

Product datasheet for **MG200311**

Gast (NM_010257) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gast (NM_010257) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Gast
Synonyms: G; GAS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200311 representing NM_010257
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCGACTGTGTGTACATGCTGGTCTTAGTGCTGGCTCTAGCTACCTTCTCGGAAGCTTCTTGA
AGCCCCGCTCCCAGCTACAGGATGCATCATCTGGACCAGGGACCAATGAGGACCTGGAACAGCGCCAGTT
CAACAAGCTGGGCTCAGCCTCTCACCATCGAAGGCAGCTGGGGCTCCAGGGTCTCAACACTTCATAGCA
GACCTGTCCAAGAAGCAGAGGCCACGAATGGAGGAAGAAGAAGAGGCCTACGGATGGATGGACTTTGGCC
GCCGCAGTGCTGAGGAAGACCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200311 representing NM_010257
Red=Cloning site Green=Tags(s)
MPRLCVYMLVLVLAALATFSEASWKPRSQLQDASSGPGTNELEQRQFNKLGSAHHRRQLGLQGPQHFIA
DLSKKQRPRMEEEEEAYGWMDFGRRSAEEDQ

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

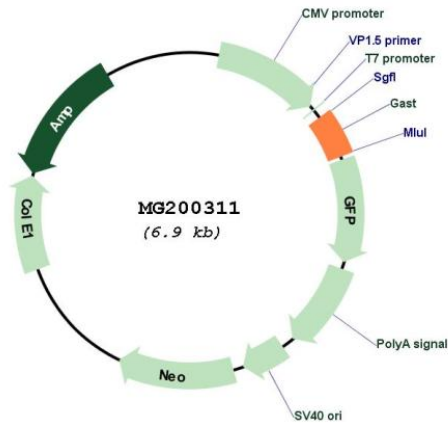


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Cloning Scheme:



Plasmid Map:



ACCN: NM_010257

ORF Size: 303 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:	<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_010257.2</u> , <u>NP_034387.2</u>
RefSeq Size:	460 bp
RefSeq ORF:	306 bp
Locus ID:	14459
UniProt ID:	<u>P48757</u>
Cytogenetics:	11 63.46 cM
Gene Summary:	This gene encodes the peptide hormone gastrin, which stimulates gastric acid secretion, proliferation, cell migration and angiogenesis, as well as inhibits apoptosis. The encoded preproprotein undergoes proteolytic processing to generate multiple gastrin peptides differing in size. Mice lacking the encoded protein exhibit a decrease in the number of parietal cells, achlorohydrria and a decrease in the colonic proliferation. [provided by RefSeq, Nov 2015]