

Product datasheet for RN211899

Nmur2 (NM_022275) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nmur2 (NM_022275) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nmur2
Synonyms:	FM-4; Nmu2r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RN211899 representing NM_022275. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAAAACCTGAAAATGCTTCTGGATCCACGATCCTCTCATGAAGTACTTGAACAGCACAGAGGAG
TACTTGGCCACCTGTGTGGACCAAGCGCAGTGACCTATCCCTTCCGGTGTCTGTGGCCTATGCGCTG
ATCTTCTGGTGGGGTAAATGGCAATCTTCTGGTGTGCATGGTATTGTCGACATCAGACTTTGAAG
ACACCCACCAACTACTATCTCTTACGTTGGCAGTCTCAGATCTGCTGGTCTGCTTTGGGGATGCCT
CTGGAAATCTACGAGATGTGGCACAATTACCCTTCTGTTCCGGCCTGTGGGATGCTACTTCAAGACA
GCCCTTTCGAGACTGTGTGCTTTGCCCTCATTCTCAGTGTACCACGGTTAGCGTAGAGCGCTATGTG
GCCATTGTCCACCCTTTCGAGCCAAGCTGGAGAGCACGCGGCGACGGGCCCTCAGGATCCTCAGCCTA
GTCTGGAGCTTCTGTGGTCTTTCTTTGCCAATACCAGCATCCATGGCATCAAGTTCAGCACTTT
CCCAACGGGTCCCTCCGTACCTGGCTCAGCCACCTGCACAGTACCACCAACCCATGTGGGTGTATAACTTG
ATCATCCAAGCTACCAGCTTCTCTTACATCCTCCCAATGACCCTCATCAGCGTCTCTACTACCTC
ATGGGGCTCAGGCTGAAGAGAGATGAATCCCTTGAGGCGAACAAGTGGCTGTGAATATTCACAGACCC
TCTAGAAAGTCAGTCACCAAGATGCTGTTGTCTTGGTCTCGTGTGGCCATCTGCTGGACCCCTTC
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ATCCATGTGGTATCAGGTGCTTCTTTATCTGAGCTCCGCGGTCAACCCATTATCTATAACCTCCTG
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CGGCCACAGGGACCTCCAGCCCAGAAGATCATCTTCTTACAGAAATGTACCTCGTGAGAGTGCAGAG
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GGAGAGGTACCAATAA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Protein Sequence: MGKLENASWIHDPLMKYLNSTEEYLAHLCPKRSDSLSPVSVAYALIFLVGMGNLLVCMVIVRHQTLK
 TPTNYYLFLSLAVSDLLVLLLGMPLEIYEMWHNYPFLLFGPVGCFYKALFETVCFASILSVTTVSVERYV
 AIVHPFRKLESTRRRALRILSLVWSFSVVFSLPNTSIHGKQHFHPNGSSVPGSATCTVTKPMWVYNL
 IIQATSFLFYILPMTLISVLYLMLRLKRDESLEANKVAVNIHRPSRKSVTKMLFVLVLFVAICWTFP
 HVDRLFVFSVVEEWTESLAAVFNLIHVVSQVFFYLSAVNPIIYNLLSRRFRAAFRNVVSPCKWCHPRH
 RPQGPPAQKIIFLTECHLVELTEDAGPQFPQSSIHNTLTTAPCAGEVP*
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Fully Sequenced ORF: >RN211899 representing NM_022275
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGGAAAACCTGAAAATGCTTCTCGATCCACGATCCACTCATGAAGTACTTGAACAGCACAGAGGAGT
 ACTTGGCCACCTGTGTGGACCAAGCGCAGTGACCTATCCCTTCGGGTGTCTGTGGCCTATGCGCTGAT
 CTTCTGGTGGGGTAATGGGCAATCTTCTGGTGTGCATGGTATTGTCCGACATCAGACTTTGAAGACA
 CCCACCACTACTATCTTTCAGCTTGGCAGTCTCAGATCTGCTGGTCTGCTCTTGGGGATGCCTCTGG
 AAATCTACGAGATGTGGCACAATTACCCTTTCCTGTTCCGGCCTGTGGGATGCTACTTCAAGACAGCCCT
 CTTGAGACTGTGTGCTTTCCTCCATTCTCAGTGTACCACGGTTAGCGTAGAGCGCTATGTGGCCATT
 GTCCACCCTTTCGAGCCAAGCTGGAGAGCACGGCGACGGCCCTCAGGATCCTCAGCCTAGTCTGGA
 GCTTCTGTGGTCTTTCTTTGCCAATACCAGCATCCATGGCATCAAGTTCAGCACTTCCCAACGG
 GTCCCTCGTACCTGGCTCAGCCACTGCACAGTACCAAACCCATGTGGGTGTATAACTTGATCATCCAA
 GCTACCAGCTTCTCTTCTACATCCTCCAATGACCCTCATCAGCGTCTCTACTACCTCATGGGGCTCA
 GGCTGAAGAGAGATGAATCCCTTGAGGGCAACAAAGTGGCTGTGAATATTCACAGACCCTCTAGAAAAGT
 AGTCACCAAGATGCTGTTTGTCTTGGTCTCGTGTGGCCATCTGCTGGACCCCTTCCATGTGGACCGG
 CTCTTCTCAGCTTTGTGGAAGAGTGGACAGAGTCCCTGGCTGCTGTGTTCAACCTCATCCATGTGGTAT
 CAGGTGTCTTCTTTATCTGAGCTCCGCGGTCAACCCATTATCTATAACCTCCTGTCTCGGCGCTCCG
 GGCGCCCTTCGAAATGTTGTCTCCCTACCTGCAAATGGTGCCATCCCCGGCATCAGCCACAGGGACCT
 CCAGCCCAGAAGATCATCTTCTTGACAGAATGTACCTCATGGAGCTGACAGAGGATGACGGCCCCAGT
 TCCTGGTCAGTCATCCATCCACAACCAACCTTACCATGGCCCCCTGTGCGGGAGAGGTACCA TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1780_d03.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_022275

Insert Size: 1188 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](#)

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_022275.2](#)

RefSeq Size: 3320 bp

RefSeq ORF: 1188 bp

Locus ID: 64042

UniProt ID: [Q9ESQ4](#)

Cytogenetics: 10q22

MW: 44.7 kDa

Gene Summary: receptor for the Nmu neuropeptide involved in the central control of feeding [RGD, Feb 2006]