

Product datasheet for **SC120082**

Glucagon Receptor (GCGR) (NM_000160) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucagon Receptor (GCGR) (NM_000160) Human Untagged Clone
Tag:	Tag Free
Symbol:	Glucagon Receptor
Synonyms:	GGR; GL-R; MVAH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120082 sequence for NM_000160 edited (data generated by NextGen Sequencing)

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ATGCCCCCTGCCAGCCACAGCGACCCCTGCTGCTGTTGCTGCTGCTGCTGGCCTGCCAG
CCACAGTCCCCTCCGCTCAGGTGATGGACTTCTGTTGAGAAGTGAAGCTCTACGGT
GACCAGTGCACCACAACCTGAGCCTGCTGCCCCCTCCACGGAGCTGGTGTGCAACAGA
ACCTTCGACAAGTATTCTGCTGGCCGGACACCCCGCAATACCACGGCCAACATCTCC
TGCCCCCTGGTACCTGCCTTGGCACCACAAGTGCAACACCGCTTGGTGTCAAGAGATGC
GGCCCCGACGGTCAGTGGGTGCGTGGACCCCGGGGGCAGCCTTGGCGTGATGCCTCCAG
TGCCAGATGGATGGCAGGAGATTGAGGTCCAGAAGGAGGTGGCCAAGATGTACAGCAGC
TTCCAGGTGATGTACACAGTGGGTACAGCCTGTCCCTGGGGGCCCTGCTCCTCGCCTTG
GCCATCTGGGGGGCCTCAGCAAGCTGCACTGCACCCGCAATGCCATCCACGCGAATCTG
TTTGCCTCCTTCGTGCTGAAAGCCAGCTCCGTGCTGGTCAATTGATGGGTGCTCAGGACC
CGCTACAGCCAGAAAATTGGCGACGACCTCAGTGTGAGCAGCTGGCTCAGTGATGGAGCG
GTGGCTGGCTGCCGTGTGGCCGGGTGTTTCAATGCAATATGGCATCGTGGCCAACACTGC
TGCTGCTGGTGGAGGGCTGTACCTGCACAACCTGCTGGGCCTGGCCACCTCCCGGAG
AGGAGCTTCTTACGCCTCTACCTGGGCATCGGCTGGGGTGCCTCCATGCTGTTCTGTCGTC
CCCTGGGCAGTGGTCAAGTGTCTGTTCCGAGAACGTCCAGTGTGGACCAGCAATGACAAC
ATGGGCTTCTGGTGGATCCTGCGGTTCCCGTCTTCTGGCCATCCTGATCAACTTCTTC
ATCTTCGTCGCGCATCGTTCAGCTGCTCGTGGCCAAGCTGCGGGCACGGCAGATGCACCAC
ACAGACTACAAGTTCGGCTGGCCAAGTCCACGCTGACCTCATCCCTCTGCTGGGCGTC
CACGAAGTGGTCTTCGCCTTCGTGACGGACGAGCAGCCAGGGCACCCTGCGCTCCGCC
AAGCTCTTTCGACCTTCTCAGCTCCTTCCAGGGCCTGCTGGTGGCTGTCCTCTAC
TGCTTCTCAACAAGGAGGTGCAGTCCGAGCTGCGGGCGGCTTGGCACCCTGGCCGCTG
GGCAAAGTGTATGGGAGGAGCGGAACACAGCAACCACAGGGCCTCATCTTCGCCCGGC
CACGGCCCTCCAGCAAGGAGCTGCAGTTTGGGAGGGTGGTGGCAGCCAGGATTATCT
GCGGAGACCCCTTGGCTGGTGGCTCCCTAGATTGGCTGAGAGCCCTTCTGA
    
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Clone variation with respect to NM_000160.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_000160 unedited
CCAAGTCAGATTTGTATACGACTCATATAGGCGGCCTGCGAATCGGCACCAGCTGCCCTC
GGAGGAGCGTACACCCACCAGGACTGCATTGCCCCAGCTGTGCAGCCCTGCCAGATG
TGGGAGGCAGCTAGCTGCCAGAGGCATGCCCCCTGCCAGCCACAGCGACCCCTGCTGC
TGTTGCTGCTGCTGCTGGCCTGCCAGCCACAGTCCCCTCCGCTCAGGTGATGGACTTCC
TGTTTGAAGTGAAGTCTACGGTGACCAGTGTACCACAACCTGAGCCTGCTGCCCC
CTCCCACGGAGCTGGTGTGCAACAGAACCTTCGACAAGTATTCTGCTGGCCGGACACCC
CCGCCAATACCAGGCCAACATCTCCTGCCCTGGTACCTGCCTTGGCACCACAAGTGC
AACACCGCTTCGTGTTCAAGAGATGCGGGCCCGACGGTCAAGTGGTGGTGGACCCCGGG
GGCAGCCTTGGCGTGATGCCTCCAGTGCCAGATGGATGGCGAGGAGATTGAGGTCCAGA
AGGAGGTGGCCAAGATGTACAGCAGCTTCCAGGTGATGTACACAGTNGCTACAGCCTGT
CCCTGNGGGCCCTGCTCCTCGCCTTGGCCATCCTGNGGGCCCTCAGCAAGCTGCACTGCA
CCCGAATGCCATCCACGCGAATCTGTTTGCCTCCTTCGTGCTGAAAGCAGCTCCGTGCT
GGTCATTGATGGGCTGCTCANGACCTGCTACAGCCAGAAGAATGGCGACGACCTCAGTGT
CAGCACCTGGCTCANTGATGNACCGGTGGCTGGCTGCCGTGTGGCCCGGCTGCATGCC
ATATGGCATCGTGGCCACTACTGCNTGCTGTGGC
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000160 unedited CCAATTGTGTGGGACTCTTCTTATGTTGGGGGCACATTTNCCTGCCACATGGGCACGTGC TCGACATACGTGGGGACTGTCACGACGAGTTCACGGCACAGCCCCACTCCCGCCCTGGA CTCCTCTGCTCACCTCTGCACCAGGGACAAGGCAGGTGCAGGNGAGAGGAGGCCAATCT CGCAGACAGCCACTGGGGGTGGGGGTAGGTGGGGCTGCTGTTGGCTCCCCGCCCC CAGCCTCAGCTGGGCGTCCAGTTCTGGGTTGTCCAGCGACGCCCTCTGGGTGCCAGAGTC CAGCCCTAGCTGGGGTCCCAGCAGGGTTCAGAAGGGGCTCTCAGCCAATCTAGGGAGGCC ACCAGCCAAGGGGTCTCCGCAGATGAATCCTGGCTGCCACCACCCCTCCCAAAGTGCAG CTCCTTGCTGGGAGGGCGTGGCCGGGGAAGATGAGGCCCTGTGGTTGCTGGTGTCCG CTCCTCCCATAGCACTTTGCCAGGCGCCAGCGGTGCCAACGCCCGCAAATCCCACTG CACCTCCTTGTGAGGAAGCAGTATAGGACAGCCACCAACAAGCCCTGTACAGAGCTGAG GAAGAGGTCCAAGAAGAGCTTGGCTGAACGCAGGGTGCCTGGGCGTTCTACTTCGTTAC CAACGCTAAACCCCTTCTGGACTCCCAGCCAAAGCATGATGCCACACTGGACTTGCC TACTCGAATTTGTAATCTGTGCTGTGCCTCTGTCTGCCACACCTTGGCCACAACCCCTT TGACTCTGCTTACATAATCACAAATTTATCTCCAAGTCCCATAAACTGTGAACCTCT AGGAACCCCATCAACCCAGTCTACATACCGGGCCAGAACTGTACCATCTCAACACAACA TTGAC</p>
Restriction Sites:	Please inquire
ACCN:	NM_000160
Insert Size:	2300 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_000160.1 , NP_000151.1
RefSeq Size:	2034 bp

RefSeq ORF:	1434 bp
Locus ID:	2642
UniProt ID:	<u>P47871</u>
Cytogenetics:	17q25.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	The protein encoded by this gene is a glucagon receptor that is important in controlling blood glucose levels. Defects in this gene are a cause of non-insulin-dependent diabetes mellitus (NIDDM).[provided by RefSeq, Jan 2010]