

Product datasheet for MR200311

Gast (NM_010257) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gast (NM_010257) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gast
Synonyms: G; GAS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200311 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCTCGACTGTGTGTACATGCTGGTCTTAGTGCTGGCTCTAGCTACCTTCTCGGAAGCTTCTTGG
 AGCCCCGCTCCCAGCTACAGGATGCATCATCTGGACCAGGACCAATGAGGACCTGGAACAGCGCCAGT
 CAACAAGCTGGGCTCAGCCTCTCACCATCGAAGGCAGCTGGGGCTCCAGGGTCTCAACACTTCATAGCA
 GACCTGTCCAAGAAGCAGAGGCCACGAATGGAGGAAGAAGAAGAGGCCTACGGATGGATGGACTTTGGCC
 GCCGCAGTGCTGAGGAAGACCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

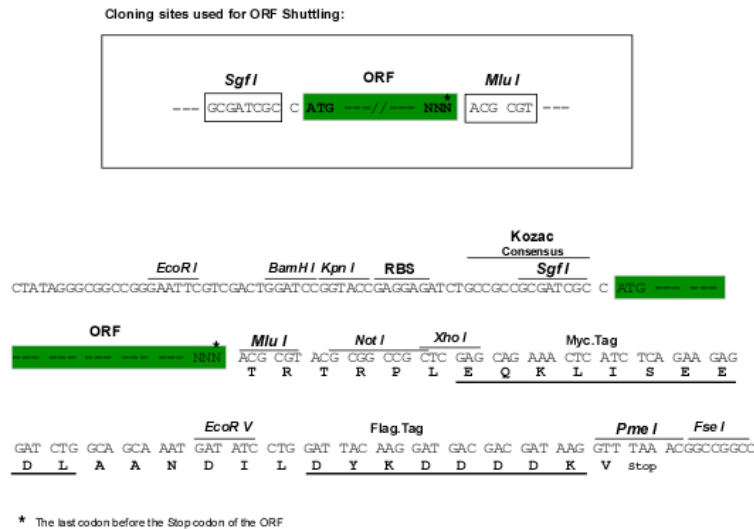
Protein Sequence: >MR200311 protein sequence
 Red=Cloning site Green=Tags(s)
 MPRLCVYMLVLLALATFSEASWKPRSQLQDASSGPGTNELEQRQFNKLGSAHHRRQLGLQGPQHFIA
 DLSKKQRPRMEEEEEAYGWMDFGRRSAEEDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_010257

ORF Size: 306 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_010257.1](#), [NM_010257.2](#), [NM_010257.3](#), [NM_010257.4](#), [NP_034387.2](#)

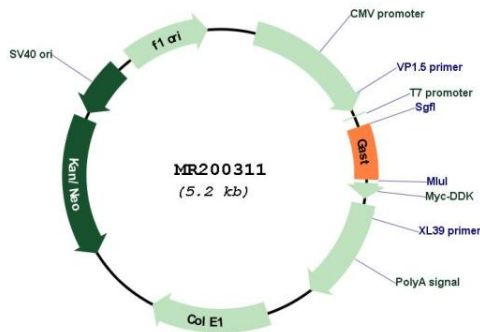
RefSeq Size: 455 bp

RefSeq ORF: 306 bp

Locus ID: 14459
UniProt ID: [P48757](#)
Cytogenetics: 11 63.46 cM
MW: 11.6 kDa

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]

Product images:



Circular map for MR200311