

## Product datasheet for **RG214391**

### Motilin receptor (MLNR) (NM\_001507) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Motilin receptor (MLNR) (NM_001507) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MLNR
Synonyms:	GPR38; MTLR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214391 representing NM_001507 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGCCCCTGGAACGGCAGCGACGGCCCCGAGGGGGCGCGGGAGCCGCCGTGGCCCGCGCTGCCGC  
CTTGCGACGAGCGCCGCTGCTCGCCCTTCCCTGGGGCGCTGGTGCCGGTGACCGCTGTGTGCCTGTG  
CCTGTTTCGTCGTCGGGTGAGCGCAACGTGGTGACCGTGATGCTGATCGGGCGCTACCGGGACATGCGG  
ACCACCACCAACTGTACCTGGCAGCATGGCCGTGTCGACCTACTCATCTGCTCGGGCTGCCGTTCC  
ACCTGTACCGCCTCTGGCGCTCGCGCCCTGGGTGTTCCGGCCGCTGCTCTGCCGCTGTCCCTCTACGT  
GGGCGAGGGCTGCACCTACGCCACGCTGCTGCACATGACCGCGCTCAGCGTCGAGCGCTACCTGGCCATC  
TGCCGCCCGCTCCGCGCCCGCTTTGGTCAACCGCGCCGCGTCCGCGCGCTCATCGCTGTGCTCTGGG  
CCGTGGCGCTGCTCTCTGCCGTCCTTCTTGTTCCTGGTGGCGCTCGAGCAGGACCCCGGCATCTCCGT  
AGTCCCGGGCCTCAATGGCACCGCGCGGATCGCCTCCTCGCCTCTCGCCTCGTCCGCGCCTCTGGCTC  
TCGCGGGCGCCACCGCGTCCCCGCGTCGGGGCCGAGACCGCGGAGCCCGCGCGCTGTTAGCCGCG  
AATGCCGCGGAGCCCCGCGCAGCTGGGCGCGCTGCGTGTATGCTGTGGGTACCACCGCCTACTTCTT  
CCTGCCCTTCTGTGCCTCAGCATCCTCTACGGGCTCATCGGGCGGGAGCTGTGGAGCAGCCGGCGGCC  
CTGCGAGGCCCGCCGCTCGGGCGGGAGAGAGGCCACCGCGAGACCGTCCGCGTCTGCTGGTGGTGG  
TTCTGGCATTATAATTTGCTGGTTGCCCTTCCAGTTGGCAGAATCATTACATAAACACGGAAGATTTC  
GCGGATGATGACTTCTCTCAGTACTTTAACATCGTCGCTCTGCAACTTTTCTATCTGAGCGCATCTATC  
AACCCAATCCTCTACAACCTCATTTCAAAGAAGTACAGAGCGGGCCTTTAAACTGCTGCTCGAAAGGA  
AGTCCAGGCCGAGAGGCTTCCACAGAAGCAGGGACTGCGGGGGAAGTTCAGGGGACTGAGGAGAGA  
CACGGTGGCTACACCGAGACAAGCGCTAACGTGAAGACGATGGGA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG214391 representing NM\_001507  
 Red=Cloning site Green=Tags(s)

MGSPWNGSDGPEGAREPPWPALPPCDERCSPPFLGALVPVTAVCLCLFVVGVSGNVVTVMLIGRYRDMR  
 TTTNLYLGSMAVSDLLILLGLPFDLYRLWRSRPWVFGPLL CRLSLYVGEGETYATLLHMTALSVERYLAI  
 CRPLRARVLVTRRRVRALIAVLWAVALLSAGPFLFLVGVEQDPGISVVPGLNGTARIASSPLASSPPLWL  
 SRAPPPSPSPGPEAEAAALFSRECRPSPAQLGALRVMLWTTAYFFLPFLCLSILYGLIGRELWSSRRP  
 LRGPAASGRERHRQTVRVLLVVVLAFLIICWLPFHVGRIIYINTEDSRMMYFSQYFNIVALQLFYLSASI  
 NPILYNLISKKYRAAAFKLLLARKSRPRGFHRSRD TAGEVAGDTGGDTVGYTETSANVKTMG

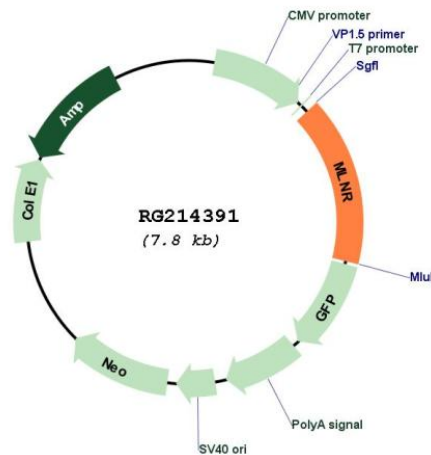
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001507

<b>ORF Size:</b>	1236 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_001507.1</a> , <a href="#">NP_001498.1</a>
<b>RefSeq Size:</b>	1239 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	2862
<b>UniProt ID:</b>	<a href="#">O43193</a>
<b>Cytogenetics:</b>	13q14.2
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	Motilin is a 22 amino acid peptide hormone expressed throughout the gastrointestinal (GI) tract. The protein encoded by this gene is a motilin receptor which is a member of the G-protein coupled receptor 1 family. This member is a multi-pass transmembrane protein, and is an important therapeutic target for the treatment of hypomotility disorders. [provided by RefSeq, Aug 2011]