

Product datasheet for **RG236072**

NMU (NM_001292046) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NMU (NM_001292046) 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: >RG236072 representing NM_001292046.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCGAACAGAGAGCTGCCGCCAGGTGCGCCGCCGGACAGGTGGCCGCGCGTCCCCGCTCCTG
CTGCTGCTGCTGCTGCTCGCCTGGTGC CGGGCGCCTGCCGAGGTGCTCCAATATTACCTCAAGGATTA
CAGCCTGAACAACAGCTACAGTTGTGGAATGAGATAGATGATACTTGTTCGTCTTTCTGTCCATTGAT
TCTCAGCCTCAGGCATCCAACGCACTGGAGGAGCTTTGCTTTATGATTATGGGAATGCTACCAAAGCCT
CAGGAACAAGATGAAAAAGATAATACTAAAAGTTCTTATTTTATTTCGAAGACACAGAAGTTGGGC
AAGTCAAATGTTGTGGAAGAATTCCAAAGTCCCTTTGCAAGTCAAAGTCGAGGATATTTTTATTTCAGG
CCACGGAATGGAAGAAGTTCAGCAGGGTTCATT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236072
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MLRTESCRPRSPAGQVAASPLLLLLLLAWCAGACRGAPILPQLQPEQQLQWNEIDTCSFSLSID
SQPQASNALEELCFMIMGMLPKPQEQDEKDNTRFLFHYSKTQKLGKSNVVEEFQSPFASQSRGYFLFR
PRNGRRSAGFI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

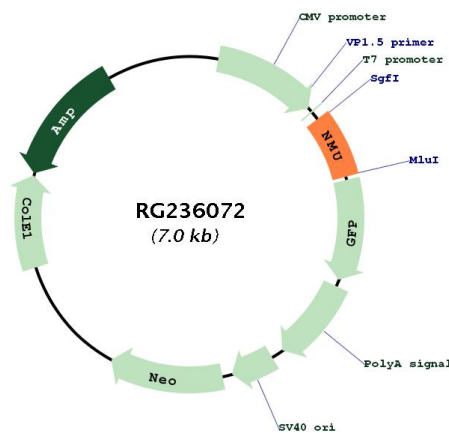
Restriction Sites: SgfI-MluI



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](#)

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_001292046.2
RefSeq Size:	759 bp
RefSeq ORF:	450 bp
Locus ID:	10874
UniProt ID:	P48645
Cytogenetics:	4q12
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
MW:	17.2 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]