

Product datasheet for **MC225564**

Ghrl (NM_001286405) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ghrl (NM_001286405) Mouse Untagged Clone
Tag: Tag Free
Symbol: Ghrl
Synonyms: 2210006E23Rik; Gh; Ghr; m46; MT; MTLRP; MTLRPAP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225564 representing NM_001286405
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGTCTTCAGGCACCATCTGCAGTTTGCTGCTACTCAGCATGCTCTGGATGGACATGGCCATGGCAG
GCTCCAGCTTCCTGAGCCAGAGCACAGAAAGCCAGCAGAGAAAGGAATCCAAGAAGCCACCAGCTAA
ACTGCAGCCACGAGCTCTGGAAGGCTGGCTCCACCCAGAGGACAGAGGACAAGCAGAAGAGACAGAGGAG
GAGCTGGAGATCAGGAGGCCAGCTGACAAGTAACCACGGACAGGC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001286405
Insert Size: 261 bp

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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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_001286405.1, NP_001273334.1</u>
RefSeq Size:	401 bp
RefSeq ORF:	261 bp
Locus ID:	58991
UniProt ID:	<u>Q9EQX0</u>
Cytogenetics:	6 52.84 cM
Gene Summary:	<p>This gene encodes a preproprotein that undergoes proteolytic processing to yield two bioactive peptides, ghrelin and obestatin. The hormone ghrelin plays a role in enhancing appetite and has numerous other biological functions that include stimulating the secretion of growth hormone (somatotropin) from the anterior pituitary gland. Obestatin is thought to be a hormone that functions in decreasing appetite. Mice lacking the encoded protein develop normally and exhibit no gross anatomical abnormalities. This gene encodes distinct isoforms, some or all of which may undergo similar proteolytic processing. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and lacks an exon in the 3' coding region resulting in a frameshift, compared to variant 1. The encoded protein (isoform 3) is shorter than isoform 1 and has a distinct C-terminus. This isoform (3) may undergo proteolytic processing similar to isoform 1.</p>