

Product datasheet for **MR204626**

Nubp1 (BC055436) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nubp1 (BC055436) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nubp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204626 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAGGCGCCACGGCTGCCCCGGGGCCGACAGCGCCAGGCCGGCCGAGGAGCCTCGTGCCAGG
 GATGCCCCAACAGAGGCTGTGCGCATCCGAGCCGGCGCTGCTCCGGATCCCGCTGTGGAGGAAATCAG
 AGAGAAGATGAAGACGGTGAGACACAAGCTCTTGGTGCTGTCTGGAAAAGCGCGCTTGGGAAAAGCAGC
 TTCAGTGACACCTCGCCACGGCCTGGCGGAGGATGGAGACACACAGGTCGCTCTTCTGGACATCGATA
 TCTGTGGGCCATCGATTCCCAAGATCATGGGCTTAGAAGGAGAGCAGGTTACCCAGAGCGGCTCCGGCTG
 GTCTCCAGTGTACGTGGATGACAACCTGGGGGTGATGTCGGTGGGCTTTCTGCTTAGCAGCCAGATGAT
 GCTGTCATCTGGAGGGACCAAAGAAAAATGGTATGATCAAGCAGTTCCTCCGTGATGTAGACTGGGGAG
 ACGTGGACTACCTCATCATAGACACCCCGCCTGGCACGTCTGATGAACACCTCTCAGTGGTCCAGTACCT
 GGCTGCGGCACACATTGATGGGGCAGTGATCCTCACCACCCCTCAGGAGGTGGCCCTCCAGGATGTCCGG
 AAAGAGATCAGCTTCTGCCACAAGGTGAAGCTGCCATTATTGGTGTGGTAGAGAACATGAGCGTTTCA
 TCTGCCCCAAGTGCAAGAAAGAGTCTCAGATCTTCCCTCCACGACTGGGGGTGCAGAGGCCATGTGCCA
 GGATCTGAAGATTCCACTTCTGGGCAAAGTGCCGCTGGATCCACACATAGGCAAGAGCTGTGACAAAGGC
 CAGTCTTTTTTTGTGAAGCTCCAGATTCACCAGCCACAGCAGCTACAGAAGTATAATTCAGAGGATCC
 GAGACTTTTGAATTCTCGTCAGTCACATGCTGAGACCCTCATCAGTCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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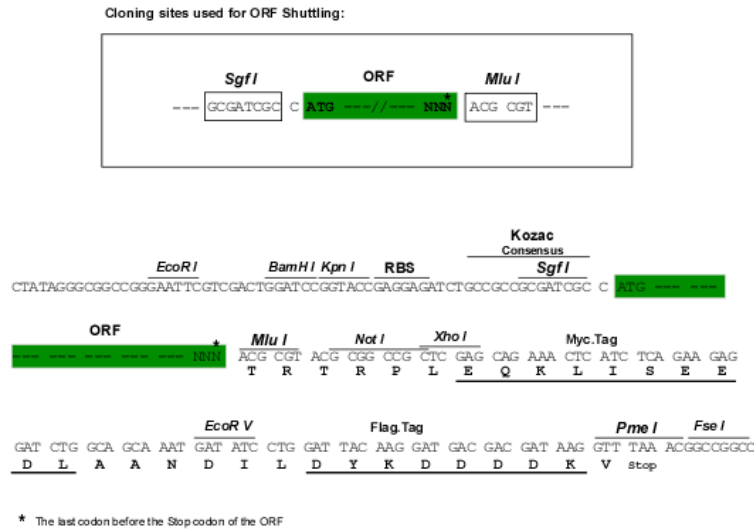
Protein Sequence: >MR204626 protein sequence
 Red=Cloning site Green=Tags(s)

MEEAPHGCPGADSAQAGRGASCQGCNPQRLCASGAGAAPDPAVEEIREKMKTVRHKLLVLSGKGGVGKST
 FSAHLAHLAEDGDTQVALLDIDICGPSIPKIMGLEGEQVHQSGSGWSPVYVDDNLGVMSVGFLLSSPDD
 AVIWRGPKKNGMIKQFLRDVDWGDVDYLIIDTPPGTSDEHLSVVQYLAHAHIDGAVILTPQEVALQDVR
 KEISFCHKVKLPIIGVVENMSGFICPKCKKESQIFPPTTGAEAMCQDLKIPLLGVPLDPHIGKSCDKG
 QSFFVEAPDSPATAAYRSIIQRIRDFCNSRQSHAETLISP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC055436

ORF Size: 960 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: [BC055436](#), [AAH55436](#)

RefSeq Size: 1264 bp

RefSeq ORF: 962 bp

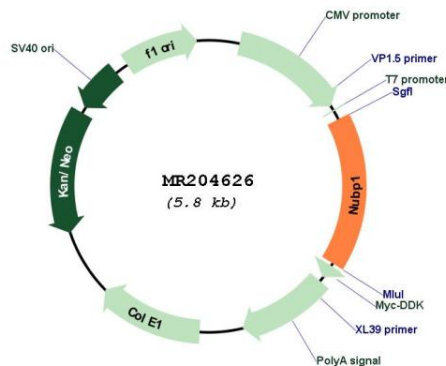
Locus ID: 26425

Cytogenetics: 16 5.61 cM

MW: 34.1 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 (By similarity). Implicated in the regulation of centrosome duplication (PubMed:16638812, PubMed:23807208). Negatively regulates cilium formation and structure (PubMed:23807208).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204626