

## Product datasheet for **MG204601**

### Nubpl (BC062175) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nubpl (BC062175) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nubpl
Synonyms:	2410170E07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204601 representing BC062175 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGACCTGGCGGCGTTTGGCTCTTTGGCGGGGTGCTCACTCCGGGGTGGTGGCGGGCCACTGTCC  
CGCCCCGGGGGTGCCGAGCTTTGGGTTGTGGCGCCAGTTATTAGGCGCTGAGAGTGAGGCCTTGAACA  
AAGAAGAACACAAATCATGTCCGAGGACTTCTAAGCAGAAGCCTATAGAAGGTGTTAGAGAAGTCATT  
GTTGTGGCCTCTGAAAGGGTGGTGTGGAAAGTCTACCACCGCAGTGAACCTTGCTCTTGCGCTGGCAG  
CAAATGATTCGTCGAAGGCGTTGGCTTGTAGATGTGGATGTGTATGGTCCATTCCAAGATGAT  
GAACCTGAGAGGAAATCCAGAATTATCACAAATAACCTAATGAGGCCTCTTTGAATTATGGTATTGCT  
TGTATGTCAATGGGCTTTTTGGTTGAAGAGACTGCGCCACTTGTTTGGAGAGGCCTTATGTTAATGTCAG  
CCATTGAGAAATTATTGAGACAGGTTGATTGGGGTCACTGGACTATTTAGTTGTGGACATGCCACCAGG  
AACAGGAGACGTGCAGCTGTCAGTTTCAAAAAATTCCCATTTTCAGGTGCTGTGATTGTCTCCACACCT  
CAGGACATTGCACTGATGGATGCACACAAGGGTGGGAGATGTTTCGAAAGTCAATGTGCCTGTTCTTG  
GTCTTGCCAAAACATGAGTGTCTTCCAGTGTCCAAAATGTAACACAAAACATATTTTTGGTGTCTGA  
TGGTGAAGAAAACATGACAGACCCCTTGATCTTGATGTTCTAGGAGATGTTCCCTTGCACCTCAGTATA  
AGGGAAGCTTCGGATATGGGTCAACCAGTTGCTTTTCTCAGCCTGGAAGTATGAGGCCAAAGCTTACC  
TGCAATTTGCTTCCGAAGTGGTGAAGATTGAAGTCATCTCCAGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204601 representing BC062175  
 Red=Cloning site Green=Tags(s)

MGTWRLLLLFGGVSLRGGGAATVPPRGCRALGCGRQLLGAESEALKQRRTQIMSRGLPKQKPIEGVREVI  
 VVASGGVGVKSTTAVNLALALAANDSSKAVGLLDVDVYGPSIPKMMNLRGNPELSPNNLMRPLLNYGIA  
 CMSMGFLVEETAPLVWRGLMVMSAIEKLLRQVDWGQLDYLVDMPPTGDVQLSVSQNIPISGAVIVSTP  
 QDIALMDAHLKAEMFRKVNVPVLGLVQNMVVFQCPKCKHKTHIFGADGARKLAQTLDDLVDLGDVPLHLSI  
 REASDMGQPVVFSQPGSDEAKAYLHIASEVVRRLKSSPE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC062175

**ORF Size:** 959 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:** [BC062175](#), [AAH62175](#)

**RefSeq Size:** 1286 bp

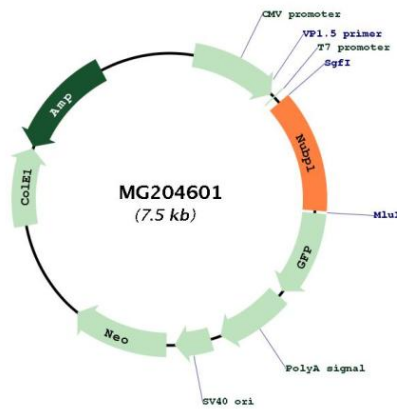
**RefSeq ORF:** 959 bp

**Locus ID:** 76826

**Cytogenetics:** 12 C1

**Gene Summary:** Required for the assembly of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I). May deliver of one or more Fe-S clusters to complex I subunits (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG204601