

## Product datasheet for **RG236434**

### M6PR (NM\_001207024) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** M6PR (NM\_001207024) 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:** >RG236434 representing NM\_001207024.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTCCCTTTCTACAGCTGCTGGAGGACTGGACTGCTACTACTCTCTGGCTGTGGCAGTGAGAGAA
TCCTGGCAGACAGAAGAAAAAATTGCGACTTGGTAGGAGAAAAGGGTAAAGAGTCAGAGAAAGATTG
GCTCTAGTGAAGAGGCTGAAACCACTGTTAATAAAAAGCTTTGAGAGCACTGTGGCCAGGGTTCAGAC
ACATACATCTACATCTTCAGGGTGTGCCGGGAAGCTGGCAACCACACTTCTGGGGCAGGCCTGGTGCAA
ATCAACAAAAGTAAATGGGAAGGAGACAGTGGTAGGAGACTCAACGAGACTCACATCTTCAACGGAAGT
AATTGGATCATGCTGATCTATAAAGGGGTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGT
GCAGTGGTGATGATCTCCTGCAATCGACACACCCCTAGCGGATGGCTGTGACTTTGTCTGCCGTTCTAAA
CCTCGAAATGTGCCTGCAGCATATCGTGGTGTGGGGGATGACCAGCTGGGGGAGGAGTCAGAAGAAAGG
GATGACCATTTATTACCAATG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

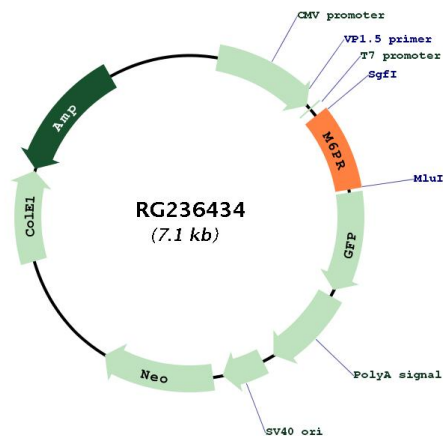
**Protein Sequence:** >Peptide sequence encoded by RG236434  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MFPFYSCWRTGLLLLLLAVAVRESWQTEEKTCDLVGEKGESEKELALVKRLKPLFNKSFESTVQGSD
TYIYIFRVCREAGNHTSGAGLVQINKSNGKETVVGRLNETHIFNGSNWIMLIYKGGDEYDNHCGKEQRR
AVVMIISNRHTLADGCDVFCRSKPRNVPAAAYRGGVDDQLGEESEERDDHLLPM
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001207024

**ORF Size:** 573 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).

RefSeq: [NM\\_001207024.1](#), [NP\\_001193953.1](#)

RefSeq Size: 2325 bp

RefSeq ORF: 576 bp

Locus ID: 4074

Cytogenetics: 12p13.31

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Lysosome

MW: 22 kDa

**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]