

## Product datasheet for **MR203118**

### Mpdu1 (BC026776) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mpdu1 (BC026776) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mpdu1
Synonyms:	SL15, LEC35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203118 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGGAGGCCGACGGCCGTTCAAAGGGCTGCTGGTGCCAATTCTTTACCTGAGAAATGTTACG  
ACCAGCTCTTCGTGCAATGGGACTTGCTTCATGTTCCCTGCCTCAAGATTCTCCTCAGCAAAGGCCTCGG  
GCTGGGCATCGTGGCTGGGTCACTTCTCGTCAAGCTGCCCAAGTATTTAACTCTGGGAGCCAAGAGT  
GCAGAAGGACTGAGTCTCCAGTCAGTAATGCTGGAGCTAGTGGCACTGACCGGAACCGTGGTCTACAGCA  
TCACCAACAACCTCCCTTCAGTCTTGGGGTGAAGCGCTGTTCCCTGACACTCCAGACCGTTGCCATCTG  
CTTCTGGTTCATGCACTACAGAGGAGAGACCGTGAAGGAGTTCGCTTTCCTTGCCTGCTATGCCATGGTC  
CTGCTGGCGTGTCTCCCCGCTCACGCCTCTGGCTGTAGTCACTCTGCTCCAGGCCTCCAATGTACCTG  
CCGTGGTGGTGGGAAGTTGCTTCAGGCAGCCACTAACTACCGCAACGGACACACAGGCCAGCTTTCAGC  
CATTACAGTGTATGCTGTTGGGGGCTCCTTGGCCGAATCTCACTTCTGTTTCAGGAACTGGAGAC  
CCCCTCATGGCTGGAGTCTTGTGGTCTTCTCTCTGCAATGGCCTCATTGCTGCCAGGTCTCTTCT  
ACTGGAACGCAAAGGCTCCCCACAAACAGAAAAAGGAGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203118 protein sequence  
 Red=Cloning site Green=Tags(s)

MAGEADGPFKGLLVPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKLLGAKS  
 AEGLSLQSVMLELVALTGTVVYSITNNFPFSSWGEALFLTLQTVAICFLVMHYRGETVKGVAFLACYAMV  
 LLALLSPLTPLAVVTLQASNPVAVVVGKLLQAATNYRNGHTGQLSAITVFMLFGGSLARIFTSVQETGD  
 PLMAGVFVSSLCNGLIAAQVLFYWNAKAPHKQKKEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** BC026776

**ORF Size:** 741 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:** [BC026776](#), [AAH26776](#)

**RefSeq Size:** 1259 bp

**RefSeq ORF:** 743 bp

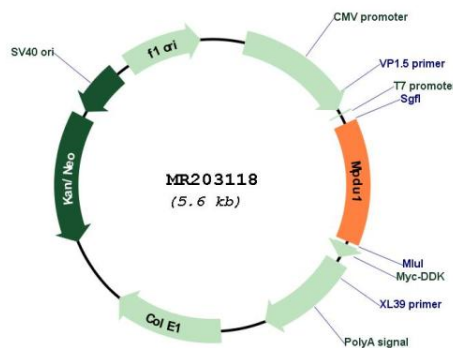
**Locus ID:** 24070

**Cytogenetics:** 11 42.86 cM

**MW:** 26.4 kDa

**Gene Summary:** This gene encodes a member of the PQ-loop superfamily. A similar gene in human encodes a protein that is required for monosaccharide-P-dolichol-dependent glycosyltransferase reactions, and disruption of this gene is the cause of congenital disorder of glycosylation (CDG) type 1F, a disease linked to defects in protein N-glycosylation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

## Product images:



Circular map for MR203118