

Product datasheet for RC208134L3

OriGene Technologies, Inc.

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Mannose Phosphate Isomerase (MPI) (NM_002435) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Mannose Phosphate Isomerase (MPI) (NM_002435) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Mannose Phosphate Isomerase

Synonyms: CDG1B; PMI; PMI1

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

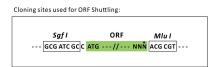
ORF Nucleotide

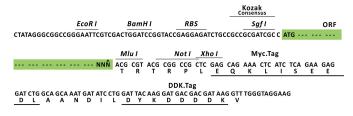
The ORF insert of this clone is exactly the same as(RC208134).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_002435

ORF Size: 1269 bp



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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 002435.1

 RefSeq Size:
 3077 bp

 RefSeq ORF:
 1272 bp

 Locus ID:
 4351

 UniProt ID:
 P34949

Cytogenetics: 15q24.1

Domains: PMI typel

Protein Families: ES Cell Differentiation/IPS

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

Metabolic pathways

MW: 46.7 kDa

Gene Summary: Phosphomannose isomerase catalyzes the interconversion of fructose-6-phosphate and

mannose-6-phosphate and plays a critical role in maintaining the supply of D-mannose derivatives, which are required for most glycosylation reactions. Mutations in the MPI gene

were found in patients with carbohydrate-deficient glycoprotein syndrome, type lb.
Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]