

## Product datasheet for **SC124060**

### GLP1R (NM\_002062) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLP1R (NM_002062) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLP1R
Synonyms:	GLP-1; GLP-1-R; GLP-1R
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC124060 sequence for NM\_002062 edited (data generated by NextGen Sequencing)

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ATGGCCGGCGCCCCGGCCCCGCTGCGCCTTGGCGTGTGCTGCTCGGGATGGTGGGCAGG
GCCGGCCCCCGCCCCAGGGTGCCACTGTGTCCCTCTGGGAGACGGTGCAGAAATGGCGA
GAATACCGACGCCAGTCCAGCGCTCCCTGACTGAGGATCCACCTCCTGCCACAGACTTG
TTCTGCAACCGGACCTTCGATGAATACGCCTGCTGGCCAGATGGGGAGCCAGGCTCGTTC
GTGAATGTCAGCTGCCCCGGTACCTGCCCTGGGCCAGCAGTGTGCCCGAGGGCCACGTG
TACCGGTTCTGCACAGCTGAAGGCCTCTGGCTGCAAGGACAACCTCCAGCCTGCCCTGG
AGGGACTTGTTCGAGTGCAGAGGAGTCCAAGCGAGGGGAGAGAAGCTCCCCGGAGGAGCAG
CTCCTGTTCTCTACATCATCTACACGGTGGGCTACGCACTCTCCTTCTGCTCTGGTT
ATCGCCTCTGCGATCCTCCTCGGCTTCAGACACCTGCACTGCACCAGGAACCTACATCCAC
CTGAACCTGTTTGCATCCTTCATCTGCGAGCATTGTCCGTCTTCATCAAGGACGCGACC
CTGAAGTGGATGTATAGCACAGCCGCCAGCAGCACCAGTGGGATGGGCTCCTCTCTAC
CAGGACTCTCTGAGCTGCCGCTGGTGTCTGCTCATGCAGTACTGTGTGGCGGCAAT
TACTACTGGCTCTTGGTGGAGGGCGTGTACCTGTACACACTGCTGGCCTTCTCGTCTTC
TCTGAGCAATGGATCTTCAGGCTCTACGTGAGCATAGGCTGGGGTGTCCCTGCTGTTT
GTTGTCCCTGGGGCATTGTCAAGTACCTCTATGAGGACGAGGGCTGCTGGACCAGGAAC
TCCAACATGAACTACTGGCTCATTATCCGGCTGCCATTCTCTTTGGCATTGGGGTGAAC
TTCCTCATCTTTGTTTCGGGTCACTGTCATCGTGGTATCCAAACTGAAGGCCAATCTCATG
TGCAAGACAGACATCAATGCAGACTTGCCAAGTCCACGCTGACACTCATCCCCCTGCTG
GGGACTCATGAGGTCATCTTTGCCTTTGTGATGGACGAGCAGCCCGGGGGACCTTGC
TTCATCAAGCTTTTACAGAGCTCTCCTCACCTCCTTCCAGGGGCTGATGGTGGCCATA
TTATAAGCTTTGTCAACAATGAGGTCCAGTGGAAATTCGGAAGAGCTGGGAGCGCTGG
CGGCTTGAGCACTTGACATCCAGAGGGACAGCAGCATGAAGCCCTCAAGTGTCCACC
AGCAGCCTGAGCAGTGGAGCCACGGCGGCAGCAGCATGTACACAGCCACTTGCCAGGCC
TCCTGCAGCTGA
    
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Clone variation with respect to NM\_002062.3  
 399 a=>g;780 a=>c;947 c=>g

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002062 unedited

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GAGTTANGATTTGTAATACGACTTCACTATAGGGCGGCCGCGATTGCGCCCTTGATGGCCC
AGTCTGAACTCCCCGCCATGGCCGGCGCCCCCGCCCCGCTGCGCCTTGGCGTGTGCTG
CTCGGGATGGTGGGCAGGGCCGGCCCCCGCCCCAGGGTGCCACTGTGTCCCTCTGGGAG
ACGGTGCAGAAATGGCGAGAATACCGACGCCAGTCCAGCGCTCCCTGACTGAGGATCCA
CCTCCTGCCACAGACTTGTCTGCAACCGGACCTTCGATGAATACGCCTGCTGGCCAGAT
GGGGAGCCAGGCTCGTTCTGTAATGTGAGCTGCCCTGGTACCTGCCCTGGCCAGCAGT
GTGCCGAGGGCCACGTGTACCGTTCTGCACAGCTGAAGGCCTCTGGCTGCAGAAGGAC
AACTCCAGCCTGCCCTGGAGGACTTGTTCGAGTGCAGAGGAGTCCAAGCGAGGGGAGAGA
AGCTCCCCGGAGGAGCAGCTCCTGTTCTCTACATCATCTACACGGTGGGCTACGCACTC
TCCTTCTCTGCTCTGGTTATCGCCTCTGCGATCCTCCTCGGCTTCAGACACCTGCACTGC
ACCANGAACTACATCCACCTGAACCTGTTTGCATCCTTCATCCTGCGAGCATTGTCCGTC
TTCATCAAGGACGAGCCCTGAAGTGGATGTATAGCACAGCCGCCAGCAGCACCAGTGG
GATGGGCTCCTCTNNCTACCAGACTCTCTGAGCTGCCGCTGGTGTCTGCTCATGCAG
TACTGTGTGGCGCCAAATACTACTGGCTTGGTGGAGGGCGTGTACCTGTACCACTGC
TGGGCTTCTCGGTCTCTCTGAGCAATGGATCTTCAGGCTCTACGTGAGCATANGCTGGG
GGTGTTCCTGTC
    
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<b>3' Read Nucleotide Sequence:</b>	>Forward primer walk for NM_002062 unedited AAGTCAGCTGACATCACCCCTGCTGGGGACTCATGAGGTCATCTTTGCCTTTGTGATGGA CGAGCACGCCCCGGGGACCCCTGCGCTTCATCAAGCTGTTTACAGAGCTCTCCTTCACT CCTTCCAGGGGCTGATGGTGGCCATATTACTGCTTTGTCAACAATGAGGTCCAGCTGG AATTTTCGGAAGAGCTGGGAGCGCTGGCGGCTTGAGCACTGCACATCCAGAGGGACAGCA GCATGAAGCCCCCAAGTGTCCCACCAGCAGCCTGAGCAGTGGAGCCACGGCGGGCAGCA GCATGTACACAGCCACTTGCCAGGCCTCCTGACGCTGAGACTCCAGCGCCTGCCCTCCCT GGGGTCCTTGCTGCAAGGCTGGTGGCCAATCCAGGTGGGAGAGACACTCAAGGGCGAATT CAGATCTGGTACCGATATCAAGCTTGTGCGACTCTAGATTGCGGCCGCGGTATAGCTGTT TCCTGAACAGATCCCCGGTGGCATCCCTGTGACCNCTCCCCAGTGCCTCTCCTGGCCCTT GGAAGTTGCCACTCCAGTGCCACCAGCCTTGCTTAATAAAAATTAGTTGCATCATTTTG TCTGACTANGTGCCTTCTTAAATGGAGGGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002062
<b>Insert Size:</b>	1700 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.  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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002062.2</a> , <a href="#">NP_002053.2</a>
<b>RefSeq Size:</b>	3071 bp
<b>RefSeq ORF:</b>	1392 bp

<b>Locus ID:</b>	2740
<b>UniProt ID:</b>	<a href="#">P43220</a>
<b>Cytogenetics:</b>	6p21.2
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	<p>This gene encodes a 7-transmembrane protein that functions as a receptor for glucagon-like peptide 1 (GLP-1) hormone, which stimulates glucose-induced insulin secretion. This receptor, which functions at the cell surface, becomes internalized in response to GLP-1 and GLP-1 analogs, and it plays an important role in the signaling cascades leading to insulin secretion. It also displays neuroprotective effects in animal models. Polymorphisms in this gene are associated with diabetes. The protein is an important drug target for the treatment of type 2 diabetes and stroke. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2016]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the supported protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>