

Product datasheet for **RC227099**

NUPR2 (NM_001145712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NUPR2
Synonyms:	NUPRIL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC227099 representing NM_001145712
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGCGCCCGCAGAGCGGGCGCTTCCACGTCTGCAGGCTCTGGCTCGGCCCGCCACCCATAAGCT
ACGAGGAGGAGCTTTACGACTGCCTGGACTACTACTACCTGCGCGACTTCCCGGCTCGGGGCGAGGGCG
CAGCAAGGGCCGACTCGGCGCGAGCAGGCGCTGCGCACCAACTGGCTGCACCTGGCGGGCAGAGCGC
AAGGTCGCGCAGAAGCTCCTCAATGGCCAGCGCAAGCGCCGCCAGCGCCAGCTGCATCCCAAGATGCGCA
CTCGCCTCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227099 representing NM_001145712
Red=Cloning site Green=Tags(s)

MEAPAERALPRLQALARPPPIISYEELDYCLDYLYLRDFPACGAGRSKGRTRREQALRTNWPAPGGHER
KVAQKLLNGQRKRQRQLHPKMRTL

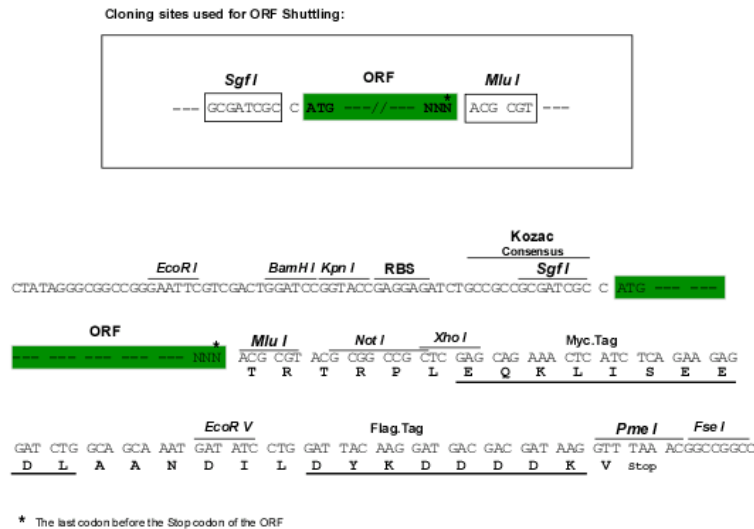
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8032_h10.zip

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001145712

ORF Size: 291 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.

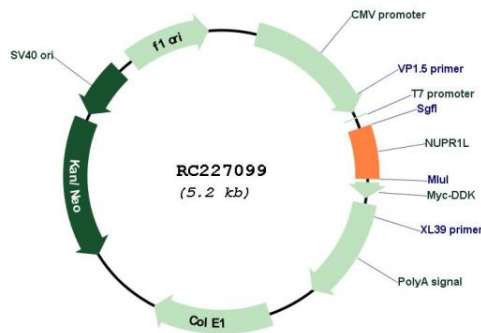
RefSeq: [NM_001145712.2](#)

RefSeq ORF: 294 bp
Locus ID: 389493
UniProt ID: [A6NF83](#)

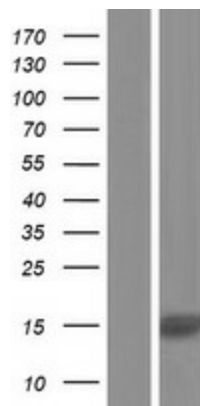
Cytogenetics: 7p11.2
MW: 11.2 kDa

Gene Summary: Acts as a transcriptional repressor by inhibiting gene expression at the NUPR1 promoter in a p53/TP53-dependent manner in cancer cells (PubMed:25899918). Involved in the G1 cell cycle arrest, and in a decrease in cell viability and cell proliferation (PubMed:25899918). Plays a role as a negative regulator of the protumoral factor NUPR1 (PubMed:25899918).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC227099



Western blot validation of overexpression lysate (Cat# [LY428976]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227099 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).