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Product datasheet for RC220392

Ghrelin Receptor (GHSR) (NM_198407) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ghrelin Receptor (GHSR) (NM_198407) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ghrelin Receptor
Synonyms:	GHDP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC220392 representing NM_198407
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGAACGCGACGCCCAGCGAAGAGCCGGGGTTCAACCTCACACTGGCCGACCTGGACTGGGATGCTT
CCCCCGGCAACGACTCGCTGGGCGACGAGCTGCTGCAGCTCTTCCCCGCGCCGCTGCTGGCGGGCGTCAC
AGCCACCTGCGTGGCACTCTTCGTGGTGGGTATCGCTGGCAACCTGCTCACCATGCTGGTGGTGTCGCGC
TTCCGCGAGCTGCGCACCACCACCAACCTCTACCTGTCCAGCATGGCCTTCTCCGATCTGCTCATCTTCC
TCTGCATGCCCCTGGACCTCGTTCGCCTCTGGCAGTACCGGCCCTGGAACTTCGGCGACCTCCTCTGCAA
ACTCTTCCAATTCGTCAGTGAGAGCTGCACCTACGCCACGGTGCTCACCATCACAGCGCTGAGCGTCGAG
CGCTACTTCGCCATCTGCTTCCCACTCCGGGCCAAGGTGGTGGTCACCAAGGGGCGGGTGAAGCTGGTCA
TCTTCGTCATCTGGGCCGTGGCCTTCTGCAGCGCCGGGCCCATCTTCGTGCTAGTCGGGGTGGAGCACGA
GAACGGCACCGACCCTTGGGACACCAACGAGTGCCGCCCCACCGAGTTTGCGGTGCGCTCTGGACTGCTC
ACGGTCATGGTGTGGGTGTCCAGCATCTTCTTCTTCCTTCCTGTCTTCTGTCTCACGGTCCTCTACAGTC
TCATCGGCAGGAAGCTGTGGCGGAGGAGGCGCGGCGATGCTGTCGTGGGTGCCTCGCTCAGGGACCAGAA
CCACAAGCAAACCGTGAAAATGCTGGCTGTAGTGGTGTTTGCCTTCATCCTCTGCTGGCTCCCCTTCCAC
GTAGGGCGATATTTATTTTCCAAATCCTTTGAGCCTGGCTCCTTGGAGATTGCTCAGATCAGCCAGTACT
GCAACCTCGTGTCCTTTGTCCTCTTCTACCTCAGTGCTGCCATCAACCCCATTCTGTACAACATCATGTC
CAAGAAGTACCGGGTGGCAGTGTTCAGACTTCTGGGATTCGAACCCTTCTCCCAGAGAAAGCTCTCCACT
CTGAAAGATGAAAGTTCTCGGGCCTGGACAGAATCTAGTATTAATACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC220392 representing NM_198407
Red=Cloning site Green=Tags(s)

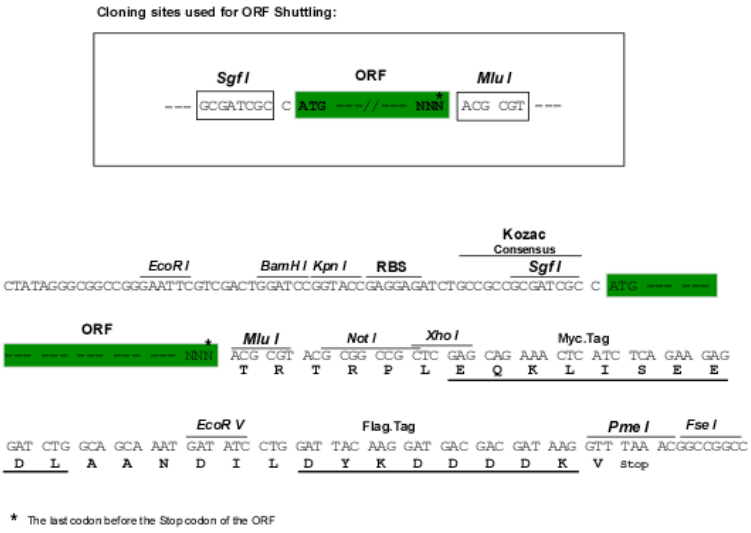
MWNATPSEEPGFNLTLADLDWDASPGNDSLGDELLQLFPAPLLAGVTATCVALFVVGIAGNLLTMLVVSR
FRELRTTTNLYLSSMAFSDLLIFLCMPLDLVRLWQYRPWNFGDLLCKLFQFVSESCTYATVLTITALSVE
RYFAICFPLRAKVVVTKGRVKLVIFVIWAVAFCSAGPIFVLVGVEHENGTDPWDTNECRPTEFAVRSGLL
TVMVWVSSIFFFLPVFCLTVLYSLIGRKLWRRRRGDAVVGASLRDQNHKQTVKMLAVVVFAFILCWLPFH
VGRYLFSKSFEPGSLEIAQISQYCNLVSFVLFYLSAAINPILYNIMSKKYRVAVFRLLGFEPFSQRKLST
LKDESSRAWTESSINT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2648_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198407

ORF Size: 1098 bp

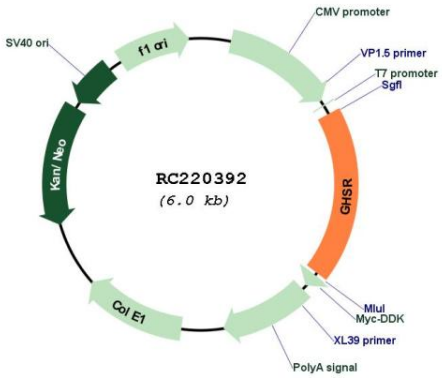
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_198407.1, NP_940799.1
RefSeq Size:	1101 bp
RefSeq ORF:	1101 bp
Locus ID:	2693
UniProt ID:	Q92847
Cytogenetics:	3q26.31
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	41.1 kDa
Gene Summary:	This gene encodes a member of the G-protein coupled receptor family. The encoded protein may play a role in energy homeostasis and regulation of body weight. Two identified transcript variants are expressed in several tissues and are evolutionary conserved in fish and swine. One transcript, 1a, excises an intron and encodes the functional protein; this protein is the receptor for the Ghrelin ligand and defines a neuroendocrine pathway for growth hormone release. The second transcript (1b) retains the intron and does not function as a receptor for Ghrelin; however, it may function to attenuate activity of isoform 1a. Mutations in this gene are associated with autosomal idiopathic short stature.[provided by RefSeq, Apr 2010]

Product images:



Circular map for RC220392