor has been shown to play a role in diverse biological processes, including bone and nervous system development, metabolism, cognition, male fertility and uterine function. [provided by RefSeq, Aug 2017]



Product images:



Circular map for RC203027L4



Double digestion of RC203027L4 using Sgfl and Mlul $\,$