

## Product datasheet for MR212134

### Ghrl (NM\_021488) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ghrl (NM\_021488) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ghrl  
**Synonyms:** 2210006E23Rik; Gh; Ghr; m46; MT; MTLRP; MTLRPAP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR212134 representing NM\_021488  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTGTCTTCAGGCACCATCTGCAGTTTGTCTGCTACTCAGCATGCTCTGGATGGACATGGCCATGGCAG  
GCTCCAGTTCTCTGAGCCAGAGCACCAGAAAGCCAGCAGAGAAAGGAATCCAAGAAGCCACCAGCTAA  
ACTGCAGCCACGAGCTCTGGAAGGCTGGCTCCACCCAGAGGACAGAGGACAAGCAGAAGAGACAGAGGAG  
GAGCTGGAGATCAGTTCAATGCTCCCTTCGATGTTGGCATCAAGCTGTCAGGAGCTCAGTATCAGCAGC  
ATGGCCGGGCCCTGGGAAGTTTCTTCAGGATATCCTCTGGGAAGAGGTCAAAGAGGCCAGCTGACAA  
G

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR212134 representing NM\_021488  
Red=Cloning site Green=Tags(s)  
MLSSGTICSLLLL SMLWMDMAMAGSSFLSPEHQKAQQRKESKPPAKLQPRALEGWLHPEDRGQAEETEE  
ELEIRFNAPFDVGIKLSGAQYQQHGRALGKFLQDILWEEVKEAPADK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_021488

**ORF Size:** 351 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\\_021488.5](#)

**RefSeq Size:** 527 bp

**RefSeq ORF:** 354 bp

**Locus ID:** 58991

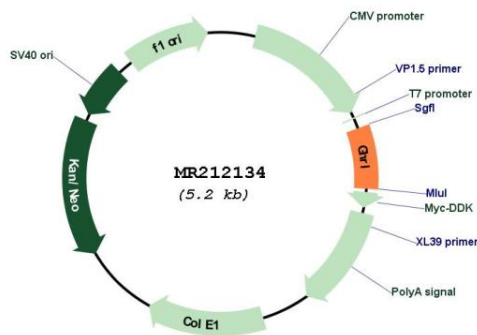
UniProt ID: [Q9EQX0](#)

Cytogenetics: 6 52.84 cM

MW: 13.7 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR212134