

Product datasheet for **RR209459**

Nubp2 (NM_001011891) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nubp2 (NM_001011891) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nubp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209459 representing NM_001011891 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGCTGCTGCTGAGCCCGAAACCTGGCCGGTGTGCGACATATCATCCTTGTCTTTCTGAAAGG
GAGGCGTTGGGAAAAGCACCATCTCCACGGAGTTGGCCCTGGCGCTGCGCCACCAGGCAAGAAGGTGGG
GATCCTAGATGTGGACCTGTGTGGCCCCAGCATACCACACATGCTCCATGCACAAGGCAAAGCAGTGCAC
CAGTGTGACAGTGGCTGGTGCCTGTCTTTGTGGATCAGGAGCAGAGCATCTCCCTTATGTCTGTGGGCT
TCCTGCTGAAAAACCCTGATGAGGCCGTGGTGTGGAGAGGTCCCAAGAAACATGCACTGATAAAGCAGTT
TGTGTCTGACGTGGCCTGGGGGAGCTGGACTATCTGGTTGTGGACACCCTCCAGGGACTTCTGATGAG
CACATGGCCACGGTGGAAGCACTGCGGCCCTATAAGCCCTTGGGGCTCTTGTGGTACCACACCACAGG
CCGTGTCTATTGGGGACGTGAGGCGGGAGCTGACCTTCTGTAAGAAGACTGGGCTGCAGGTGATAGGGGT
CATAGAGAACATGAGCGGCTTCGCTGCCCGCACTGCGCTGAGTGCACCAATGTCTTCTCCAGCGGGCGT
GGGGAGGAGCTGGCCCGCTGGCTGGCGTTCCTTTTTAGGTTCTGTTCCCTGGATCCCAGCTTACCA
GGAGCTTGAGGAGGGGGCTGACTTCATCCAGGAATTTCCAAAAGCACCGCATATTCGCACTCACATC
CATAGCTCATAAAGTTCTGCACCAGATGCCTGCTGTGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

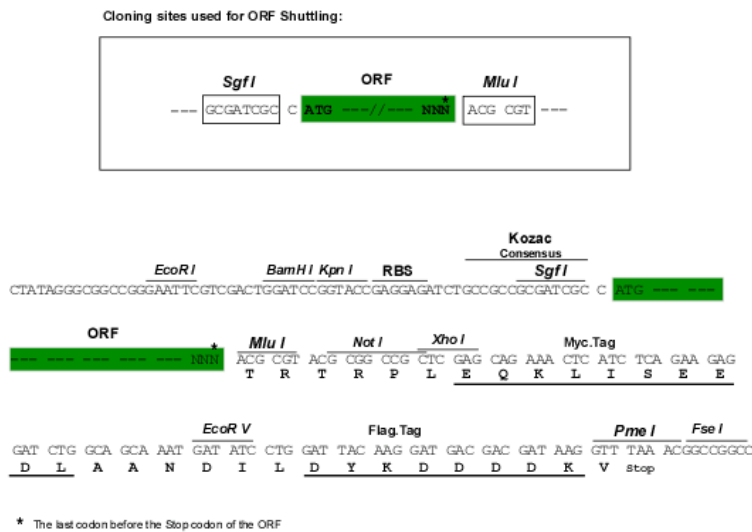
Protein Sequence: >RR209459 representing NM_001011891
Red=Cloning site Green=Tags(s)

MEAAAEPGNLAGVRHIIIVLSGKGGVKGSTISTELALALRHQKKVGI LDVDLCGPSIPHMLHAQ GKAVH
 QCDSGWVPVFDQEQSISLSMSVGFLL ENPDEAVVWRGPKKHALIKQFVSDVAWGELDYLVVDTPPGTSDE
 HMATVEALRPYKPLGALVVTTPQAVSIGDVRRELTFCCKTGLQVIGVIENMSGFACPHCAECTNVFSSGG
 GEELARLAGVPFLGSVPLDPQLTRSLEEGRDFIQEFPKSTAYSALTSIAHKVLHQMPALCS

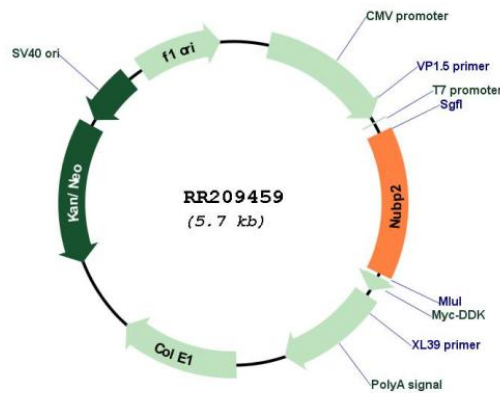
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001011891

ORF Size: 813 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:	<ol style="list-style-type: none"> 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_001011891.1 , NP_001011891.1
RefSeq Size:	1420 bp
RefSeq ORF:	816 bp
Locus ID:	287125
UniProt ID:	Q68FS1
Cytogenetics:	10q12
MW:	28.9 kDa
Gene Summary:	Component of the cytosolic iron-sulfur (Fe/S) protein assembly (CIA) machinery. Required for maturation of extramitochondrial Fe-S proteins. The NUBP1-NUBP2 heterotetramer forms a Fe-S scaffold complex, mediating the de novo assembly of an Fe-S cluster and its transfer to target apoproteins. Negatively regulates cilium formation and structure.[UniProtKB/Swiss-Prot Function]