

Product datasheet for **RG236150**

NMU (NM_001292045) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NMU (NM_001292045) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NMU
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236150 representing NM_001292045.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCGAACAGAGAGCTGCCGCCAGGTGCGCCGCCGGACAGGTGGCCGCGCGTCCCCGCTCCTG
CTGCTGCTGCTGCTGCTCGCCTGGTGCGCGGGCGCCTGCCGAGGTGCTCCAATATTACCTCAAGGATTA
CAGCCTGAACAACAGCTACAGTTGTGGAATGAGGCATCCAACGCACTGGAGGAGCTTTGCTTTATGATT
ATGGGAATGCTACCAAAGCCTCAGGAACAAGATGAAAAAGATAAATACTAAAAGGTTCTTATTTTCATTAT
TCGAAGACACAGAAGTTGGCAAGTCAAATGTTGTGTCGTCAGTTGTGCATCCGTTGCTGCAGCTCGTT
CCTCACCTGCATGAGAGAAGAATGAAGAGATTCAGAGTGGACGAAGAATCCAAAGTCCCTTTGCAAGT
CAAAGTCGAGGATATTTTTTATTAGGCCACGGAATGGAAGAAGTCCAGCAGGGTTCATT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236150
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLRTESCRPRSPAGQVAASPLLLLLLLAWCAGACRGAPILPQLQPEQQLQWNEASNALEELCFMI
MGMLPKPQEQDEKDNTRKFLFHYSKTQKLGKSNVSSVHPLLQLVPHLHERRMKRFRVDEEFQSPFAS
QSRGYFLFRPNRRSAGFI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_001292045

ORF Size: 474 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).

RefSeq: [NM_001292045.2](#)

RefSeq Size: 786 bp

RefSeq ORF: 477 bp

Locus ID: 10874

UniProt ID: [P48645](#)

Cytogenetics: 4q12

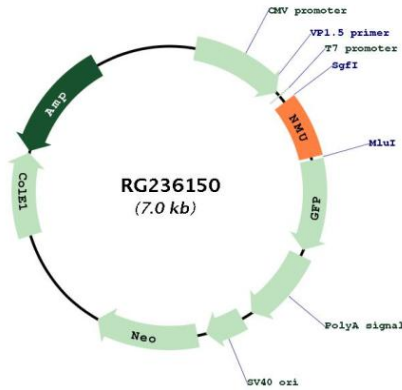
Protein Families: Druggable Genome, Secreted Protein, Transmembrane

MW: 18.5 kDa

Gene Summary:

This gene encodes a member of the neuromedin family of neuropeptides. The encoded protein is a precursor that is proteolytically processed to generate a biologically active neuropeptide that plays a role in pain, stress, immune-mediated inflammatory diseases and feeding regulation. Increased expression of this gene was observed in renal, pancreatic and lung cancers. Alternative splicing results in multiple transcript variants encoding different isoforms. Some of these isoforms may undergo similar processing to generate the mature peptide. [provided by RefSeq, Jul 2015]

Product images:



Circular map for RG236150