

Product datasheet for SC118693

M6PR (NM_002355) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	M6PR (NM_002355) Human Untagged Clone
Tag:	Tag Free
Symbol:	M6PR
Synonyms:	CD-M6PR; CD-MPR; MPR-46; MPR 46; MPR46; SMPR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118693 sequence for NM_002355 edited (data generated by NextGen Sequencing)

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ATGTTCCCTTTCTACAGCTGCTGGAGACTGGACTGCTACTACTCTCTGGCTGTGGCA
GTGAGAGAATCCTGGCAGACAGAAGAAAACTTGCAGCTTGGTAGGAGAAAAGGTA
GAGTCAGAGAAAGAGTTGGCTCTAGTGAAGAGGCTGAAACCACTGTTAATAAAAGCTTT
GAGAGCACTGTGGGCCAGGGTTCAGACACATACATCTACATCTTCAGGGTGTGCCGGAA
GCTGGCAACCACACTTCTGGGGCAGGCCTGGTCAAAATCAACAAAAGTAATGGGAAGGAG
ACAGTGGTAGGGAGACTCAACGAGACTCACATCTTCAACGGAAGTAATTGGATCATGCTG
ATCTATAAAGGGGTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCAGTG
GTGATGATCTCCTGCAATCGACACACCCTAGCGGACAATTTAACCTGTGTCTGAGGAG
CGTGGCAAAGTCCAAGATTGTTTCTACCTTTGAGATGGATAGCAGCCTGGCCTGTTCA
CCAGAGATCTCCACCTCAGTGTGGGTTCCATCTTACTTGTACGTTTGCATCACTGGTT
GCTGTTTATGTTGTTGGGGGTTCTATACCAGCGACTGGTAGTGGGAGCCAAAGGAATG
GAGCAGTTTCCCACTTAGCCTTCTGGCAGGATCTTGGCAACCTGGTAGCAGATGGCTGT
GACTTTGTCTGCCGTTCTAAACCTCGAAATGTGTCTGCAGCATATCGTGGTGTGGGGGAT
GACCAGCTGGGGGAGGAGTCAGAAGAAAGGGATGACCATTTATTACCAATGTAG

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Clone variation with respect to NM_002355.3
754 c=>t



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002355 unedited
 GTGTTTCAGCCATATTTGTNAATACGCACTACTATAGGGCGGCCGGAATTCGCCGAGGG
 CCTCTGAACTAGCTCTGGGACCGGGTCTGCGGCCGGCCCTAGCTGGCCCCGTCTCCA
 TCCCCAGAAGGGTATTCACTGGGATTCTGAGCTTTGGCTACTCCAGTTTCCCACGACAC
 GATGTTCCCTTTCTACAGCTGCTGGAGGACTGGACTGCTACTACTCTCTGGCTGTGGC
 AGTGAGAGAATCCTGGCAGACAGAAGAAAAACTTGCAGCTTGGTAGGAGAAAAAGGTA
 AGAGTCAGAGAAAGATTGGCTCTAGTGAAGAGGCTGAAACCAGTGTTTAATAAAAGCTT
 TGAGAGCACTGTGGCCAGGGTTTCAGACACATACATCTACATCTTCAGGGTGTGCCGGGA
 AGCTGGCAACCACACTTCTGGGGCAGGCCTGGTGCAAATCAACAAAAGTAAATGGGAAGGA
 GACAGTGGTAGGGAGACTCAACGAGACTCACATCTTCAACGGAAGTAATTGGATCATGCT
 GATCTATAAAGGGGGTGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCAGT
 GGTGATGATCTCCTGCAATCGACACACCCTAGCGGACAATTTAACCTGTGTCTGAGGA
 GCGTGGCAAAGTCCAAGATTGTTTCTACCTCTTGAGATGGATAGCAGCCTGGCCTGTT
 ACCAGAGATCTCCACCTCAGTGTGGTCCATCTTACTGTNACGTTGCATCACTGGT
 TGCTGTTAATGTGTGGNGGGTCCCTATCCCGGACTGTTAGTGGGAGCCAAAGGATGG
 AGCAGTTCCCCACTTACCCTCTGGCAGATCCTGGCACCCCTCTAGCAGAGGCTGTGACTTG
 TCTGCGTTCTAACCCA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002355 unedited
 CCGCGCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTGGGGGTTTTTAAACATTAATAAATTTGTACCAAAGGGGAAGGT
 TTTTTTTTTTTTTTAAACACCAAGGGGGGGGGAGGGATGCCAACCAATAACAAAAA
 AAAGCTTTTGAACATTATTTCCCTGTTTAAAAAAAAAAAAAACTCCATAATATTG
 AAAAGTCCAAAAAGAAAAATTTCAATTTTTTTTCTAAGGGTAAAAAAGGCCCTG
 CCTGTTGAATCCCTCCCTTTTTGGGGCCAGGGGAGCCCTGTACTTTTTAAGGGCCAC
 GGGTTACTATTAATAAAGAACAATCCAAGTTTCTGGGCCCTGGCCAAACAGAAAA
 TGGGAGCCTCTGAGGATTAACCACTTTCCCAAAAAATGGGGGCAAAAAAACTTTC
 CTTAACCAAAAAAGGACAGGTGCCCTATTATTTACACCCACCGCACAAAGAACGAAA
 ACCCCCATGGCCACTCTCTGGCTTCCGTCCCTTTAAAAAACTGAAAAAAGGGCAC
 AACCAACTCCCTGTGAAAAAAGGCCACATTGTTAAAAAACCGGGGGGGAAACACC
 AATTAATAAAACCTTCCCACTTTTTTTCTACACATGGTGGAAATAAATTTGGGTCCCC
 CTCCCCACGGGCAACGCCTTCCCCTTTTTGGGAACCCCTGGGTGAAAAGAGTAACC
 ATTTTTCTTTCCAACACTGGATTCTTGCAAAGATTTTTGCTGCTTGTGACACAA
 AAAACACCAATACTTAATCCATTTCAATTTTCAAAGTCCCCAATTTCCAACAAAGATG
 TGAGGCGCCGCATAATCCCGCAATTGGGAACACCTAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_002355

Insert Size:

2680 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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_002355.2 , NP_002346.1
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:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>