

## Product datasheet for **MG223015**

### Ghrh (NM\_010285) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ghrh (NM\_010285) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ghrh  
**Synonyms:** Ghr; Ghrf; GRF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223015 representing NM\_010285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCTCTGGGTGCTCTTTGTGATCCTCATCCTCACCAGTGGCTCCCACTGCTCACTGCCCCCTCAC  
 CTCCTTCAGGATGCAGCGACAGTAGATGCCATCTTCACCACCAACTACAGGAACTCCTGAGCCAGT  
 GTATGCCCGAAAGTGATCCAGGACATCATGAACAAGCAAGGGGAGAGGATCCAGGAACAAGGGCCAGG  
 CTCAGCCGCCAGGAAGACAGCATGTGGACAGAGGACAAGCAGATGACCCTGGAGAGCATCTGCAGGGAT  
 TCCAAGGATGAAGCCTCAGCGGACGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG223015 representing NM\_010285  
 Red=Cloning site Green=Tags(s)  
 MLLWVLFVILILTSGSHCSLPPSPFRMQRHVDAIFTTNYRKLSQLYARKVIQDIMNKQGERIQEQRAR  
 LSRQEDSMWTEKQMTLESILQGFPRMKPSADA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

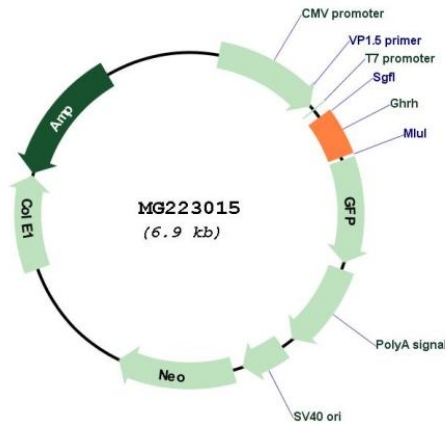


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_010285

ORF Size: 309 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_010285.3</a>
<b>RefSeq Size:</b>	534 bp
<b>RefSeq ORF:</b>	312 bp
<b>Locus ID:</b>	14601
<b>UniProt ID:</b>	<a href="#">P16043</a>
<b>Cytogenetics:</b>	2 78.25 cM
<b>Gene Summary:</b>	This gene encodes a hormone that has stimulatory effects on pituitary growth hormone synthesis and release, and somatotrope expansion. The encoded preproprotein undergoes proteolytic processing to generate the mature peptide that is secreted by hypothalamus. Mice lacking the encoded protein are deficient in the growth hormone, live longer and exhibit growth retardation, enhanced insulin sensitivity and increased xenobiotic metabolism. [provided by RefSeq, Jul 2016]