

## Product datasheet for MR201916

### Nmrk1 (NM\_145497) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nmrk1 (NM\_145497) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nmrk1  
**Synonyms:** AA408380; D630020N23Rik; Nr1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201916 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGAGATTTGTCATTGGAATTGGTGGTGTGACAAACGGAGGGAAGACGACACTGGCTAAGAGCTTGC  
 AGAAGCACCTTCCCACTGCAGCGTCATATCTCAGGATGACTTCTCAAGCCAGAGTCTGAGATAGACAT  
 AGATGAAAATGGTTTTTGCAGTATGATGTGCTTGAAGCGCTAAATATGGAAAAATGATGTCAGCAGTT  
 TCCTGTTGGATGGAAAACCCAGGAAGCTCTGCGGGACCAGCAGCCTTGGAAAGTGTCAAGGGTCCCA  
 TTTAATTATTGAAGTTTCCTTCTTTAATTATAAGCCTCTGGACACCATATGGAACAGAAGTACTT  
 CCTGACCGTTCCATATGAAGAATGTAAGAGGAGAAGGAGTACCAGAGTATATGAGCCTCCAGACCTCCA  
 GGGTACTTCGATGGCCACGTGTGCCCATGTACCTAAAGCACAGACAGGAAATGAGCTCCATCACCTGGG  
 ACATTGTTACCTGGATGGAACAAGGTCTGAAGAGGACCTTCTCTCAGGTGTATGAAGATGTCAAGCA  
 GGAAGTAGAGAAGCAAAATGGTTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201916 protein sequence  
 Red=Cloning site Green=Tags(s)

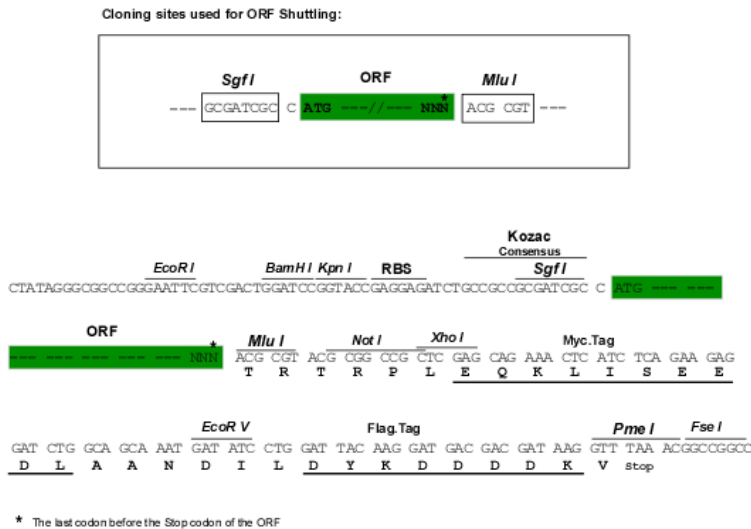
MKRFVIGIGVVTNGGKTTLAKSLQKHLPNCSVISQDDFFKPESEIDIDENGFLQYDVLEALNMEKMMSAV  
 SCWMENPGSSAGPAALESAQGVPIIIEGFLLFNYKPLDTIWNRSYFLTPYEECKRRRSTRVYEPDPP  
 GYFDGHVWPMYLRKHEMSSITWDIVYLDGTRSEEDLFSQVYEDVKQELEKQNGL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM\_145497

ORF Size: 588 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: [NM\\_145497.2](#), [NP\\_663472.1](#)

RefSeq Size: 1637 bp

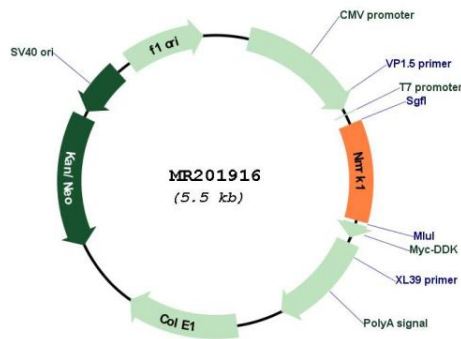
RefSeq ORF: 588 bp

Locus ID: 225994

UniProt ID: [Q91W63](#)

**Cytogenetics:** 19 B  
**MW:** 22.3 kDa  
**Gene Summary:** Catalyzes the phosphorylation of nicotinamide riboside (NR) and nicotinic acid riboside (NaR) to form nicotinamide mononucleotide (NMN) and nicotinic acid mononucleotide (NaMN).  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201916