

Product datasheet for **RG222245**

Motilin (MLN) (NM_002418) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Motilin (MLN) (NM_002418) 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: >RG222245 representing NM_002418
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTATCCCCTAAGGCTGTGGCTGCTCTGCTGGTGGTGCATGCAGCTGCCATGCTGGCCTCCCAGACGG
AAGCCTTCGTCCCCTATCTCACCTATGGCGAACTCCAGAGGATGCAGGAAAAGGAACGGAATAAAGGGCA
AAAGAAATCCCTGAGTGTATGGCAGAGGTCTGGGGAGGAAGTCTGTAGACCCTGCGGAGCCCATCAGG
GAAGAAGAAAACGAAATGATCAAGCTGACTGCTCCTCTGAAAATTGGAATGAGGATGAACTCCAGACAGC
TGGAAAAGTACCGGCCACCCTGGAAGGGCTGCTGAGTGAGATGCTTCCCAGCATGCAGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222245 representing NM_002418
Red=Cloning site Green=Tags(s)

MVSRKAVAALLVVHAAAMLASQTEAFVPIFTYGELQRMQEKERNKGQKSLSVWQRSGEEGPVDPAEPIR
EEENEMIKLTAPLEIGMRMNSRQLEKYPATLEGLLSEMLPQHAAK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	NM_002418.1 , NP_002409.1
RefSeq Size:	571 bp
RefSeq ORF:	348 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]