

Product datasheet for **RG204513**

NMUR2 (NM_020167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NMUR2
Synonyms:	FM-4; FM4; NMU-R2; NMU2R; TGR-I; TGR1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204513 representing NM_020167
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGGGATGGAAGAACTTCAGAATGCTTCCTGGATCTACCAGCAGAACTAGAAGATCCATTCCAGA
AACACCTGAACAGCACCAGGAGTATCTGGCCTTCCTCTGCGGACCTCGGCGCAGCCACTTCTTCTCTCC
CGTGTCTGTGGTGTATGTGCCAATTTTGTGGTGGGGTCAATTGGCAATGTCTGGTGTGCTGGTGATT
CTGCAGCACCAGGCTATGAAGACGCCCACTACTACCTCTTCAGCCTGGCGGTCTCTGACCTCCTGG
TCCTGCTCCTTGAATGCCCCCTGGAGGTCTATGAGATGTGGCGCAACTACCCCTTCTTGTTCGGGCCCGT
GGGCTGCTACTTCAAGACGGCCCTCTTGAACCGTGTGCTTCGCCTCCATCCTCAGCATCACCACCGTC
AGCGTGGAGCGCTACGTGGCCATCTACACCCGTTCCGCGCCAACTGCAGAGCACCAGCGCGCGGGGCC
TCAGGATCCTCGGCATCGTCTGGGGCTTCTCCGTGCTCTTCTCCCTGCCAACACCAGCATCCATGGCAT
CAAGTTCCTACTACTTCCCAATGGGTCCCTGGTCCCAGGTTCCGGCCACCTTTACGGTCATCAAGCCCATG
TGGATCTACAATTCATCATCCAGGTACCTCCTTCTATTCTACCTCCTCCCATGACTGTCTCATCAGTG
TCCTCTACTACCTCATGGCACTCAGACTAAAGAAAGACAAATCTCTTGAGGCAGATGAAGGGAATGCAAA
TATTCAAAGACCTGCAGAAAATCAGTCAACAAGATGCTGTTGTCTTGGTCTTAGTGTTTGCTATCTGT
TGGGCCCGTTCCACATTGACCGACTCTTCTTCACTTTGTGGAGGAGTGGAGTGAATCCCTGGCTGCTG
TGTTCAACCTCGTCCATGTGGTGTGAGGTGCTTCTTCTACCTGAGCTCAGCTGTCAACCCATTATCTA
TAACCTACTGTCTCGCCGCTTCCAGGCAGATTCCAGAATGTGATCTCTTCTTCCAAACAGTGGCAC
TCCAGCATGACCCACAGTTGCCACCTGCCAGCGGAACATCTTCTGACAGAATGCCACTTTGTGGAGC
TGACCGAAGATATAGGTCCCAATCCCATGTGAGTCATCCATGCACAACCTCTCACCTCCCAACAGCCCT
CTCTAGTGAACAGATGTCAAGAACAACTATCAAAGCTTCACTTTAACAAAACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG204513 representing NM_020167
Red=Cloning site Green=Tags(s)

MSGMEKLQNASWIYQQKLEDPFQKHLNSTEYLAFLCGPRRSHFFLPVSVVYVPIFVVGVIQNVLVCLVI
LQHQMKTPTNYLFLSLAVSDLLVLLGMPLEVYEMWRNYPFLFGPVGCYFKTALFETVCFASILSITTV
SVERYVAILHPFRAKLQSTRRALRILGIVWGFSLFSLPNTSIHGKIFHYFPNGSLVPGSATFTVIKPM
WIYNFIIQVTSFLFYLLPMTVISVLYLMALRLKKDKSLEADGNANIQRPCRKSVNKMLFVLVLVFAIC
WAPFHIDRLFFSFVEEWSLAAVFNLVHVSGVFFYLSSAVNPPIIYNLLSRRFQAAFQNVISSFHKQWH
SQHDPQLPPAQRNIFLTECHFVELTEDIGPQFPCQSSMHNHSLPTALSSEQMSRTNYQSFHFNKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020167

ORF Size: 1245 bp

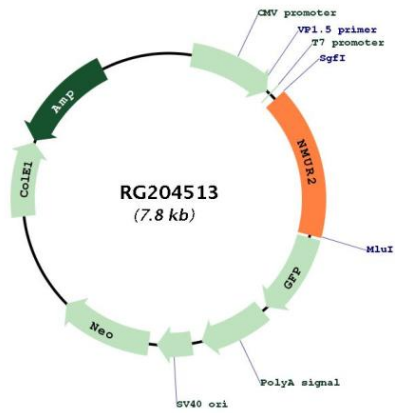
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

Reconstitution Method:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_020167.3, NP_064552.2</u>
RefSeq Size:	2057 bp
RefSeq ORF:	1248 bp
Locus ID:	56923
UniProt ID:	<u>Q9GZQ4</u>
Cytogenetics:	5q33.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes a protein from the G-protein coupled receptor 1 family. This protein is a receptor for neuromedin U, which is a neuropeptide that is widely distributed in the gut and central nervous system. This receptor plays an important role in the regulation of food intake and body weight. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204513