

## Product datasheet for MR203686

### Nubp2 (NM\_011956) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nubp2 (NM_011956) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nubp2
Synonyms:	D17Wsu11e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203686 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGCTGCTGCCGGTGAGCGTGCAGAACCCGGGAACCTGGCCGGGTGCGACACATCATCCTTGTTCT  
TTTCTGAAAAGGGTGGCCTTGGGAAAAGCACCATCTCCACGGAGTTGGCCCTGGCTCGCGCCACCAGGG  
CAAGAAGGTGGGAATCCTAGATGTGGACCTGTGCGGTCCAGCATAACCACACATGCTCCGTGCACAAGGC  
AAGGCCGTGCACCAGTGTGACAATGGCTGGTGCCTGTCTTTGTGGATCAGGAGCAGAGCATCTCCCTTA  
TGCTGTGGGGTTCCTGTGAAAACCCGATGAGGCCGTGGTGTGGAGAGGTCCAAGAAACATGCACT  
GATAAAGCAGTTTGTGTCTGACGTGGCCTGGGGGAGCTGGATTATCTGGTTGTGGACACACCTCCAGGG  
ACCTCTGATGAGCACATGGCCACTATGGAAGCCCTGCGCCCTACAGGCCCTTGGGGCTTTGTAGTCA  
CCACACCACAGGCGGTGTCTATTGGGGATGTGAGGCGGGAGCTGACCTTCTGTAAGAAGACTGGGCTGCA  
GGTGATAGGGTTCATAGAGAACATGAGCGGCTTACCTGCCCACACTGCGCTGAGTGCACCAATGTCTTC  
TCCAGCGCAGTGGGAGGAGCTGGCCCGGCTGGCTGGAGTTCCTTTTTAGGCTCTGTCCCCTGGATT  
CCCAACTACCAGGAGCTGGAGGAAGGGCGTGACTTCATCCAGGAATTTCCAAAGCACTGCATATTC  
CGCACTCAGTCCATAGCCCAGAGAGTTGTGCACAGGATGTCTGCCCTGTGCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR203686 protein sequence  
Red=Cloning site Green=Tags(s)

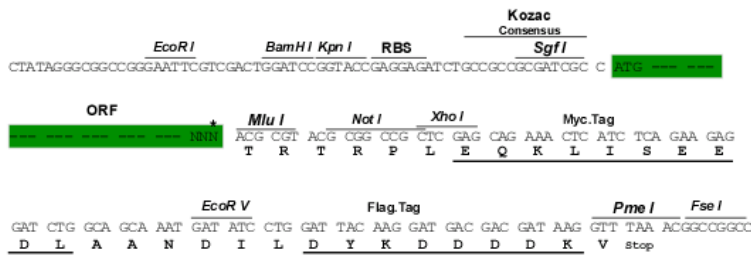
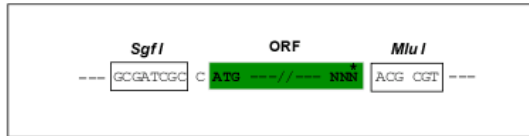
MEAAAGERAE PGNLAGVRHIILVLSGKGGVGKSTISTELALALRHQKKGILDVDLCGPSIPHMLRAQG  
 KAVHQCDNGWVPVFDQEQSISLMSVGFLENPDEAVVWRGPKKHALIKQFVSDVAWGQLDYLVDTPPG  
 TSDEHMATMEALRPYRPLGALVVTTPQAVSIGDVRRELTFCKKTGLQVIGV IENMSGFTCPHCAECTNVF  
 SSGSGEELARLAGVPFLGSVPLDSQLTRSLEEGRDFIQEFPKSTAYSALTSIAQRVVHRMSALCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_011956

**ORF Size:** 828 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\\_011956.3](#)

**RefSeq Size:** 1448 bp

**RefSeq ORF:** 828 bp

**Locus ID:** 26426

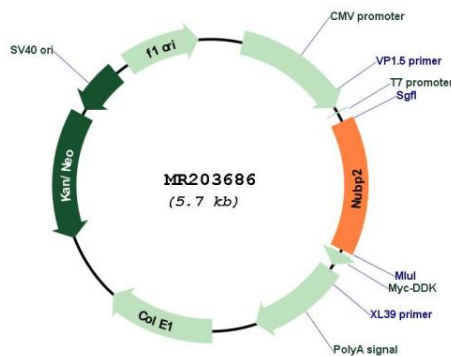
**UniProt ID:** [Q9R061](#)

**Cytogenetics:** 17 12.53 cM

**MW:** 29.5 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 (PubMed:23807208). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR203686