

Product datasheet for **RG221639**

Motilin (MLN) (NM_001040109) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Motilin (MLN) (NM_001040109) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MLN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG221639 representing NM_001040109
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTATCCCCTAAGGCTGTGGCTGCTCTGCTGGTGGTGCATGTAGCTGCCATGCTGGCCTCCCAGACGG
AAGCCTTCGTCCCCTATTCACCTATGGCGAACTCCAGAGGATGCAGGAAAAGGAACGGAATAAAGGGCA
AAAGAAATCCCTGAGTGTATGGCAGAGGTCTGGGGAGGAAGTCTGTAGACCCTGCGGAGCCCATCAGG
GAAGAAGAAAACGAAATGATCAAGCTGACTGCTCCTCTGAAAATTGGAATGAGGATGAACTCCAGACAGC
TGGAAAAGTACCCGGCCACCCTGGAAGGGCTGCTGAGTGAGATGCTTCCCAGCATGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG221639 representing NM_001040109
Red=Cloning site Green=Tags(s)

MVSRKAVAALLVVHVAAMLASQTEAFVPIFTYGELQRMQEKERNKGQKSLSVWQRSGEEGPVDPAEPIR
EEENEMIKLTAPLEIGMRMNSRQLEKYPATLEGLLSEMLPQHAK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



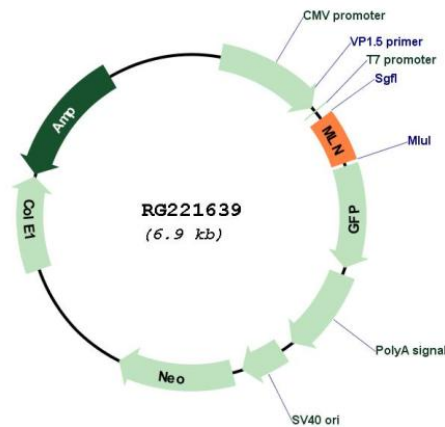
[View online »](#)

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001040109

ORF Size: 342 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001040109.2](#)

RefSeq Size: 569 bp

RefSeq ORF: 345 bp

Locus ID: 4295

UniProt ID: [P12872](#)

Cytogenetics: 6p21.31

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Gene Summary: This gene encodes a small peptide hormone that is secreted by cells of the small intestine to regulate gastrointestinal contractions and motility. Proteolytic processing of the secreted protein produces the mature peptide and a byproduct referred to as motilin-associated peptide (MAP). Three transcript variants encoding different preproprotein isoforms but the same mature peptide have been found for this gene. [provided by RefSeq, May 2010]