

Product datasheet for **MG204626**

Nubp1 (BC055436) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nubp1 (BC055436) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nubp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204626 representing BC055436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGGCGCCACGGCTGCCCCGGGGCCGACAGCGCCAGGCCGGCCGAGGAGCCTCGTGCCAGG
GATGCCCCAACAGAGGCTGTGCGCATCCGGAGCCGGCGCTGCTCCGGATCCCGCTGTGGAGGAAATCAG
AGAGAAGATGAAGACGGTGAGACACAAGCTCTTGGTGCTGTCTGGAAAAGCGGCGTTGGGAAAAGCAGC
TTCAGTGACACCTCGCCACGGCCTGGCGGAGGATGGAGACACACAGGTCGCTCTTCTGGACATCGATA
TCTGTGGGCCATCGATTCCCAAGATCATGGGCTTAGAAGGAGAGCAGGTTACCCAGAGCGGCTCCGGCTG
GTCTCCAGTGTACGTGGATGACAACCTGGGGGTGATGTCGGTGGGCTTTCTGCTTAGCAGCCAGATGAT
GCTGTCATCTGGAGGGACCAAAGAAAAATGGTATGATCAAGCAGTTCCTCCGTGATGTAGACTGGGGAG
ACGTGGACTACCTCATCATAGACACCCCGCTGGCACGTCTGATGAACACCTCTCAGTGGTCCAGTACCT
GGCTGCGGCACACATTGATGGGGCAGTGATCCTCACCACCCCTCAGGAGGTGGCCCTCCAGGATGTCCGG
AAAGAGATCAGCTTCTGCCACAAGGTGAAGCTGCCATTATTGGTGTGGTAGAGAACATGAGCGTTTCA
TCTGCCCCAAGTGCAAGAAAGAGTCTCAGATCTTCCCTCCACGACTGGGGGTGCAGAGGCCATGTGCCA
GGATCTGAAGATTCCACTTCTGGGCAAAGTGCCGCTGGATCCACACATAGGCAAGAGCTGTGACAAAGGC
CAGTCTTTTTTTGTGAAGCTCCAGATTCACCAGCCACAGCAGCTACAGAAGTATAATTCAGAGGATCC
GAGACTTTTGAATTCTCGTCAGTCACATGCTGAGACCCTCATCAGTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG204626 representing BC055436
 Red=Cloning site Green=Tags(s)

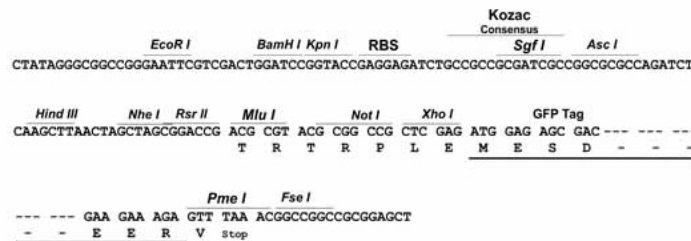
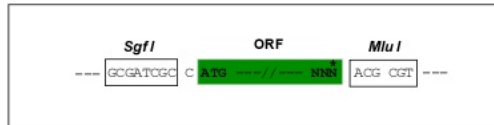
MEEAPHGCPGADSAQAGRGASCQGCNPQRLCASGAGAAPDPAVEEIREKMKTVRHKLLVLSGKGGVGKST
 FSAHLAHLAEDGDTQVALLDIDICGPSIPKIMGLEGEQVHQSGSGWSPVYVDDNLGVMSVGFLLSSPDD
 AVIWRGPKNKMIKQFLRDVDWGDVDYLIIIDTPPGTSDEHLSVVQYLAHAHIDGAVILTPQEVALQDVR
 KEISFCHKVKLPIIGVVENMSGFICPKCKKESQIFPPTTGAEAMCQDLKIPLLGVPLDPHIGKSCDKG
 QSFVFEAPDSPATAAYRSIIQRIRDFCNSRQSHAETLISP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

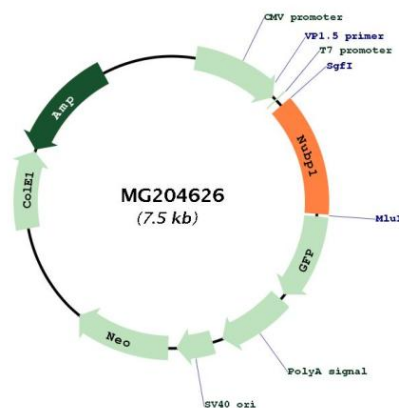
RefSeq ORF: 962 bp

Locus ID: 26425

Cytogenetics: 16 5.61 cM

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 MG204626