

Product datasheet for **MR219849**

Mpdu1 (NM_011900) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mpdu1 (NM_011900) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mpdu1
Synonyms:	LEC3; LEC35; SL; SL15; Supl; Supl15h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219849 representing NM_011900 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGGAGGCCGACGGCCGTTCAAAGGGCTGCTGGTGCCAATTCTTTACCTGAGAAATGTTACG
ACCAGCTCTTCGTGCAATGGGACTTGCTTCATGTTCCCTGCCTCAAGATTCTCCTCAGCAAAGGCCTCGG
GCTGGGCATCGTGGCTGGGTCACTTCTCGTCAAGCTGCCCAAGTATTTAACTCTGGGAGCCAAGAGT
GCAGAAGGACTGAGTCTCAGTCAGTAATGCTGGAGCTAGTGGCACTGACCGGAACCGTGGTCTACAGCA
TCACCAACAACCTCCCTTCAGCTCTGGGGTGAAGCGCTGTTCCCTGACACTCCAGACCGTTGCCATCTG
CTTCTGGTTCATGCACTACAGAGGAGAGACCGTGAAGGAGTTCGCTTTCCTTGCCTGCTATGCCATGGTC
CTGCTGGCGCTGCTCTCCCGCTCACGCCTCTGGCTGTAGTCACTCTGCTCCAGGCCTCCAATGTACCTG
CCGTGGTGGTGGGAAGTTGCTTCAGGCAGCCACTAACTACCGCAACGGACACACAGGCCAGCTTTCAGC
CATTACAGTGTATGCTGTTGGGGGCTCCTTGGCCGAATCTCACTTCTGTTTCAGGAACTGGAGAC
CCCCTCATGGCTGGAGTCTTTGTGGTCTTCTCTCTGCAATGGCCTCATTGCTGCCAGGTCTCTTCT
ACTGGAACGCAAAGGCTCCCAACAACAGAAAAAGGAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219849 representing NM_011900
Red=Cloning site Green=Tags(s)

MAGEADGPFKGLLVPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKLLGAKS
 AEGLSLQSVMLELVALTGTVVYSITNNFPFSSWGEALFLTQTVAICFLVMHYRGETVKGVAFACYAMV
 LLALLSPLTPLAVVTLQASNPVAVVVGKLLQAATNYRNGHTGQLSAITVFMLFGGSLARIFTSVQETGD
 PLMAGVFVSSLCNGLIAAQVLFYWNAKAPHKQKKEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011900

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: [NM_011900.4](#)

RefSeq Size: 1314 bp

RefSeq ORF: 744 bp

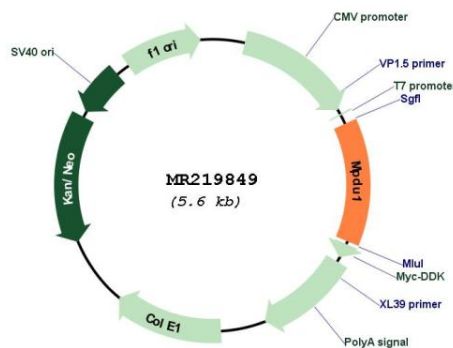
Locus ID: 24070

Cytogenetics: 11 42.86 cM

MW: 26.9 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 MR219849