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Product datasheet for SC118568

NMBR (NM_002511) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NMBR (NM_002511) Human Untagged Clone
Tag:	Tag Free
Symbol:	NMBR
Synonyms:	BB1; BB1R; BRS1; NMB-R
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_002511 edited
GGCTTGCCCCGCGGACAGTAAACTTGCAGGGGCGAGAGGGAGGGACATCGATTAAACCTA
AATCGTGGGCGTTCAGTCCTCAGGGCACCGGAGCGCGTGAAAACTCCAGCGGACTCTGCT
GGAAAGGAGATCATGCCCTCTAAGTCTCTTTCCAACCTCTCGGTGACCACCGGCGCGAAT
GAGAGCGGTTCCGTTCCCGAGGGGTGGGAAAGGGATTTCCTGCCGGCCTCGGACGGGACC
ACCACGGAGTTGGTGATCCGCTGTGTGATCCCGTCCCTCTACCTGCTCATCATCACCGTG
GGCTTGCTGGGCAACATCATGCTGGTGAAGATCTTCATCACCAACAGCGCCATGAGGAGC
GTCCCCAACATCTTCATCTCTAACCTGGCGGCCGGGGACTTGCTGCTGCTGCTCACCTGC
GTCCCGGTGGACGCCTCGCGCTACTTCTTCGACGAGTGGATGTTTGGCAAGGTGGGCTGC
AAACTGATCCCTGTCATCCAGCTCACTTCCGTGGGGGTTTCCGTGTTCACTCTCACTGCC
CTCAGCGCCGACAGGTACAGAGCCATCGTTAACCCCATGGACATGCAGACGTCAGGGGCA
TTGCTGCGGACCTGTGTGAAGGCCATGGGTATCTGGGTGGTCTCCGTGTTGCTGGCAGTT
CCCGAAGCGGTGTTTTCAGAAGTGGCTCGCATCAGTAGCTTGGATAATAGCAGCTTCACA
GCATGTATCCCATACCCTCAAACAGATGAATTACATCCAAAGATTCATTCAGTGCTCATT
TTCTTGGTCTATTTCCTCATACCACTTGCTATTATTAGCATTTATTATTATCATATTGCA
AAGACCTTAATTAAAAGCGCACACAATCTTCCTGGAGAATACAATGAACATACCAAAAAA
CAGATGGAAACACGGAAACGCCTGGCTAAAATTGTGCTTGTCTTTGTGGGCTGTTTCATC
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TCTTGTGTCAACCCATTTGCTCTTTACCTACTCAGTGAAAGCTTCAGGAGGCATTTCAAT
AGCCAACTCTGCTGTGGGAGGAAGTCCTATCAAGAGAGAGGAACCAGCTACCTACTCAGC
TCTTCAGCGGTGCGTATGACATCTCTGAAAAGCAATGCTAAGAACATGGTGACCAATTCT
GTTTTACTAAATGGGCACAGCATGAAGCAGGAAATGGCACTGTGATTTTGGCCATTCAAC
TCACTACCTGGAGAGAACTTAGTAACTGTTAAAATTCCTATTCGGCAGATCAGAACTTGC
TGTTGCTTAGCTAATTTATTAGGCAATTGCATGATTGACTCAGAAAATGCAAGACATTTT
TTCTCTACACTAGACTTTATTTTTTCTCTTTTCATTTCCTAATAATTAGAATATGAGAAA
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TGTATAATTTAACATTGCTTTAGTATTTAGGCTGTTGCTAAAGCCAGTTCTAGCATATTT
GTCTTAGGTTTTGTTTTATCTTGAAGCATGAAATAAATTTCTATATTGACTCAATGATTC
AGTGAGGGTAATATTCAAACTCCTATTATTTGAAATACAAGTCAGATTGTCCTGGTGAAT
TTCATTCAATTCACAACTATTGCATGAGTGTGTGTGTGTGTGTGTATATATATATGTATA
TGTATATATGTACACACACACACGTCCTTCATTTTAAGAAAATAAGAAAAAATTCAAAGG
TGGAGCTTAATCAAATTGGTATTTATTGTGATTCTGTGATTAATCATAATTTATAGAAAT
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GAATATGATTTACATTATGAATGTAAAATAGGTATCATATGTCCCAAATTGCAAAGCTAC
AACTCACAAGTTTGCATGGCCATCTTAGTATACATTGCTAAATCCTGGAATATTTGGATG
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TCTCTTGCAATACCCAACTGACAAGTATGTGGGATCACACTTAGGCAATTTTTTTCTGCT
TTTCCTGCATGATACCACAGTTTTCTCTGAATAAATGTCTTCTTTTTTTAGGAAAATGCA
AATGTATTGATTACAGTTTAAAAGCTACCTTTTTAAAAGCATGTATCAATAATCTAAACA
TTTAAATCAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002511 unedited
CCCCACCCAATTTGNGGATTTNTGTNAACACGAACTTCATTTGNAGGGCTGGCCGCGCAA
TTCGGCACCAGGGACTTGCTCCCGCGGAACAGTAAACTTGCAGGGGCGAGAGGGAGGGAC
ATCGATTAAACCTAAATCGTGGGCGTTCAGTCCTCAGGGCACCGGAGCGCGTGAAAACTC
CAGCGGACTCTGCTGGAAAGGAGATCATGCCCTCTAAGTCTCTTTCCAACCTCTCGGTGA
CCACCGGCGCGAATGAGAGCGGTTCCGTTCCCGAGGGGTGGGAAAGGGATTTCCTGCCGG
CCTCGGACGGGACCACCACGGAGTTGGTGATCCGCTGTGTGATCCCGTCCCTCTACCTGC
TCATCATCACCGTGGGCTTGCTGGGCAACATCATGCTGGTGAAGATCTTCATCACCAACA
GCGCCATGAGGAGCGTCCTCTACATCTTCATCTCTCACCTGNCGGCCCGGNGACTTGCTG
CTGCTGCTCACCTGCGTCCCGGTGGACGCCTTGCGCTACTTCATCGACGAGTGGATGTTT
GGCACGGTGGGCTGCAAACTGATCCCTGTCATCCAGCTCACTTCCGTGGGGGATATCGGG
TTCACTTTAACTGCCCTAAGCGCCGACGGTACCAGACCATCGTTAACCCCTGGACATTCC
AACGTCCGGGGCATTGTTTGGGACTTTTGTAAAGGCAGGGGTAACTGGGGGGGCCTCCGG
GTTGCTGGGCAATCCCCAAACGGGGTTTTCAAAAGGGCCTTCCAATAAAAACTTTGGAAA
AAAACCACTTTCCCCGCATGGGATCCTTCCCTTTTAAACGGAGGAAATAACCCCCAAAAA
ATTTTTCCGGGGCATATTTTTTGGGGATAATTTCTTCACACACCTGGTTATATAAAACAC
ATATATT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002511 unedited
GGGGCATCCTGTGANACCACGGCTCGATTTTNAGGANCGNGNTTTTTTTTTTTTTTTTTT
TGATTTAAATGTTTAGATTATTGATACATGCTTTTAAAAAGGTAGCTTTTAAACTGTAAT
CAATACATTTGCATTTTCCTAAAAAAAGAAGACATTTATTCAGAGAAAACTGTGGTATCA
TGCAGGAAAAGCAGAAAAAAATTGCCTAAGTGTGATCCCACATACTTGTCAGTTGGGTAT
TGCAAGAGAGGATGAGTAAATGGTTGAACTCACTGGAATTACACAAATCTTATCACATCT
ATACACAATCATCCAAATATTCCAGGATTTAGCAATGTATACTAAGATGGCCATGCAAAC
TTGTGAGTTGTAGCTTTGCAATTTGGGACATATGATACCTATTTTACATTCATAATGTAA
ATCATATTCATATGATACCTATTTTACATTCATAATATAAATTATATTCATATCATATCT
ATTTTATAATTCATAATATTAATTTCATTATATCTGTTAATCACATACTTAGAATTACAG
ATATGAATTATTTCTATAAATTATGATTAATCACAGAATCACAATAAATACCAATTTGAT
TAAGCTCCACCTTTGAATTTTTTCTTATTTTCTTAAAATGAAGGACGTGTGTGTGTGTAC
ATATATACATATACATATATATATACACACACACACACACACTCATGCAATAGTTGTGAA
TTGAATGAAATTCCCCAGGACAATCTGACTTGTATTTCAAATAATAGGAGTTTGAATATT
ACCCTCACTGAATCATTGAGTCAATATAGAACATTATTTCATGCTTTCAGAAAAACAAAC
CTAAGACAATATGCTACAACTGGCTTTACCACAGCCTAAATCTAAAGCATGTTAACTATA
CTATTGCATGGCTTGGGAACCACCTCACGT

Restriction Sites: NotI-NotI

ACCN: NM_002511

Insert Size: 2500 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_002511.1, NP_002502.1
RefSeq Size:	1352 bp
RefSeq ORF:	1173 bp
Locus ID:	4829
UniProt ID:	P28336
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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.