

Product datasheet for SC114299

MTLRP (GHRL) (NM_016362) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTLRP (GHRL) (NM_016362) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTLRP
Synonyms:	MTLRP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114299 sequence for NM_016362 edited (data generated by NextGen Sequencing)

```
ATGCCCTCCCAGGGACCGTCTGCAGCCTCTGCTCCTCGGCATGCTCTGGCTGGACTTG
GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACCAGAGAGTCCAGCAGAGAAAGGAG
TCGAAGAAGCCACCAGCCAAGCTGCAGCCCGAGCTCTAGCAGGCTGGCTCCGCCGGAA
GATGGAGGTCAAGCAGAAGGGGCAGAGGATGAAATGGAAGTCCGGTTCAACGCCCCCTTT
GATGTTGGAATCAAGCTGTCAAGGGTTCAGTACCAGCAGCACAGCCAGGCCCTGGGGAAG
TTTCTTCAGGACATCCTCTGGGAAGAGGCCAAAGAGGCCCCAGCCGACAAGTGA
```

Clone variation with respect to NM_016362.3
214 c=>a

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_016362 unedited CGGGNAGGNAACTGCAGGCCACCTGTCTGCAACCCAGCTGAGGCCATGCCCTCCCAGG ACCGTCTGCAGCCTCTGCTCCTCGGCATGCTCTGGCTGGACTTGCCATGGCAGGCTCC AGCTTCTGAGCCCTGAACACCAGAGAGTCCAGCAGAGAAAGGAGTGAAGAAGCCACCA GCCAAGCTGCAGCCCGAGCTCTAGCAGGCTGGCTCCGCCGGAAGATGGAGGTCAAGCA GAAGGGGCAGAGGATGAAATGGAAGTCCGGTTCAACGCCCCCTTTGATGTTGGAATCAAG CTGTCAAGGGTTCAGTACCAGCAGCACAGCCAGGCCCTGGGGAAGTTTCTTCAGGACATC CTCTGGGAAGAGGCCAAAGAGGCCCCAGCCGACAAGTGATCGCCACAAGCCTTACTCAC CTCTCTCTAAGTTTAGAAGCGCTCATCTGGCTTTTCGCTTGTCTGAGCAACTCCCAC GACTGTTGTACAAGCTCAGGAGGCGAATAAATGTTCAAAGTGTAAAAA AAAAAAGGGCGGNCCGCGTCAATAGCTGTTTCTGAAACAGATCCCCGGGTGGCATCC CCTGTGACCCCTCCCAGTGCCTCTCCTGGCCCTGGNAAGTTGCCACTCCAGTGCCACC AGCCTTGTCTAATAAAATTAAGTTGCATCATTTTGTCTGACTAAGTGTCTTCTATAA
------------------------------	---

Restriction Sites: Please inquire



[View online »](#)

ACCN:	NM_016362
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:	NM_016362.2 , NP_057446.1
RefSeq Size:	518 bp
RefSeq ORF:	354 bp
Locus ID:	51738
UniProt ID:	Q9UBU3
Cytogenetics:	3p25.3
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Gene Summary:	<p>This gene encodes the ghrelin-obestatin preproprotein that is cleaved to yield two peptides, ghrelin and obestatin. Ghrelin is a powerful appetite stimulant and plays an important role in energy homeostasis. Its secretion is initiated when the stomach is empty, whereupon it binds to the growth hormone secretagogue receptor in the hypothalamus which results in the secretion of growth hormone (somatotropin). Ghrelin is thought to regulate multiple activities, including hunger, reward perception via the mesolimbic pathway, gastric acid secretion, gastrointestinal motility, and pancreatic glucose-stimulated insulin secretion. It was initially proposed that obestatin plays an opposing role to ghrelin by promoting satiety and thus decreasing food intake, but this action is still debated. Recent reports suggest multiple metabolic roles for obestatin, including regulating adipocyte function and glucose metabolism. Alternative splicing results in multiple transcript variants. In addition, antisense transcripts for this gene have been identified and may potentially regulate ghrelin-obestatin preproprotein expression. [provided by RefSeq, Nov 2014]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). This isoform (1) contains the ligands ghrelin-28 and obestatin. Variants 1, 8, 9, 11 and 12 encode the same protein.</p>