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Product datasheet for RC211179

Glucagon Receptor (GCGR) (NM_000160) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glucagon Receptor (GCGR) (NM_000160) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glucagon Receptor
Synonyms:	GGR; GL-R; MVAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC211179 representing NM_000160
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCCCCTGCCAGCCACAGCGACCCCTGCTGCTGTTGCTGCTGCTGGCCTGCCAGCCACAGGTCC
CCTCCGCTCAGGTGATGGACTTCCTGTTTGAGAAGTGGAAGCTCTACGGTGACCAGTGTCACCACAACCT
GAGCCTGCTGCCCCCTCCCACGGAGCTGGTGTGCAACAGAACCTTCGACAAGTATTCCTGCTGGCCGGAC
ACCCCCGCCAATACCACGGCCAACATCTCCTGCCCCTGGTACCTGCCTTGGCACCACAAAGTGCAACACC
GCTTCGTGTTCAAGAGATGCGGGCCCGACGGTCAGTGGGTGCGTGGACCCCGGGGGCAGCCTTGGCGTGA
TGCCTCCCAGTGCCAGATGGATGGCGAGGAGATTGAGGTCCAGAAGGAGGTGGCCAAGATGTACAGCAGC
TTCCAGGTGATGTACACAGTGGGCTACAGCCTGTCCCTGGGGGCCCTGCTCCTCGCCTTGGCCATCCTGG
GGGGCCTCAGCAAGCTGCACTGCACCCGCAATGCCATCCACGCGAATCTGTTTGCGTCCTTCGTGCTGAA
AGCCAGCTCCGTGCTGGTCATTGATGGGCTGCTCAGGACCCGCTACAGCCAGAAAATTGGCGACGACCTC
AGTGTCAGCACCTGGCTCAGTGATGGAGCGGTGGCTGGCTGCCGTGTGGCCGCGGTGTTCATGCAATATG
GCATCGTGGCCAACTACTGCTGGCTGCTGGTGGAGGGCCTGTACCTGCACAACCTGCTGGGCCTGGCCAC
CCTCCCCGAGAGGAGCTTCTTCAGCCTCTACCTGGGCATCGGCTGGGGTGCCCCCATGCTGTTCGTCGTC
CCCTGGGCAGTGGTCAAGTGTCTGTTCGAGAACGTCCAGTGCTGGACCAGCAATGACAACATGGGCTTCT
GGTGGATCCTGCGGTTCCCCGTCTTCCTGGCCATCCTGATCAACTTCTTCATCTTCGTCCGCATCGTTCA
GCTGCTCGTGGCCAAGCTGCGGGCACGGCAGATGCACCACACAGACTACAAGTTCCGGCTGGCCAAGTCC
ACGCTGACCCTCATCCCTCTGCTGGGCGTCCACGAAGTGGTCTTCGCCTTCGTGACGGACGAGCACGCCC
AGGGCACCCTGCGCTCCGCCAAGCTCTTCTTCGACCTCTTCCTCAGCTCCTTCCAGGGCCTGCTGGTGGC
TGTCCTCTACTGCTTCCTCAACAAGGAGGTGCAGTCGGAGCTGCGGCGGCGTTGGCACCGCTGGCGCCTG
GGCAAAGTGCTATGGGAGGAGCGGAACACCAGCAACCACAGGGCCTCATCTTCGCCCGGCCACGGCCCTC
CCAGCAAGGAGCTGCAGTTTGGGAGGGGTGGTGGCAGCCAGGATTCATCTGCGGAGACCCCCTTGGCTGG
TGGCCTCCCTAGATTGGCTGAGAGCCCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211179 representing NM_000160
Red=Cloning site Green=Tags(s)

MPPCQPQRPLLLLLLLLACQPQVPSAQVMDFLFEKWKLYGDQCHHNLSLLPPPTELVCNRTFDKYSCWPD
TPANTTANISCPWYLPWHHKVQHRFVFKRCGPDGQWVRGPRGQPWRDASQCQMDGEEIEVQKEVAKMYSS
FQVMYTVGYSLSLGALLLALAILGGLSKLHCTRNAIHANLFASFVLKASSVLVIDGLLRTRYSQKIGDDL
SVSTWLSDGAVAGCRVAAVFMQYGIVANYCWLLVEGLYLHNLLGLATLPERSFFSLYLGIGWGAPMLFVV
PWAVVKCLFENVQCWTSNDNMGFWWILRFPVFLAILINFFIFVRIVQLLVAKLRARQMHHTDYKFRLAKS
TLTLIPLLGVHEVVFAFVTDEHAQGTLRSAKLFFDLFLSSFQGLLVAVLYCFLNKEVQSELRRRWHRWRL
GKVLWEERNTSNHRASSSPGHGPPSKELQFGRGGGSQDSSAETPLAGGLPRLAESPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2553_f01.zip

Restriction Sites: SgfI-MluI

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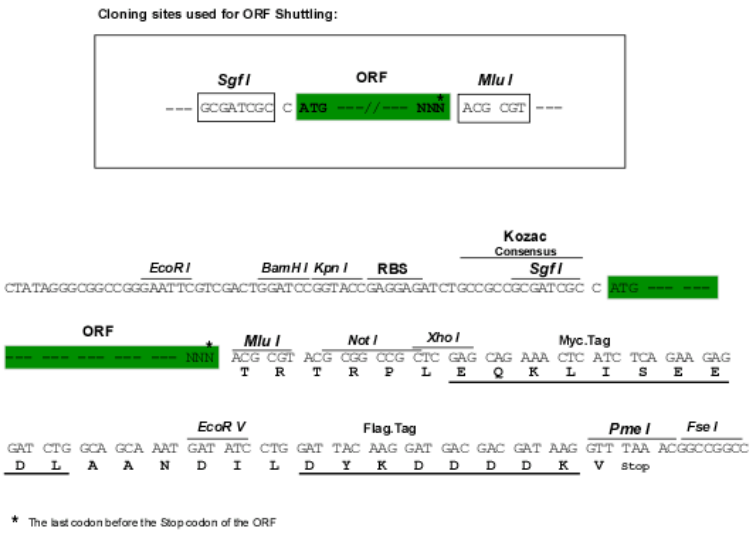
Cloning Scheme:



ACCN: NM_000160

ORF Size: 1431 bp

OTI Disclaimer: 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.

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.

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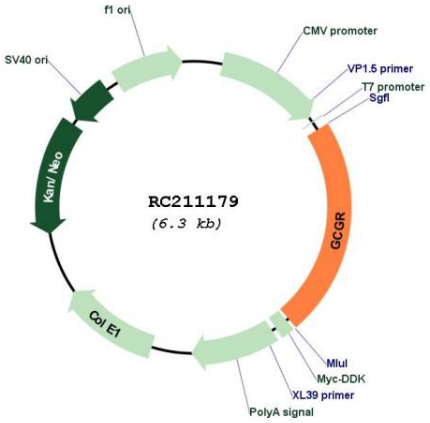
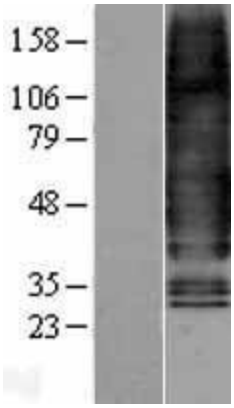
RefSeq:	NM_000160.5
RefSeq Size:	2034 bp
RefSeq ORF:	1434 bp
Locus ID:	2642
UniProt ID:	P47871
Cytogenetics:	17q25.3
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	54.01 kDa
Gene Summary:	The protein encoded by this gene is a glucagon 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]

Product images:



Circular map for RC211179



Western blot validation of overexpression lysate (Cat# [LY400057]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211179 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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