

Product datasheet for **RG202717**

GLP1 (GCG) (NM_002054) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GLP1 (GCG) (NM_002054) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GLP1
Synonyms: GLP-1; GLP1; GLP2; GRPP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202717 representing NM_002054
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAGCATTACTTTGTGGCTGGATTATTTGTAATGCTGGTACAAGGCAGCTGGCAACGTTCCCTTC
AAGACACAGAGGAGAAATCCAGATCATTCTCAGCTTCCAGGCAGACCCACTCAGTGATCCTGATCAGAT
GAACGAGGACAAGCGCCATTACAGGGCACATTCACCAGTGACTACAGCAAGTATCTGGACTCCAGGCGT
GCCAAGATTTGTGCAGTGTTGATGAATACCAAGAGGAACAGGAATAACATTGCCAAACGTCACGATG
AATTTGAGAGACATGCTGAAGGGACCTTACCAGTGATGAAGTTCTTATTTGGAAGGCCAAGCTGCCAA
GGAATTCATTGCTTGGCTGGTGAAGGCCGAGGAAGGCGAGATTTCCAGAAAGAGGTCGCCATTGTTGAA
GAACTTGGCCGACAGATGCTGATGTTCTTCTCTGATGAGATGAACACCATTCTTGATAATCTTGCCG
CCAGGGACTTTATAAACTGGTTGATTACAGACAAAATCACTGACAGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202717 representing NM_002054
Red=Cloning site Green=Tags(s)

MKSIYFVAGLFVMLVQGSWQSLQDTEEKSRFSASQADPLSDPDQMNEKDRHSQGTFTSDYSKYLDSRR
AQDFVQWLMNTRNRNNIAKRHDEFERHAEGTFTSDVSSYLEGQAAKEFIAWLKGRGRDRFPPEVAIVE
ELGRRHADGFSDEMNTILDNLAARDFINWLIQTKITDRK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002054

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: [NM_002054.5](#)

RefSeq Size: 1128 bp

RefSeq ORF: 543 bp

Locus ID: 2641

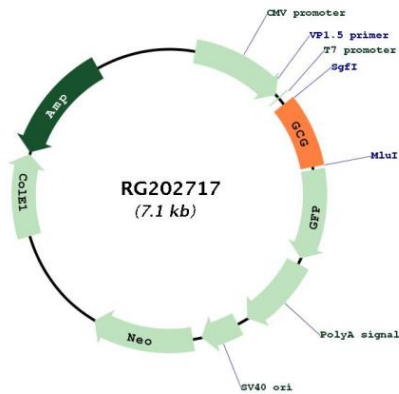
UniProt ID: [P01275](#)

Cytogenetics: 2q24.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Gene Summary: The protein encoded by this gene is actually a preproprotein that is cleaved into four distinct mature peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202717