

Product datasheet for **RG201277**

M6PR (NM_002355) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	M6PR (NM_002355) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	M6PR
Synonyms:	CD-M6PR; CD-MPR; MPR-46; MPR 46; MPR46; SMPR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201277 representing NM_002355 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCCTTTCTACAGCTGCTGGAGGACTGGACTGCTACTACTCCTGGCTGTGGCAGTGAGAGAAT
CCTGGCAGACAGAAGAAAAAAGTTGCGACTTGGTAGGAGAAAAGGGTAAAGAGTCAGAGAAAAGATTGGC
TCTAGTGAAGAGGCTGAAACCACTGTTTAAATAAAAGCTTTGAGAGCACTGTGGCCAGGGTTCAGACACA
TACATCTACATCTTCAGGGTGTGCCGGGAAGCTGGCAACCACACTTCTGGGCAGGCCTGGTGCAAAATCA
ACAAAAGTAATGGGAAGGAGACAGTGGTAGGGAGACTCAACGAGACTCACATCTTCAACGGAAGTAATTG
GATCATGCTGATCTATAAAGGGGTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCAGTG
GTGATGATCTCCTGCAATCGACACACCCTAGCGGACAATTTAAACCTGTGTCTGAGGAGCGTGGCAAAG
TCCAAGATTGTTTCTACCTCTTTGAGATGGATAGCAGCCTGGCCTGTTACCAGAGATCTCCACCTCAG
TGTGGGTCCATCTTACTTGTACGTTTGCATCACTGGTTGCTGTTTATGTTGTTGGGGGTTTCTATAC
CAGCGACTGGTAGTGGGAGCCAAAGGAATGGAGCAGTTTCCCCACTTAGCCTTCTGGCAGGATCTTGGCA
ACCTGGTAGCAGATGGCTGTGACTTTGTCTGCCGTTCTAAACCTCGAAATGTGCCTGCAGCATATCGTGG
TGTGGGGATGACCAGCTGGGGGAGGAGTCAGAAGAAAGGGATGACCATTATTACCAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201277 representing NM_002355
 Red=Cloning site Green=Tags(s)

MFPFYSCWRTGLLLLLLAVAVRESWQTEEKTCDLVGEKGESEKELALVKRLKPLFNKSFESTVQGQSDT
 YIYIFRVCREAGNHTSGAGLVQINKSNGKETVVGRLNETHIFNGSNWIMLIYKGGDEYDNHCGKEQRRAV
 VMISCNRHTLADNFPVSEERKVDQCFYLFEMDSSLACSPESHLSVGSILLVTFASLVAVYVVGGLY
 QRLVVGAKGMEQFPHLAFWQDLGNLVADGCVFCRSKPRNPAAAYRGGVDDQLGEESEERDHLPLM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002355

ORF Size: 831 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_002355.4](#)

RefSeq Size: 2454 bp

RefSeq ORF: 834 bp

Locus ID: 4074

UniProt ID: [P20645](#)

Cytogenetics: 12p13.31

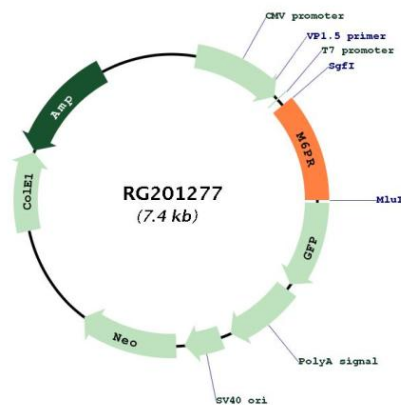
Domains: Man-6-P_recep

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Lysosome

Gene Summary: This gene encodes a member of the P-type lectin family. P-type lectins play a critical role in lysosome function through the specific transport of mannose-6-phosphate-containing acid hydrolases from the Golgi complex to lysosomes. The encoded protein functions as a homodimer and requires divalent cations for ligand binding. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome X. [provided by RefSeq, May 2011]

Product images:



Circular map for RG201277