

Product datasheet for **RG211333**

GLP1R (NM_002062) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLP1R (NM_002062) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLP1R
Synonyms:	GLP-1; GLP-1-R; GLP-1R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG211333 representing NM_002062
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCCGGCGCCCCGGCCCGCTGCGCCTTGCGCTGCTGCTCGGGATGGTGGGAGGGCCGGCCCC
 GCCCCAGGGTGCCACTGTGTCCCTCTGGGAGACGGTGCAGAAATGGCGAGAATACCGACGCCAGTGCCA
 GCGCTCCCTGACTGAGGATCCACCTCCTGCCACAGACTTGTTCTGCAACCGGACCTTCGATGAATACGCC
 TGCTGGCCAGATGGGAGCCAGGCTCGTTCGTGAATGTCAGCTGCCCTGGTACCTGCCCTGGCCAGCA
 GTGTGCCCGAGGGCCACGTGTACCGTTCTGCACAGCTGAAGGCCTCTGGCTGCAGAAGGACAACTCCAG
 CCTGCCCTGGAGGACTTGTGGAGTGCAGGAGTCCAAGCGAGGGGAGAGAAGCTCCCCGGAGGAGCAG
 CTCCTGTTCTCTACATCATCTACACGGTGGGCTACGCACTCTCCTTCTGCTCTGGTTATCGCCTCTG
 CGATCCTCCTCGCTTCAGACACCTGCACTGCACCCGGAACACATCCACCTGAACCTGTTTGCATCCTT
 CATCCTGCGAGCATTGTCGCTTTCATCAAGGACGAGCCCTGAAGTGGATGTATAGCACAGCCGCCAG
 CAGCACCAGTGGGATGGGCTCCTCCTACCAGGACTCTCTGAGCTGCCGCTGGTGTTCCTGCTCATGC
 AGTACTGTGTGGCGCAATACTACTGGCTCTTGGTGGAGGGCGGTACCTGTACACACTGCTGGCCTT
 CTCGGTCTTCTGAGCAATGGATCTTACGGCTTACGTGAGCATAGGCTGGGGTGTTCCTGCTGTTT
 GTTGTCCCCTGGGGCATTGTCAAGTACCTCTATGAGGACGAGGGCTGCTGGACCAGGAACCCAACATGA
 ACTACTGGCTCATTATCCGGCTGCCATTCTCTTGGCATTGGGGTGAACCTCCTCATCTTTGTTCCGGT
 CATCTGCATCGTGGTATCCAACTGAAGCCAACTCATGTGCAAGACAGACATCAAATGCAGACTTGCC
 AAGTCCACGCTGACACTCATCCCCTGCTGGGGACTCATGAGGTATCTTTGCCTTTGTGATGGACGAGC
 ACGCCCCGGGGACCCTGCGCTTTCATCAAGCTGTTACAGAGCTCTCCTCACCTCCTCCAGGGGCTGAT
 GGTGGCCATCTTATACTGCTTTGTCAACAATGAGGTCCAGCTGGAATTCGGAAGAGCTGGGAGCGCTGG
 CGGCTTGAGCACTTGACATCCAGAGGGACAGCAGCATGAAGCCCTCAAGTGTCCACCAGCAGCCTGA
 GCAGTGGAGCCACGGCGGCAGCAGCATGTACACAGCCACTTGCCAGGCCTCCTGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG211333 representing NM_002062
 Red=Cloning site Green=Tags(s)

MAGAPGPLRLALLLLGMVGRAGPRPQGATVSLWETVQKWREYRRQCQRSLTEDPPPATDLFCNRTFDEYA
 CWPDGEPSFVNVSCPWYLPWASSVPQGHVYRFTAEGWLQKDNSSLPWRDLSECEESKRGRSSPEEQ
 LLFLYIIYTVGYALSFSALVIASAILLGFRLHCTRNYIHLNLFASFILRALSVFIKDAALKWMYSTAAQ
 QHQWDGLLSYQDSLSCRLVFLLMQYCAANYWLLVEGVLYTLLEAFSVFSEQWIFRLYVSIWGVPLLF
 VVPWGIWKYLYEDEGCWTRNSNMNYWLIIRLPILFAIGVNFLIFVVRVICIVVSKLKANLMCKTDIKCRLA
 KSTLTLIPLLGTHEVIFAFVMDEHARGTLRFIKLFTLSFTSFQGLMVAIYCFVNNEVQLEFRKSWERW
 RLEHLHIQRDSSMKPLKPTSSLSGATAGSSMYTATCQASCS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_002062

ORF Size: 1389 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_002062.2](#), [NP_002053.2](#)

RefSeq Size: 3071 bp

RefSeq ORF: 1392 bp

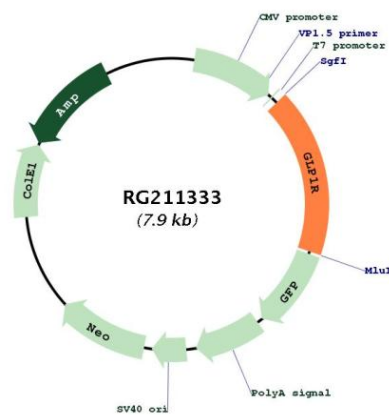
Locus ID: 2740

UniProt ID: [P43220](#)

Cytogenetics: 6p21.2

Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	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]

Product images:



Circular map for RG211333