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# Product datasheet for SC307691

## Ghrelin Receptor (GHSR) (NM_198407) Human Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Ghrelin Receptor (GHSR) (NM_198407) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Ghrelin Receptor |
| **Synonyms:** | GHDP |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Fully Sequenced ORF:** | >OriGene sequence for NM_198407 edited<br>ATGTGGAACGCGACGCCCAGCGAAGAGCCGGGGTTCAACCTCACACTGGCCGACCTGGAC<br>TGGGATGCTTCCCCCGGCAACGACTCGCTGGGCGACGAGCTGCTGCAGCTCTTCCCCGCG<br>CCGCTGCTGGCGGGCGTCACAGCCACCTGCGTGGCACTCTTCGTGGTGGGTATCGCTGGC<br>AACCTGCTCACCATGCTGGTGGTGTCGCGCTTCCGCGAGCTGCGCACCACCACCAACCTC<br>TACCTGTCCAGCATGGCCTTCTCCGATCTGCTCATCTTCCTCTGCATGCCCCTGGACCTC<br>GTTCGCCTCTGGCAGTACCGGCCCTGGAACTTCGGCGACCTCCTCTGCAAACTCTTCCAA<br>TTCGTCAGTGAGAGCTGCACCTACGCCACGGTGCTCACCATCACAGCGCTGAGCGTCGAG<br>CGCTACTTCGCCATCTGCTTCCCACTCCGGGCCAAGGTGGTGGTCACCAAGGGGCGGGTG<br>AAGCTGGTCATCTTCGTCATCTGGGCCGTGGCCTTCTGCAGCGCCGGGCCCATCTTCGTG<br>CTAGTCGGGGTGGAGCACGAGAACGGCACCGACCCTTGGGACACCAACGAGTGCCGCCCC<br>ACCGAGTTTGCGGTGCGCTCTGGACTGCTCACGGTCATGGTGTGGGTGTCCAGCATCTTC<br>TTCTTCCTTCCTGTCTTCTGTCTCACGGTCCTCTACAGTCTCATCGGCAGGAAGCTGTGG<br>CGGAGGAGGCGCGGCGATGCTGTCGTGGGTGCCTCGCTCAGGGACCAGAACCACAAGCAA<br>ACCGTGAAAATGCTGGCTGTAGTGGTGTTTGCCTTCATCCTCTGCTGGCTCCCCTTCCAC<br>GTAGGGCGATATTTATTTTCCAAATCCTTTGAGCCTGGCTCCTTGGAGATTGCTCAGATC<br>AGCCAGTACTGCAACCTCGTGTCCTTTGTCCTCTTCTACCTCAGTGCTGCCATCAACCCC<br>ATTCTGTACAACATCATGTCCAAGAAGTACCGGGTGGCAGTGTTCAGACTTCTGGGATTC<br>GAACCCTTCTCCCAGAGAAAGCTCTCCACTCTGAAAGATGAAAGTTCTCGGGCCTGGACA<br>GAATCTAGTATTAATACATGA |
| **Restriction Sites:** | Please inquire |
| **ACCN:** | NM_198407 |
| **Insert Size:** | 1100 bp |



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| **OTI Disclaimer:** | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| **OTI Annotation:** | The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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 |
| **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]<br>Transcript Variant: This variant (1a), also known as GHS-R1a, represents the completely spliced transcript, and encodes the longer isoform (1a). This transcript has been shown to encode a functional 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. |