

## Product datasheet for MR203749

### M6pr (NM\_010749) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	M6pr (NM_010749) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	M6pr
Synonyms:	CD-MPR; Mpr46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203749 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTCCCTTCTCTGGCTGCTGGAGGACTGAACTGTTATTGTTGCTACTCCTGGCTGTGGCTGTGAGAG  
AATCCTGGCAGATAGAAGAAAAATCGTGTGACCTGGTAGGAGAGAAGGATAAGGAGTCAAAGAACGAGGT  
GGCTCTCCTGGAGAGTTACGGCCACTGTTTAAACAAAAGTTTTGAGAGTACTGTGGCCAGGGCTCAGAC  
ACATACAGCTACATATTCAGAGTATGCCGGGAAGCTAGCAACCACTCCTCTGGAGCAGGCCTGGTCCAGA  
TCAACAAAAGCAATGACAAGGAGACAGTGGTTGGGAGAATCAACGAGACTCACATCTTCAATGGAAGTAA  
TTGGATCATGCTGATATATAAAGGGGGTATGAATATGACAACCACTGTGGCAAAGAGCAGCGCCGTGCA  
GTGGTATGATCTCCTGCAATCGGCACACACTAGCGGCTAATTTTAAACCAAGTGTCTGAGGAACGAGGCA  
AAGTCCAGGATTGCTTCTACCTCTTTGAGATGGATAGCAGCCTGGCCTGTTACCAGAGGTCTCACACCT  
CAGTGTGGGCTCGATCTTACTTGTATATTTGCATCATTGGTTGCTGTCTATATCATTGGGGGTTTCTTA  
TACCAGCGACTGGTAGTGGGGCCAAGGGAATGGAGCAGTTTCTCATCTGGCCTTCTGGCAGGATCTTG  
GCAACCTAGTAGCTGATGGTTGTGACTTTGTGTCCGATCCAACCCCGCAATGTGCCTGCAGCATATCG  
TGGAGTGGGAGATGACCAGCTGGGGGAAGAGTCGGAAGAAAGGGATGATCATCTGCTACCAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203749 protein sequence  
Red=Cloning site Green=Tags(s)

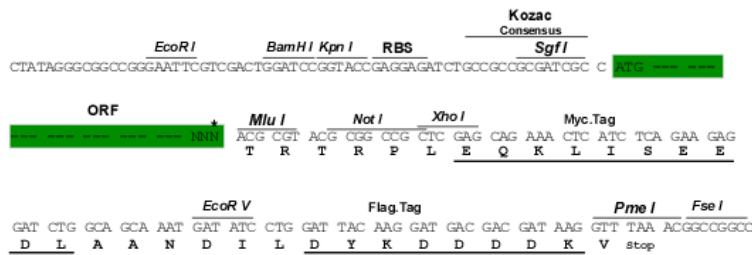
MFPFSGCWRETELLLLLLAVAVRESWQIEEKSCDLVGEKDKEKNEVALLERLRPLFNKSFESTVGGSD  
 TYSYIFRVCREASNHSSGAGLVQINKSNDKETVVGRINETHIFNGSNWIMLIYKGGDEYDNHCGKEQRRRA  
 VVMISCNRHTLAANFNVPVSEERKVVQDCFYLFEMDSSLACSPVSHLSVGSILLVIFASLVAVYIIGGFL  
 YQRLVVGAKGMEQFPHLAFWQDLGNLVADGCDVCRSKPRNVPAAVRGVGDDQLGEESEERDDHLLPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_010749

**ORF Size:** 837 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\\_010749.2](#), [NM\\_010749.3](#), [NM\\_010749.5](#), [NM\\_010749.6](#), [NM\\_010749.7](#), [NP\\_034879.2](#)

**RefSeq Size:** 2258 bp

**RefSeq ORF:** 837 bp

**Locus ID:** 17113

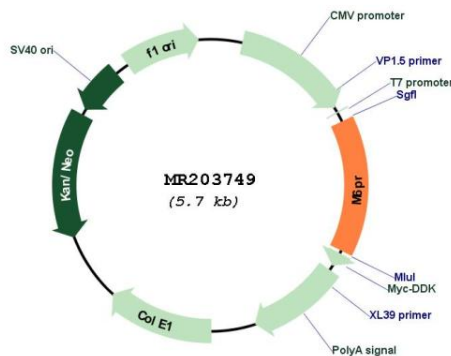
**UniProt ID:** [P24668](#)

**Cytogenetics:** 6 57.52 cM

**MW:** 31.2 kDa

**Gene Summary:** Transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelysosomal compartment where the low pH mediates the dissociation of the complex.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR203749