

Product datasheet for **RR215522**

Nmrk1 (NM_001024292) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nmrk1 (NM_001024292) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nmrk1
Synonyms: Nrk1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215522 representing NM_001024292
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGACATTTGTCATTGGAATTGGTGGTGTGACAAATGGAGGGAAGACAACACTGGCTAAGAACCCTGC
AGAAACGCCTTCCCAACTGCAGCGTAATATCTCAGGACGACTTCTCAAGCCAGAGTCTGAGATAGACAT
AGATGAGAATGGTTTTCTGCAGTATGATGTGCTTGAAGCACTTAACATGGAAAAATGATGTCAGCCGTT
TCCTGTTGGATGGAGAACCAGGAAGCTCTGCGGGCCAGCAGCCTTGGAAAGTGCCTCAAGGGGTTCCCA
TTTTAATTATTGAAGGGTTCCTGCTCTTAATTATAAGCCTCTGGACACCATATGGAACAGAAGCTATT
CCTGACCGTTCCATATGAAGATGTAAGAGAAGGAGGAGTACCAGAGTCTATGAGCCTCCAGACCCTCCA
GGTACTTCGATGGCCACGTGTGGCCATGTACCTGAAGCACAGGCAGGAGATGAACTCCATCACCTGGG
ACATTGTTTACCTGGACGGAACAAGGTCTGAAGAGGACCTCTTCTCCAAGTGTATGAAGATGTCAAGCA
AGAATTGGAGAAGCAAAATGGTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215522 representing NM_001024292
Red=Cloning site Green=Tags(s)

MKTFVIGIGGVTNGGKTTLAKNLQKRLPNCVSIQDDFFKPESEIDIDENGFLQYDVLEALNMEKMMSAV
SCWMENPGSSAGPAALESAQGVPIIIIEGFLLFNYKPLDTIWNRSYFLTPYEECKRRRSTRVYEPDPP
GYFDGHVWPMYLNKHRQEMNSITWDIVYLDGTRSEEDLFSQVYEDVKQELEKQNGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

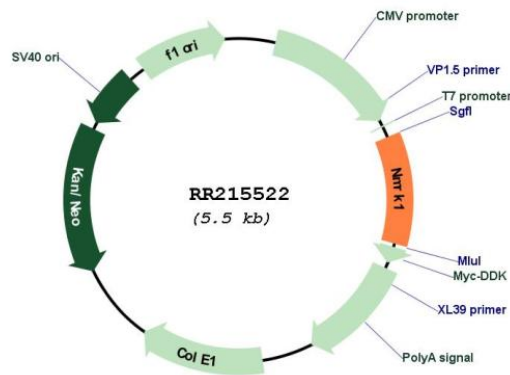


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024292

ORF Size: 585 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_001024292.1](#), [NP_001019463.1](#)

RefSeq Size: 1591 bp

RefSeq ORF: 588 bp

Locus ID: 499330

UniProt ID: [Q6AY91](#)

Cytogenetics: 1q43

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]