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Product datasheet for RC219720

GMPPB (NM_013334) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMPPB (NM_013334) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GMPPB
Synonyms:	LGMDR19; MDDGA14; MDDGB14; MDDGC14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219720 representing NM_013334
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGCACTGATCTTAGTGGGGGGCTATGGGACGCGGCTACGGCCGCTGACGCTGAGCACCCCGAAGC
CACTGGTGGACTTCTGCAATAAGCCCATCTTGCTGCACCAAGTGGAGGCGCTAGCCGCGGCAGGCGTGGA
CCACGTGATCCTGGCCGTGAGCTACATGTCGCAGGTGCTGGAGAAGGAAATGAAGGCACAGGAGCAGAGG
CTGGGAATCCGAATCTCCATGTCCCATGAAGAGGAGCCTTTGGGGACAGCTGGGCCCCTGGCGCTGGCCC
GTGACCTACTCTCTGAGACTGCAGACCCTTTCTTCGTCCTCAACAGTGACGTGATCTGCGATTTCCCCTT
CCAAGCCATGGTGCAGTTCCACCGGCACCATGGCCAGGAGGGCTCCATCCTGGTGACCAAGGTGGAGGAA
CCCTCCAAGTACGGTGTGGTGGTGTGTGAGGCTGACACAGGCCGCATTCACCGGTTCGTGGAGAAGCCAC
AGGTGTTTGTGTCCAATAAGATCAACGCAGGCATGTACATCCTGAGCCCTGCAGTGCTGCGGCGCATCCA
GCTGCAGCCTACGTCCATTGAGAAGGAGGTCTTCCCCATTATGGCCAAGGAGGGGCAGCTATATGCCATG
GAGTTACAGGGCTTCTGGATGGACATTGGGCAGCCCAAGGACTTCCTCACTGGCATGTGCCTCTTCCTGC
AGTCACTGAGGCAGAAGCAGCCTGAGCGGCTGTGCTCAGGCCCTGGCATTGTGGGCAACGTGCTGGTGGA
CCCAAGTGCCCGCATCGGCCAGAACTGCAGCATTGGCCCCAATGTGAGCCTGGGACCTGGCGTGGTGGTC
GAAGATGGTGTGTGTATCCGGCGGTGCACGGTGCTGCGGGATGCCCGGATCCGTTCCCATTCCTGGCTTG
AGTCCTGCATTGTGGGCTGGCGCTGCCGCGTGGGTCAGTGGGTAAGCCTGTGGGCTGGGCTGGGTGGGGA
GAGGGGCGGGGAGTGTGCCTGCCTCCCTGACAAGGCCTATCCTCTCCTGGAGGTACGCATGGAGAACGTG
ACAGTGCTGGGTGAGGACGTCATAGTTAATGATGAGCTCTACCTCAACGGAGCCAGCGTGCTGCCCCACA
AGTCTATTGGCGAGTCAGTGCCAGAGCCTCGTATCATCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC219720 representing NM_013334
Red=Cloning site Green=Tags(s)

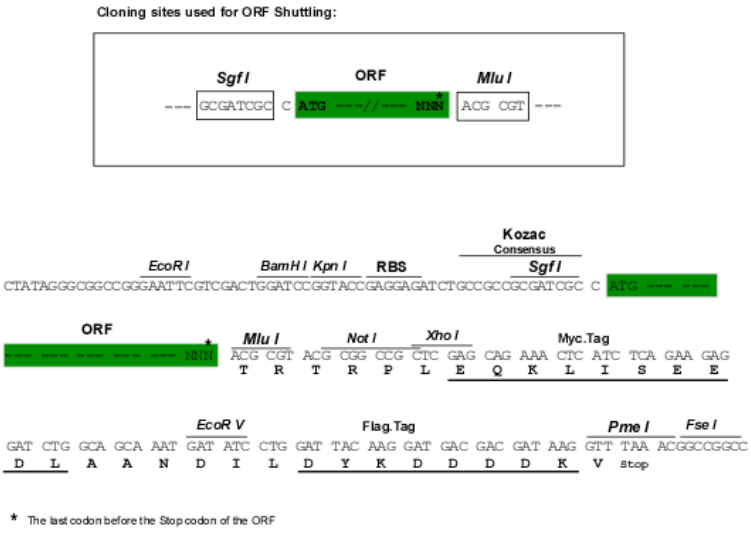
MKALILVGGYGTRLRPLTLSTPKPLVDFCNKPILLHQVEALAAAGVDHVILAVSYMSQVLEKEMKAQEQR
LGIRISMSHEEEPLGTAGPLALARDLLSETADPFFVLNSDVICDFPFQAMVQFHRHHGQEGSILVTKVEE
PSKYGVVVCEADTGRIHRFVEKPQVFVSNKINAGMYILSPAVLRRIQLQPTSIEKEVFPIMAKEGQLYAM
ELQGFWMDIGQPKDFLTGMCLFLQSLRQKQPERLCSGPGIVGNVLVDPSARIGQNCSIGPNVSLGPGVVV
EDGVCIRRCTVLRDARIRSHSWLESCIVGWRCRVGQWVSLWAGLGGERGGECACLPDKAYPLLEVRMENV
TVLGEDVIVNDELYLNGASVLPHKSIGESVPEPRIIM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6080_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013334

ORF Size: 1161 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_013334.3, NP_037466.2

RefSeq Size: 1664 bp

RefSeq ORF: 1164 bp

Locus ID: 29925

UniProt ID: Q9Y5P6

Cytogenetics: 3p21.31

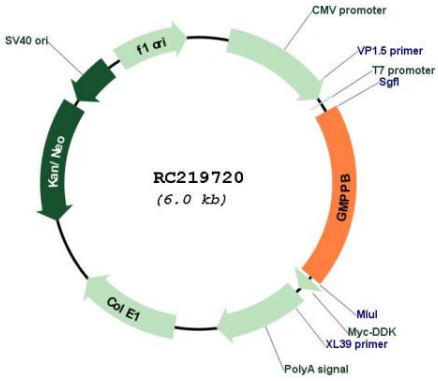
Domains: hexapep, NTP_transferase

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways

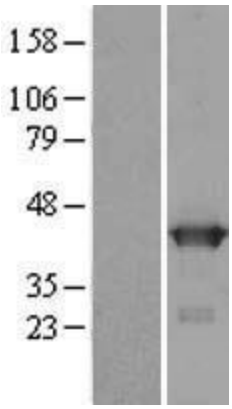
MW: 42.5 kDa

Gene Summary: This gene is thought to encode a GDP-mannose pyrophosphorylase. The encoded protein catalyzes the conversion of mannose-1-phosphate and GTP to GDP-mannose, a reaction involved in the production of N-linked oligosaccharides. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2009]

Product images:



Circular map for RC219720



Western blot validation of overexpression lysate (Cat# [LY415640]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219720 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).