

Product datasheet for **SC127874**

GLP1 (GCG) (NM_002054) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLP1 (GCG) (NM_002054) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLP1
Synonyms:	GLP-1; GLP1; GLP2; GRPP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127874 sequence for NM_002054 edited (data generated by NextGen Sequencing)

```
ATGAAAAGCATTACTTTGTGGCTGGATTATTTGTAATGCTGGTACAAGGCAGCTGGCAA  
CGTTCCTTCAAGACACAGAGGAGAAATCCAGATCATTCTCAGCTTCCCAGGCAGACCCA  
CTCAGTGATCCTGATCAGATGAACGAGGACAAGCGCCATTACAGGGCACATTCACCAAGT  
GACTACAGCAAGTATCTGGACTCCAGGCGTGCCCAAGATTTGTGCAGTGGTTGATGAAT  
ACCAAGAGGAACAGGAATAACATTGCCAAACGTCACGATGAATTTGAGAGACATGCTGAA  
GGGACCTTTACCAGTGATGTAAGTTCTTATTTGGAAGGCCAAGCTGCCAAGGAATTCATT  
GCTTGGCTGGTAAAAGGCCGAGGAAGGCGAGATTTCCAGAAGAGGTCGCCATTGTTGAA  
GAACTTGGCCGACAGACATGCTGATGGTTCTTTCTCTGATGAGATGAACACCATTCTTGAT  
AATCTTGGCCGAGGACTTTATAAACTGGTTGATTCAGACCAAATCACTGACAGGAAA  
TAA
```

Clone variation with respect to NM_002054.3



[View online »](#)

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002054 unedited ATAGGGCGGCCGCGAATTCAGATCTAAGAGGGCTTGCTCTCTCTTACCTGCTCTGTTCT ACAGCACACTACCAGAAGACAGCAGAAATGAAAAGCATTACTTTGTGGCTGGATTATTT GTAATGCTGGTACAAGGCAGCTGGCAACGTTCCCTTCAAGACACAGAGGAGAAATCCAGA TCATTCTCAGCTCCCAGGCAGACCCACTCAGTGATCCTGATCAGATGAACGAGGACAAG CGCCATTCACAGGGCACATTACCAGTGACTACAGCAAGTATCTGGACTCCAGGCGTGCC CAAGATTTGTGCAGTGGTTGATGAATACCAAGAGGAACAGGAATAACATTGCCAACGTC CACGATGAATTTGAGAGACATGCTGAAGGGACCTTACCAGTGATGTAAGTTCTTATTTG GAAGGCCAAGCTGCCAAGGAATTCATTGCTGGCTGGTAAAGGCCGAGGAAGGCCAAGA TTCCCAAGAAGAAGTCCCAATTGTGAAAACTTGCCGCGCAACAGGCGGAGGGTCTT CCTCGGAGAGAGAACACCATTCTTGATAATCTTGCCGCCAGGCACTTTATAAACTGTTT GATTACAGCCAAATTCAGTACAGGAAATAACTATCACTATTCAAGATCATCTTCACA ACATCACCTGCTAGCCN
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002054 unedited GGATGCAACTTCCAGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGA TCTGTTACAGAAACAGCTATGACCGCGCCGCAATCTAGAAGCAATGTGGCTCAGAATA CACCTCTAAATTTACAGGACTTAACATTTCAAACATCCACGTGGCTAGCAGGTGATGT TGTGAAGATGATCTTGAATAGTGATATAGTTATTTCTGTGATGATTTTGGTCTGAATC AACAGTTTATAAAGTCCCTGGCGCAAGATTATCAAGAATGGTGTTCATCTCATCAGAG AAAGAACCATCAGCATGTCTGCGGCCAAGTTCTTCAACAATGGCGACCTTCTGGGAAA TCTCGCCTTCTCGGCCTTTACCAGCCAAGCAATGAATTCCTTGGCAGCTTGGCCTTCC AAATAAGAACTTACATCACTGGTAAAGGTCCTTCAAGCATGTCTCAAATTCATCGTGA CGTTTGGCAATGTTATTCTGTTCTTGGTATTCAACCACTGCACAAAATCTTGG GCACGCCTGGAGTCCAGATACTTGTGTAGTCACTGGTGAATGTGCCCTGTGAATGGCGC TTGTCTCGTTTCTGATCAGGATCACTGAGTGGGTCTGCCTGGGAAGCTGAGAATGAT CTGGNATTTCTCTGTGTCTGAAGGNAACGTTGCCAGCTGCCTTGTACCAGCATTACA AATAATCCAGCCACAAAGTAAATGCTTTTCAATTTCTGCCTGCCTCCGGTATGTGCCGTAA AACAAAGCAGGTGAAAAGAGACAGACCTTAAATCGATTGCGCGGCCCTATATGGAGT CGATACCAATTCGACGGTTACTAACCAGCTCGCTAATAGACCTCCC
Restriction Sites:	Please inquire
ACCN:	NM_002054
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_002054.2 , NP_002045.1

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]