

Product datasheet for MG201620

Gcg (NM_008100) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Gcg (NM_008100) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Gcg

Synonyms: Gl; GLP; GLP-1; Glu; P; PPG

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG201620 representing NM_008100

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CCAGGGACTTCATCAACTGGCTGATTCAAACCAAGATCACTGACAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201620 representing NM_008100

Red=Cloning site Green=Tags(s)

MKTIYFVAGLLIMLVQGSWQHALQDTEENPRSFPASQTEAHEDPDEMNEDKRHSQGTFTSDYSKYLDSRR AQDFVQWLMNTKRNRNNIAKRHDEFERHAEGTFTSDVSSYLEGQAAKEFIAWLVKGRGRRDFPEEVAIAE

ELGRRHADGSFSDEMSTILDNLATRDFINWLIQTKITDKK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



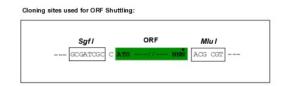
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

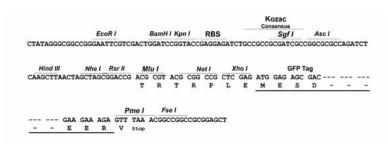
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: NM_008100

ORF Size: 540 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: <u>NM 008100.4</u>

RefSeq Size:1091 bpRefSeq ORF:543 bpLocus ID:14526

UniProt ID: P55095



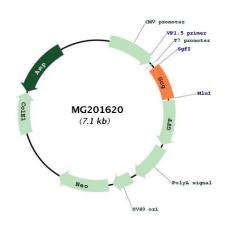
Cytogenetics:

2 35.85 cM

Gene Summary:

This gene encodes glucagon, a pancreatic hormone that counteracts the action of insulin in the bloodstream. The encoded protein is processed to generate glucagon and two other glucagon-like peptides, GLP1 and GLP2. Glucagon stimulates gluconeogenesis, glycogenolysis and lipolysis. GLP1 induces secretion of insulin, suppresses glucagon secretion and inhibits feeding. GLP2 induces intestinal absorption of glucose by stimulating the growth of intestinal cells and preventing apoptosis. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MG201620