

## Product datasheet for **RC236072**

### NMU (NM\_001292046) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NMU (NM\_001292046) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NMU  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236072 representing NM\_001292046  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCGAACAGAGAGCTGCCGCCAGGTCCGCCCGGACAGGTGGCCGCGGCTCCCCGCTCCTGC  
TGCTGCTGCTGCTCGCCTGGTGCGCGGGCGCCTGCCGAGGTGCTCCAATATTACCTCAAGGATTACA  
GCCTGAACAACAGCTACAGTTGTGGAATGAGATAGATGATACTTGTTCGCTTTTTCTGTCCATTGATTCT  
CAGCCTCAGGCATCCAACGCACTGGAGGAGCTTTGCTTTATGATTATGGGAATGCTACCAAAGCCTCAGG  
AACAAAGATGAAAAAGATAATACTAAAAGTTCTTATTTTCATTATTCGAAGACACAGAAGTTGGGCAAGTC  
AAATGTTGTGGAAGAATTCCAAAGTCCCTTTGCAAGTCAAAGTCGAGGATATTTTTTATTAGGCCACGG  
AATGGAAGAAGTCCAGCAGGGTTCATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236072 representing NM\_001292046  
**Red**=Cloning site **Green**=Tags(s)

MLRTESCRPRSPAGQVAAASPLLLLLLLLLLAWCAGACRGAPILPQGLQPEQQLQLWNEIDDTCSSFLSIDS  
QPQASNALEELCFMIMGMLPKPQEQDEKDNTKRFLFHYSKTQKLGKSNVVEEFQSPFASQSRGYFLFRPR  
NGRRSAGFI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

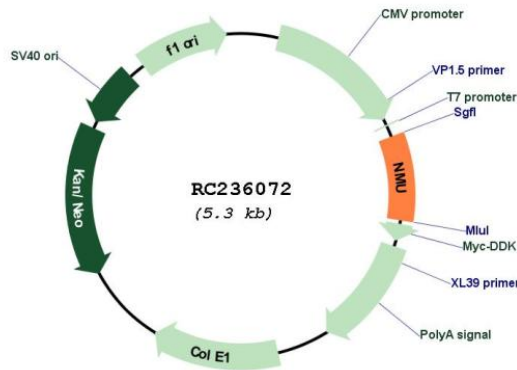


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001292046

ORF Size: 447 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](#)

<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_001292046.2</a>
<b>RefSeq Size:</b>	759 bp
<b>RefSeq ORF:</b>	450 bp
<b>Locus ID:</b>	10874
<b>UniProt ID:</b>	<a href="#">P48645</a>
<b>Cytogenetics:</b>	4q12
<b>Protein Families:</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>MW:</b>	17.2 kDa
<b>Gene Summary:</b>	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]