

Product datasheet for **RG213319**

NMBR (NM_002511) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NMBR
Synonyms:	BB1; BB1R; BRS1; NMB-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG213319 representing NM_002511
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCTCTAAGTCTCTTTCCAACCTCTCGGTGACCACCGCGCGAATGAGAGCGGTTCCGTTCCCGAGG
GGTGGGAAAGGATTTCCTGCCGGCTCGGACGGGACCACACGGAGTTGGTGATCCGCTGTGTGATCCC
GTCCCTCTACCTGCTCATCATCACCCTGGGCTTGTGGGCAACATCATGCTGGTGAAGATCTTCATCACC
AACAGCGCCATGAGGAGCGTCCCCAACATCTCATCTAACCTGGCGGCCGGGACTTGTGCTGCTGC
TCACCTGCGTCCCGGTGGACGCTCGCGTACTTCTTCGACGAGTGGATGTTTGGCAAGGTGGGCTGCAA
ACTGATCCCTGTATCCAGCTCACTTCCGTGGGGTTTCCGTGTTCACTCTCACTGCCCTCAGCGCCGAC
AGGTACAGAGCCATCGTTAACCCCATGGACATGCAGACGTCAGGGGCAATTGCTGCGGACCTGTGAAGG
CCATGGGTATCTGGTGGTCTCCGTGTTGCTGGCAGTCCCGAAGCGGTGTTTTCAGAAGTGGCTCGCAT
CAGTAGCTTGGATAATAGCAGCTTCACAGCATGTATCCCATACCCTCAAACAGATGAATTACATCCAAAG
ATTCATTCACTGCTCATTTTCTTGGTCTATTTCTCATACCACTTGTCTATTATTAGCATTTATTATTATC
ATATTGCAAAGACCTTAATTAAGCGCACACAATCTTCCTGGAGAATAACAATGAACATACCAAAAAACA
GATGGAACACGGAACGCTGGCTAAAATTGTGCTTGTCTTTGTGGGCTGTTTCATCTTCTGTTGGTTT
CCAAACACATCCTTTACATGTATCGGTCTTTCACTATAATGAGATTGATCCATCTCTAGGCCACATGA
TTGTACCTTTAGTTGCCCGGGTCTCAGTTTGGCAATTCTGTGTCAACCCATTTGCTCTTTACCTACT
CAGTGAAGCTTCAGGAGGCATTTCAACAGCCAACCTCTGCTGTGGGAGGAAGTCTATCAAGAGAGAGGA
ACGAGTACCTACTCAGCTCTCAGCGGTGCGTATGACATCTCTGAAAAGCAATGCTAAGAACATGGTGA
CCAATTCTGTTTACTAAATGGGCACAGCATGAAGCAGGAAATGGCAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



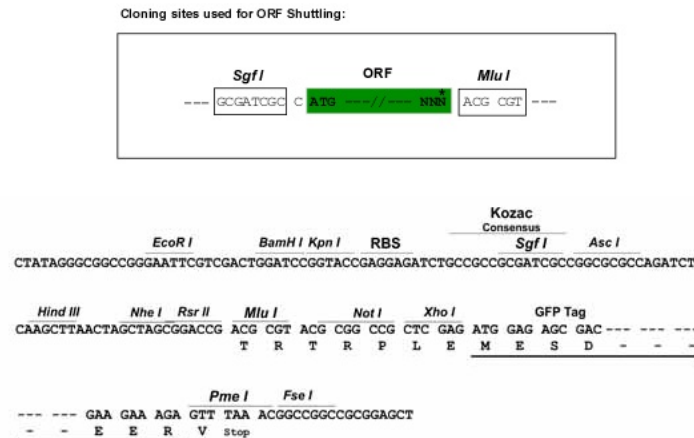
Protein Sequence: >RG213319 representing NM_002511
Red=Cloning site Green=Tags(s)

MPSKSLSNLSVTTGANESGSVPEGWERDFLPASDGTTELIVRCVIPSLLYLLIITVGLLGNIMLVKIFIT
NSAMRSVPNIFISNLAAGDLLLLTCVPVDASRYFFDEWMFGKVGCKLIPVIQLTSVGVSVFTLTALSAD
RYRAIVNPMQMSTGALLRTCVKAMGIWVSVLLAVPEAVFSEVARISLNDSSFTACIPYPQTDDELHPK
IHSVLIFLVYFLIPLAIIISIIYYHIAKTLIKSAHNLPGYNEHTKKQMETRKLAKIVLVFVGCIFCWF
PNHILYMYRSFNYNEIDPSLGHMIVTLVARVLSFGNSCVNPFALYLLSESFRHFNSQLCCGRKSYQERG
TSYLLSSSAVRMTSLKSNKMNMTNSVLLNGHSMKQEMAM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002511

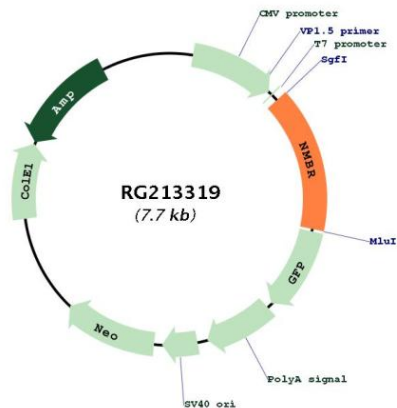
ORF Size: 1170 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_002511.1</u> , <u>NP_002502.1</u>
RefSeq Size:	1352 bp
RefSeq ORF:	1173 bp
Locus ID:	4829
UniProt ID:	<u>P28336</u>
Cytogenetics:	6q24.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes a 7-transmembrane G protein-coupled receptor that binds neuromedin B, which is a growth factor and mitogen for gastrointestinal epithelial tissue and for normal and neoplastic lung. This receptor may play a role in smooth muscle contraction, neuronal responses, and the regulation of cell growth. Antagonists of this receptor have a potential therapeutic use in inhibiting tumor cell growth. Polymorphisms in this gene may be associated with a susceptibility for schizophrenia. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2016]

Product images:



Circular map for RG213319