

Product datasheet for **RG200571**

MPDU1 (NM_004870) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MPDU1 (NM_004870) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MPDU1
Synonyms:	CDGIF; HBEBP2BPA; Lec35; My008; PP3958; PQLC5; SL15; SLC66A5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200571 representing NM_004870 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTACCTGAGAAATGCTACG
ACCAACTTTTCGTTTCAGTGGGACTTGCTTACAGTCCCCTGCCTCAAGATTCTCCTCAGCAAAGGCCTGGG
GCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAATCCTGGGAGCCAAGAGT
GCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCA
TACTAACAACCTCCCATTCAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTG
CTTCTGGTCATGCACTACAGAGGACAGACTGTGAAAGGTGTCGCTTTCCTCGCTTGCTACGGCCTGGTC
CTGCTGGTGTCTCTCACCTCTGACGCCCTTGACTGTAGTACCCCTGCTCCAGGCCTCCAATGTGCCTG
CTGTGGTGGTGGGGAGGCTTCTCCAGGCAGCCACCAACTACCACAACGGGCACACAGGCCAGCTCTCAGC
CATCACAGTCTTCTGCTGTTTGGGGGCTCCCTGGCCCGAATCTTCACTTCCATTTCAGGAAACGGGAGAT
CCCCTGATGGCTGGGACCTTTGTGGTCTCTCTCTGCAACGGCCTCATCGCCACCCAGCTGCTCTTCT
ACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAAGGCGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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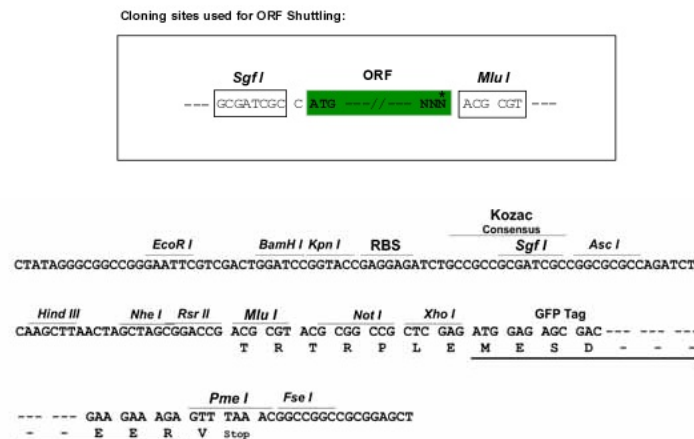
Protein Sequence: >RG200571 representing NM_004870
 Red=Cloning site Green=Tags(s)

MAAEADGPLKRLLPILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKILGAKS
 AEGLSLQSVMLLELVALTGMTVYSITNNFPFSSWGEALFLMLQITITICFLVMHYRGQTVKGVAFACYGLV
 LLVLLSPLTPLTVVTLQASNPVAVVGRLLQAATNYHNGHTGQLSAITVFLFFGGSLARIFTSIQETGD
 PLMAGTFVVSSLCNGLIATQLLFYWNAKPPHKQKKAQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004870

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_004870.2](#), [NP_004861.2](#)

RefSeq Size: 1451 bp

RefSeq ORF: 744 bp

Locus ID: 9526

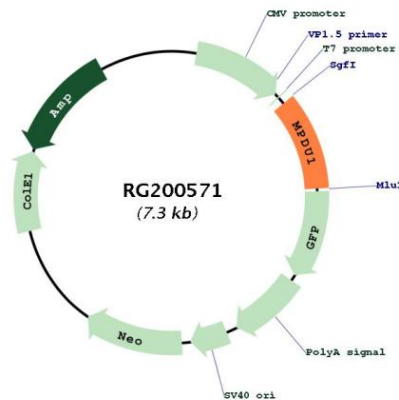
UniProt ID: [O75352](#)

Cytogenetics: 17p13.1

Protein Families: Transmembrane

Gene Summary: This gene encodes an endoplasmic reticulum membrane protein that is required for utilization of the mannose donor mannose-P-dolichol in the synthesis of lipid-linked oligosaccharides and glycosylphosphatidylinositols. Mutations in this gene result in congenital disorder of glycosylation type If. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RG200571