

Product datasheet for **MR228461**

Mpdu1 (NM_001301710) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mpdu1 (NM_001301710) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mpdu1
Synonyms: LEC3; LEC35; SL; SL15; Supl; Supl15h
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228461 representing NM_001301710
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGCGGGGGAGGCCGACGGGCCGTTCAAAGGGCTGCTGGTGCCAATCTTTTACCTGAGAAATGTTACG
ACCAGCTCTTCGTGCAATGGGACTTGCCTCATGTTCCCTGCCTCAAGATTCTCCTCAGCAAAGGCCCTCGG
GCTGGGCATCGTGGCTGGTCACTTCTCGTCAAGCTGCCAGGTATTTAACTCTGGGAGCCAAGAGT
GCAGAAGGACTGAGTCTCCAGTCAGTAATGCTGGAGCTAGTGGCACTGACCGGAACCGTGGTCTACAGCA
TACCAACAACCTCCCTTCAGTTGCTTCAGGCAGCCACTAACTACCGCAACGGACACACAGGCCAGCTT
TCAGCCATTACAGTGTATGCTGTTTGGGGGCTCCTTGGCCGAATCTTCACTTCTGTTTCAGGAACTG
GAGACCCCTCATGGCTGGAGTCTTGTGGTCTTCTCTCTGCAATGGCCTCATTGCTGCCAGGTCTCT
CTTCTACTGGAACGCAAAGGCTCCCCACAAACAGAAAAAGGAGCAATAGAGCTGAGCTCGCTTCTAGAAC
AATTCATTTCCACTCATCTCAGAGTCCTCCCCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228461 representing NM_001301710
Red=Cloning site Green=Tags(s)

MAGEADGPFKGLLVPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKLLGAKS
AEGLSLQSYMLELVALTGTVVYSITNPFPSCFRQPLTTATDTQASFQPLQCLCCLGAPWPESLLFRKL
ETPSWLESLSLLSAMASLLPRSSSTGTQRLPTNRKRSNRAELASRTIPFPLILRVLPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

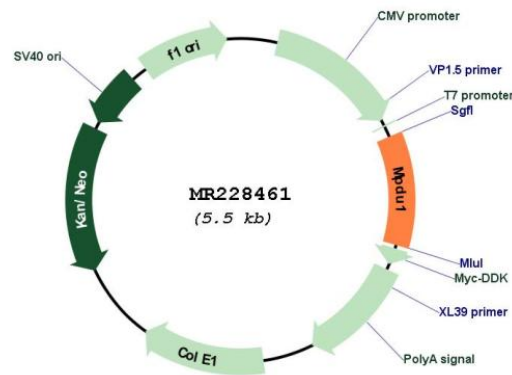
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001301710

ORF Size: 597 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_001301710.1](#), [NP_001288639.1](#)

RefSeq Size: 1123 bp

RefSeq ORF: 600 bp

Locus ID: 24070

Cytogenetics: 11 42.86 cM

MW: 22.2 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]