

## Product datasheet for **RG200705**

### Neuromedin B (NMB) (NM\_021077) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Neuromedin B (NMB) (NM\_021077) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Neuromedin B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200705 representing NM\_021077  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCCGGGGGGGGGGGCGCTCGGATGTTCCGGCAGCCTCCTGCTCTTCGCCCTGCTCGCTGCCGGCG  
 TCGCCCGCTCAGCTGGGATCTCCCGGAGCCCGCAGCCGAGCCAGCAAGATCCGAGTGCCTCGCGAGG  
 CAACCTCTGGGCCACCGTCACTTCATGGGCAAGAAGAGTCTGGAGCCTCCAGCCATCCCCATTGGGG  
 ACAGTACCCACACCTCCCTGAGGGACCGACTGCAGCTGAGTCATGATCTGCTCGGAATCCTCCTGC  
 TAAAGAAGGCTCTGGGCGTGAGCCTCAGCCGCCCGCACCCCAAATCCAGGAGGCTGCTGGTACAAATAC  
 TGCAGAAATGACACCAATAATGGGCGAGACACAACAGCGTGGCTTAGATTGTGCCACCCAGGGAAGGTG  
 CTGAATGGGACCCTGTTGATGGCCCATCTGGATGTAATCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG200705 representing NM\_021077  
 Red=Cloning site Green=Tags(s)

MARRAGGARMFGSLLLFALLAAGVAPLSDWLPPEPRSRASKIRVHSRGNLWATGHFMGKKSLEPSSPSPLG  
 TATHTSLRDQRLQLSHDLLGILLKKALGVLSRPAPQIQEAAGTNTAEMTPIMGQTQQRGLDCAHPGKV  
 LNGTLLMAPSGCKS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_021077

**ORF Size:** 462 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.

**RefSeq:** [NM\\_021077.3](#), [NP\\_066563.2](#)

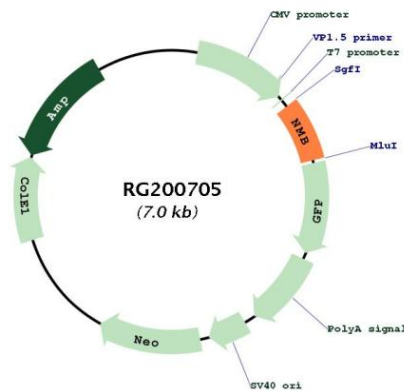
**RefSeq Size:** 1046 bp

**RefSeq ORF:** 366 bp

**Locus ID:** 4828

**UniProt ID:** [P08949](#)  
**Cytogenetics:** 15q25.2  
**Domains:** Bombesin  
**Protein Families:** Secreted Protein, Transmembrane  
**Gene Summary:** This gene encodes a member of the bombesin-like family of neuropeptides, which negatively regulate eating behavior. The encoded protein may regulate colonic smooth muscle contraction through binding to its cognate receptor, the neuromedin B receptor (NMBR). Polymorphisms of this gene may be associated with hunger, weight gain and obesity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2015]

**Product images:**



Circular map for RG200705