

## Product datasheet for MR201529

### Npm3 (BC048491) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Npm3 (BC048491) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Npm3  
**Synonyms:** Nub1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201529 representing BC048491  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCCGGCGCGGGCTGCTTTAGCGTCTTGAACCAAGAGAGCCGAGCCCGAGCTGGGGCGTGC  
GGGGCTGAGGGTCCCGGCCCGGTCAATGGACAGTTCTTCTCGTTGTGAGCTCTCCGGCCACAC  
CCGCTCCTTCAAGTTGAGGAGGAGGATGACACGGAGCAGTGTGGCCTTGAACATGCTGTGC  
CTTACCGAGGGGCCACGACGAGTGAATGTGGTGAAGTTGTGGCCCGGATCAGACAATCAGGAGA  
TTGCAGTTCCTGTGGCAACCTCAGTTGTCTGCCAGCCATGCTCAGTGTGGATGATTCCAACCTCA  
ACCACCTGTACCTTCCGCTGAAGTCCGTTCTGGCCAGTTCCGGATCACTGGCCGGCATCAGATCGTT  
TGTATAACAACGACCTTCTGAAGAAGAAAGTGATGAGAGCGAAGAAGATGAAATTAAGCTGTGTG  
GCATCCTTCTGCCAAGAAGCACAGGGGAGGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201529 representing BC048491  
 Red=Cloning site Green=Tags(s)

MAGAAAALAFLNQESRARAGGVGGLRVPAPVTMDSFFFGCELSGHTRSFTFKVEEEDDTEHVLALNMLC  
LTEGATDECNVVEVVARHDHNDQEIAPVANLRLSCQPMLSVDDFQLQPPVTFRLKSGSGPVRITGRHQIV  
CINNDLSEESDDESEDEIKLCGILPAKKHRGRP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



Cloning Scheme:



ACCN: BC048491

ORF Size: 525 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: [BC048491.1](#)

RefSeq Size: 793 bp

RefSeq ORF: 527 bp

Locus ID: 18150

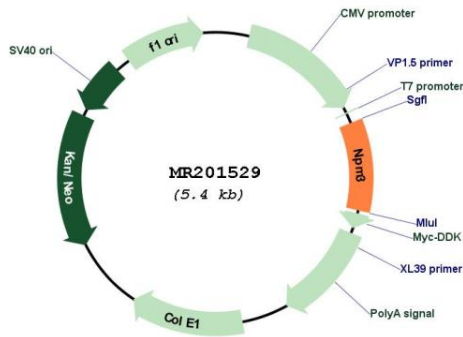
Cytogenetics: 19 38.75 cM

MW: 29 kDa

**Gene Summary:**

Plays a role in the regulation of diverse cellular processes such as ribosome biogenesis, chromatin remodeling or protein chaperoning. Modulates the histone chaperone function and the RNA-binding activity of nucleolar phosphoprotein B23/NPM. Efficiently mediates chromatin remodeling when included in a pentamer containing NPM3 and NPM. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201529