

Product datasheet for **RC235948**

NPM2 (NM_001286681) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: NPM2

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC235948 representing NM_001286681
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAATCTCAGTAGCGCCAGTAGCACGGAGGAAAAGGCAGTGACGACCGTGCTCTGGGGCTGCGAGCTCA
GTCAGGAGAGGCGGACTTGGACCTTCAGACCCAGCTGGAGGGGAAGCAGAGCTGCAGGCTGTTGCTTCA
TACGATTTGCTTGGGGGAGAAAGCCAAAGAGGAGATGCATCGCTGGAGATCCTGCCCCAGCAAACAG
GAGGACAAGAAGATGCAGCCGGTCACCATTCCTCACTCCAGGCCTCAGTCCTCCCCATGGTCTCCATGG
TAGGAGTGCAGCTTTCTCCCCAGTTACTTTCCAGCTCCGGGCTGGCTCAGGACCCGTGTTCTCAGTGG
CCAGGAACGTTATGAAAAAAGCTGGAAAAGAAGAAGAGGAAATAAGAGCCAGCGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235948 representing NM_001286681
Red=Cloning site Green=Tags(s)

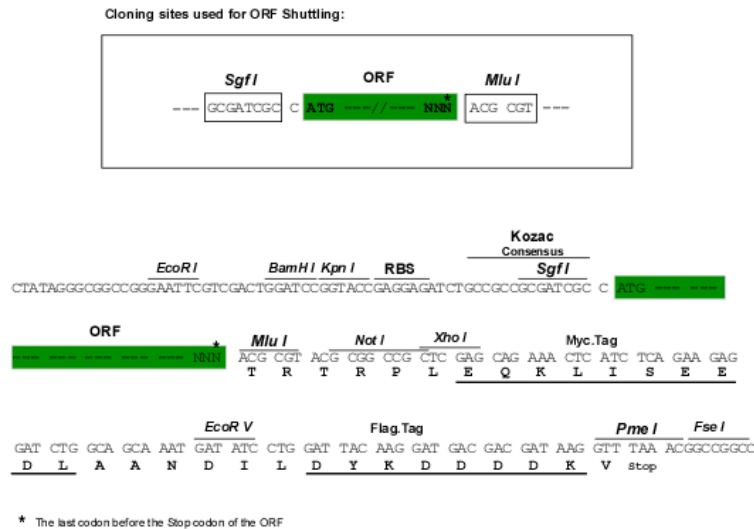
MNLSSASSTEEKAVTTVLWGCELSQERRTWTFRPQLEGKQSCRLLHTICLGEKAKEEMHRVEILPPANQ
EDKKMQPVTIASLQASVLPVMVMGVQLSPPVTFQLRAGSGPVFLSGQERYEKKAGKRRRGNKSSQR

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001286681

ORF Size: 408 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](#)

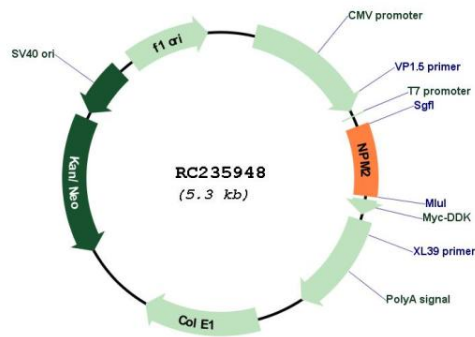
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001286681.1, NP_001273610.1</u>
RefSeq Size:	958 bp
RefSeq ORF:	411 bp
Locus ID:	10361
UniProt ID:	<u>Q86SE8</u>
Cytogenetics:	8p21.3
MW:	15.7 kDa
Gene Summary:	Core histones chaperone involved in chromatin reprogramming, specially during fertilization and early embryonic development. Probably involved in sperm DNA decondensation during fertilization.[UniProtKB/Swiss-Prot Function]

Product images:

Circular map for RC235948