

Product datasheet for SC128078

Ghrelin Receptor (GHSR) (NM_004122) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ghrelin Receptor (GHSR) (NM_004122) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ghrelin Receptor
Synonyms:	GHDP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128078 sequence for NM_004122 edited (data generated by NextGen Sequencing)

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ATGTGGAACGCGACGCCAGCGAAGAGCCGGGTTCAACCTCACACTGGCCGACCTGGAC
TGGGATGCTTCCCCGGCAACGACTCGCTGGGCGACGAGCTGCTGCAGCTTCCCCGCG
CCGCTGCTGGCGGGCGTACAGCCACCTGCGTGGCACTTTCGTGGTGGGTATCGCTGGC
AACCTGCTCACCATGCTGGTGGTGTGCGCTTCCGCGAGCTGCGCACCACCACCAACCTC
TACCTGTCCAGCATGGCCTTCTCCGATCTGCTCATCTTCTCTGCATGCCCTGGACCTC
GTTGCGCTCTGGCAGTACCGCCCTGGAACCTCGGCGACCTCCTTGCAAACCTTCCAA
TTCGTGAGTGCAGCTGCACCTACGCCACGGTGTGCTCACCATCACAGCGCTGAGCGTCGAG
CGTACTTCGCCATCTGCTTCCCACTCCGGGCCAAGGTGGTGGTACCAAGGGGGGGGTG
AAGCTGGTCATCTTCGTATCTGGGCCGTGGCCTTCTGCAGCGCCGGGCCATCTTCGTG
CTAGTCGGGGTGGAGCACGAGAACGGCACCGACCTTGGGACACCAACGAGTGCCGCCCC
ACCGAGTTTGGGTGCGCTCTGGACTGCTCACGGTGTGCTGCTGGTGTGGTGTCCAGCATCTTC
TTCTTCTTCTGCTTCTGTCTCACGGTCTCTACAGTCTCATCGGCAGGAAGCTGTGG
CGGAGGAGGCGCGCGATGCTGTGCTGGTGCCTCGCTCAGGGACCAGAACCAAGCAA
ACCGTGAAATGCTGGTGGTCTCAGCGCGCTCAGGCTTTCTCTCGCGGGTCTATC
CTCTCCCTGTGCCTTCTCCCTTCTCTGA

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Clone variation with respect to NM_004122.2
171 c=>t



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004122 unedited TACGGAATTGTAACGACTCACTATAGGGNCCGGCCAGTGTGATGGGAATCTGCAGA ATTCGCCCTTATGTGGAACGCGACGCCAGCGAAGAGCCGGGTTCAACCTCACACTGGC CGACCTGGACTGGGATGCTTCCCCGGCAACGACTCGTGGGCGACGAGCTGCTGCAGCT CTTCCCCGCGCGCTGCTGGCGGGCGTCACAGCCACCTGCGTGGCACTCTTCGTGGTGGG TATCGTGGCAACCTGCTCACCATGCTGGTGGTGTGCGGCTTCCGCGAGCTGCGCACCCAC CACCAACCTCTACCTGTCCAGCATGGCCTTCTCCGATCTGCTCATCTTCCCTCTGCATGCC CCTGGACCTCGTTCCGCTCTGGCAGTACCGGCCCTGGAACCTTCGGCGACCTCCTCTGCAA ACTCTTCCAGTTCGTGAGAGCTGCACCTACGCCACGGTGTCTACCATCACAGCGCT GAGCGTCGAGCGCTACTTCGCCATCTGCTTCCACTCCGGGCAAGGTGGTGGTACCAA GGGGCGGGTGAAGCTGGTCATCTTCGTCTCTGGGCCGTGGCCTTCTGCAGCGCCGGGCC CATCTTCGTGCTAGTCGGGGTGGAGCACGAGAACGGCACCGACCCTTGGGACCAACGA GTGCCGCCACCAGTGTGCGGGCGCTCTGGACTGCTACGGTTCATGGAGTGGTGGC CAGCATCTTCTTCTTCTCTGACTTCTGGCTCACGGGGCTCTACAGTCTCATCGGCAG GAAGCTGTGGCGAAGGGAGGCGCGGGCGATGCTGTCCGTGTGCCTCGCTCAGGAACCA GTACTCCAAGACAAACCTGAAAATGCTGGGCGGGTCTCCACGCGCGCTCAAGGCTAT CTTCTGCGGGAGCCATCGCTTCTTCTGGTGCCTTCGACCCTTTCTTGAAGGGCGGAA TCCACCCCACTGGCGGCCCT
3' Read Nucleotide Sequence:	>Forward primer walk for NM_004122 unedited GCCCCACCGAGTTTGGGTGCGCTCTGGACTGCTCACGGTCATGGTGTGGGTGTCCAGCA TCTTCTTCTTCTTCTGCTTCTGCTCACGGTCTCTACAGTCTCATCGGCAGGAAGC TGTGGCGGAGGAGCGCGCGCATGCTGTGCTGGGTGCCTCGCTCAGGGACCAGAACCACA AGCAAACCGTGA AAAATGCTGGGTGGTCTCAGCGCGCTCAGGCTTTCTCTCGCGGTC CTATCCTCTCCCTGTGCCTTCTCCCTTCTCTGAAAGGGCGAATTCCAGCACACTGGCG GCCGTTACTAGTGGATCCGAGCTCGGTACCGATATCAAGCTTGTGACTCTAGATTGCGG CCGCGGTTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCAAG TGCCCTCTCTGGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGTCTAATAAAAAT TAAGTTGCATCATTTTGTCTGACTAGGTGCCTTCTATAATATTATGGGG
Restriction Sites:	Please inquire
ACCN:	NM_004122
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).
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:	<ol style="list-style-type: none"> 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:	<u>NM_004122.1</u> , <u>NP_004113.1</u>
RefSeq Size:	870 bp

RefSeq ORF:	870 bp
Locus ID:	2693
UniProt ID:	Q92847
Cytogenetics:	3q26.31
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1b), also known as GHS-R1b, includes intronic sequence and results in a predicted protein with a distinct C-terminus lacking two transmembrane domains, compared to isoform 1a. This protein does not function as a ghrelin receptor; however, it may play a regulatory role.</p>