

Product datasheet for **RG220110**

NPM2 (NM_182795) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NPM2 (NM_182795) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NPM2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220110 representing NM_182795
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATCTCAGTAGCGCCAGTAGCACGGAGGAAAAGGCAGTGACGACCGTGCTCTGGGGCTGCGAGCTCA
GTCAGGAGAGGCGGACTTGGACCTTCAGACCCAGCTGGAGGGGAAGCAGAGCTGCAGGCTGTTGCTTCA
TACGATTTGCTTGGGGGAGAAAGCCAAAGAGGAGATGCATCGCGTGGAGATCCTGCCCCAGCAAACCAG
GAGGACAAGAAGATGCAGCCGGTCACCATTCCTCACTCCAGGCCTCAGTCCTCCCATGGTCTCCATGG
TAGGAGTGCAGCTTTCTCCCCAGTTACTTTCCAGCTCCGGGCTGGCTCAGGACCCGTGTTCTCCTCAGTGG
CCAGGAACGTTATGAAGCATCAGACCTAACCTGGGAGGAGGAGGAGGAAGAAGAAGGGGAGGAGGAGGAA
GAGGAAGAGGAAGATGATGAGGATGAGGATGCAGATATATCTCTGGAGGAGCAAAGCCCTGTCAAACAAG
TCAAAAGGCTGGTGCCCCAGAAGCAGGCGAGCGTGGCTAAGAAAAAAGCTGGAAAAAGAAGAGGA
AATAAGAGCCAGCGTTAGAGACAAGAGCCCTGTGAAAAAGGCCAAAGCCACAGCCAGAGCCAAGAAGCCA
GGATTCAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220110 representing NM_182795
Red=Cloning site Green=Tags(s)

MNLSSASSTEEKAVTTVLWGCELSQERRTWTFRPQLEGKQSCRLLLTICLGEKAKEEMHRVEILPPANQ
EDKKMQPVTIASLQASVLPVSMVGVQLSPPVTFQLRAGSGPVFLSGQERYEASDLTWEEEEEEEEEEEE
EEEEDEDEDADISLEEQSPVKQVKRLVPQKQASVAKKKKLEKEEEEIRASVRDKSPVKKAKATARAKKP
GFKK

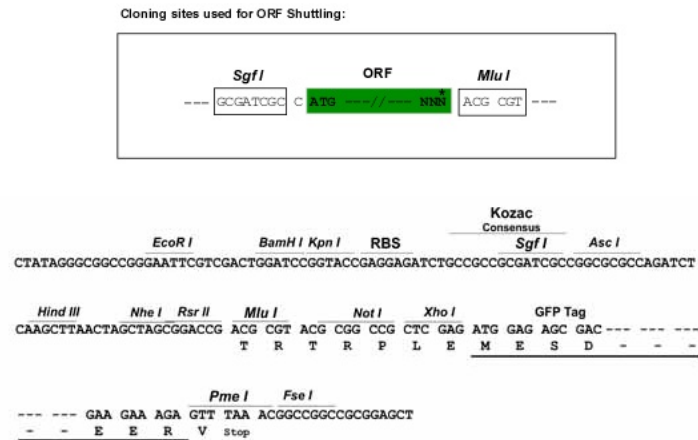
TRTRPLE - GFP Tag - V



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182795

ORF Size: 642 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_182795.1](#), [NP_877724.1](#)

RefSeq Size: 1118 bp

RefSeq ORF: 645 bp

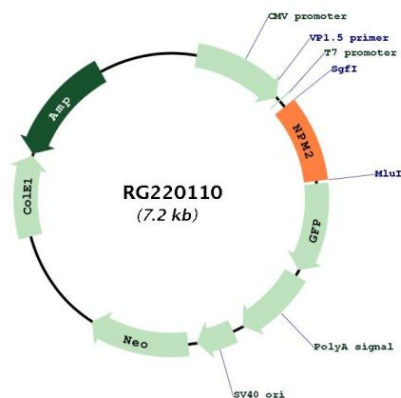
Locus ID: 10361

UniProt ID: [Q86SE8](#)

Cytogenetics: 8p21.3

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 RG220110