

## Product datasheet for SC113025

### Neuromedin B (NMB) (NM\_021077) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuromedin B (NMB) (NM_021077) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuromedin B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113025 sequence for NM_021077 edited (data generated by NextGen Sequencing)

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ATGGCCCCGGCGGGGGGGCGCTCGGATGTTCCGGCAGCCTCCTGCTCTTCGCCCTGCTC
GCTGCCGGCGTCGCCCGCTCAGCTGGGATCTCCCGGAGCCCCGAGCCGAGCCAGCAAG
ATCCGAGTGCACCTCGCGAGGCAACCTCTGGGCCACCGGTCACTTATGGGCAAGAAGAGT
CTGGAGCCTTCCAGCCATCCCCATTGGGGACAGCTCCCCACACCTCCCTGAGGGACCAG
CGACTGCAGCTGAGTCATGATCTGCTCGGAATCCTCCTGCTAAAGAAGGCTCTGGGCGTG
AGCCTCAGCCGCCCGCACCCCAAATCCAGTACAGGAGGCTGCTGGTACAAATACTGCAG
AAATGA
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Clone variation with respect to NM\_021077.3

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_021077 unedited
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NTTGTCAGAAATTTGTATACGACTCATATAGGCGGCCGCGNAATCGGCACGAGGGTCTCTG
GGCGGCCCAAGGGGGTGCCTTGCCTGGTAACCTAGCGGGAGGGTGGGGACGGCGGGGAG
GGCGGGCGGGCGGGGGCACGGCTCCGCTGCTCAGGGCAGGCTCCGCCCCAGGGGCGGG
ACTTAAAAGGATCGAAGGCAGCCCCGGAGCCCAGCGGCCGGGAAGCGGCCCGAACGAAG
CCGCGGCCCGGGCACAGCCATGGCCCCGGCGGGGGGGCGCTCGGATGTTCCGGCAGCCT
CCTGCTCTTCGCCCTGCTCGCTGCGCGGCTCGCCCCGCTCAGCTGGGATCTCCCGGAGCC
CCGCAGCCGAGCCAGCAAGATCCGAGTGCACCTCGCGAGGCAACCTCTGGGCCACCGGTCA
CTTACGGGCAAGAAGAGTCTGGAGCCTTCCAGCCATCCCCATTGGGGACAGCTCCCCA
CACCTCCCTGAGGGACCAGGACTGCAGCTGAGTCATGATCTGCTCGGAATCCTCCTGCT
AAAGAAGGCTCTGGGCGTGAGCCTCAGCCGCCCGCACCCCAAATCCAGTACAGGAGGCT
GCTGGTACAAATACTGCAGAAATGACACCAATAATGGGGCAGACACAACAGCGTGGCTTA
GATTGTGCCACCCAGGGAAGGTGCTGAATGGGACCCTGTTGATGGCCCCATCTGGATGT
AAATCCTGAGCTCANATCTCTGTTACTCCATTACTGTGATTTCTGGCTGGGTCACTAGA
ATATCGCTGATGCAGACAGATTATGTTCTGCTGATTTCTGCTTCCCTGTTGAATT
GGTGAATAAAACCTTGCTCTTACATAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGG
```



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_021077 unedited GCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTATGTAAAGAGCAAGGTTTTATTACC AATTCAACAGGNGAAGCAGGAAATACAGCAGGAACATAATCTGTGTCTGCATCAGCGATA TTTCTGGTGACCCAGCCAGAAATCACAGTAATGGAGTAACAGAGATTTGAGCTCAGGATT TACATCCAGATGGGGCCATCAACAGGGTCCCATTACAGCACCTTCCCTGGGTGGGCACAAT CTAAGCCACGCTGTTGTGTCTGCCCCATTATTGGTGTCAATTTCTGCAGTATTTGTACCAG CAGCCTCTGTACTGGATTTGGGGTGCGGNGCGGCTGAGGCTCAGCCCCAGAGCCTTCTT TAGCAGGAGGATTCCGAGCAGATCATGACTCAGCTGCAGTCGCTGGTCCCTCAGGGAGGT GTGGGGAGCTGTCCCAATGGGGATGGGCTGGAAGGCTCCAGACTCTTCTTGCCCATGAA GTGACCGGTGGCCAGAGGTTGCCTCGCGAGTGCCTNCGATCTTGCTGGCTCGGCTGCG GNGCTCCGGGAGATCCCAGCTGAGCGNGCGACGCCGGCAGCGAGCAGGGCGAAGAGCAG GAGGCTGCCGAATCCCAGCGCCCCCGCCCGGCCATGGNCTGTCCCCGGGGCCG CNGGCTTNCGTTCCGGGCGCGCTTCCCGGGCCGCTGGGCTTCCGGNGCTGCCTTNCGATC CTTTAAATCCGCGCCCTGNGGGCGGAGCTGCCCTGACAGNAGCCTGNCCCNGGGCC CGNGGGCCTTCCGGGGGTCCCACCTTTTGGTTAGGTACCCAGCAGGGGCACCCCTTTGG GCCGCCAAGACCCTCTGCCGATTCCGGGCGCCTTTAGTGAGTCGTATACAAAATTTGA CGTTACTAAACGAGCTCTGCTTATTAGACCTCCACGTACACGCTACCGCCATTTGCGT ACGGGGCGGGTTATACGAATTTGGAAAGCCCGTAATTTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021077
<b>Insert Size:</b>	860 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_021077.3</a> , <a href="#">NP_066563.2</a>
<b>RefSeq Size:</b>	1046 bp
<b>RefSeq ORF:</b>	366 bp
<b>Locus ID:</b>	4828
<b>UniProt ID:</b>	<a href="#">P08949</a>
<b>Cytogenetics:</b>	15q25.2
<b>Domains:</b>	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]  
Transcript Variant: This variant (1) represents the longer transcript but encodes the shorter isoform (1).