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Product datasheet for RC212952

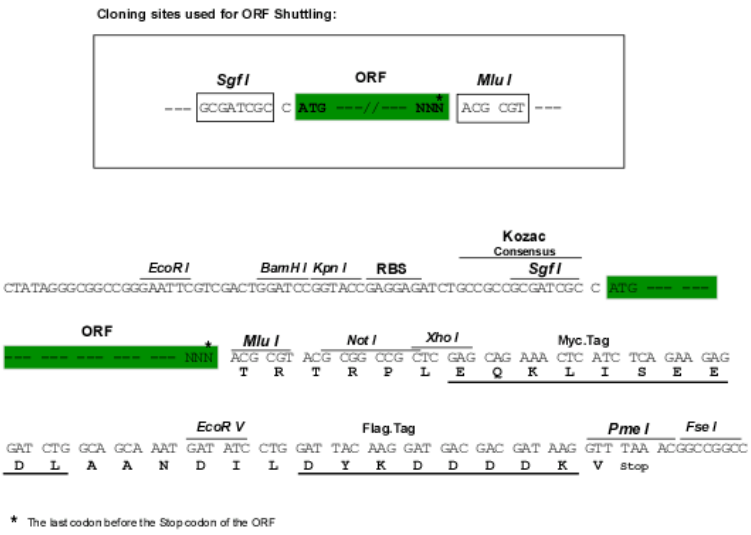
DPM3 (NM_018973) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPM3 (NM_018973) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPM3
Synonyms:	CDG1O; MDDGB15; MDDGC15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212952 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTCTCCGTGGGCGGGCTTCGGTTGAGTTTGGTCCGCTTTTCCTTTCTGCTCCTCAGGGGAGCATTGC TTCCTTCTCTCGCAGTGACCATGACGAAATTAGCGCAGTGGCTTTGGGGACTAGCGATCCTGGGCTCCAC CTGGGTGGCCCTGACCACGGGAGCCTTGGGCCTGGAGCTGCCCTTGTCCTGCCAGGAAGTCCTGTGGCCA CTGCCCGCCTACTTGCTGGTGTCCGCCGGCTGCTATGCCCTGGGCACTGTGGGCTATCGTGTGGCCACTT TTCATGACTGCGAGGACGCCGCACGCGAGCTGCAGAGCCAGATACAGGAGGCCCGAGCCGACTTAGCCCG CAGGGGGCTGCGCTTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC212952 protein sequence Red=Cloning site Green=Tags(s) MLSVGGLRLSLVRFSFLLLRGALLPSLAVTMTKLAQWLWGLAILGSTWVALTTGALGLELPLSCQEVLWP LPAYLLVSAGCYALGTVGYRVATFHDCEDAARELQSQIQEARADLARRGLRF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6446_d12.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_018973

ORF Size: 366 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_018973.3, NP_061846.2

RefSeq Size: 532 bp

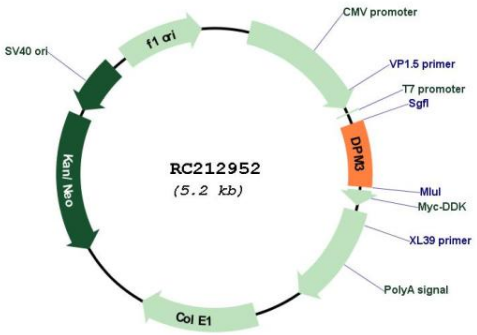
RefSeq ORF: 369 bp

Locus ID: 54344

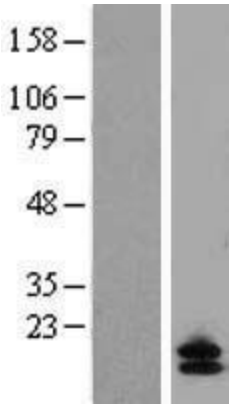
UniProt ID: Q9P2X0

Cytogenetics:	1q22
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	13.3 kDa
Gene Summary:	Dolichol-phosphate mannose (Dol-P-Man) serves as a donor of mannosyl residues on the lumenal side of the endoplasmic reticulum (ER). Lack of Dol-P-Man results in defective surface expression of GPI-anchored proteins. Dol-P-Man is synthesized from GDP-mannose and dolichol-phosphate on the cytosolic side of the ER by the enzyme dolichyl-phosphate mannosyltransferase. The protein encoded by this gene is a subunit of dolichyl-phosphate mannosyltransferase and acts as a stabilizer subunit of the dolichyl-phosphate mannosyltransferase complex. [provided by RefSeq, Jul 2008]

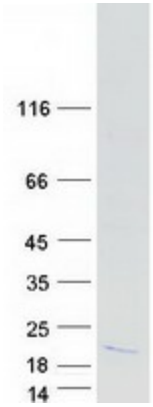
Product images:



Circular map for RC212952



Western blot validation of overexpression lysate (Cat# [LY412819]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212952 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DPM3 protein (Cat# [TP312952]). The protein was produced from HEK293T cells transfected with DPM3 cDNA clone (Cat# RC212952) using MegaTran 2.0 (Cat# [TT210002]).