

Product datasheet for **SC324560**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002355.2
 GGCACGAGGGAGTGGGGCACAGCGAGGCCTAGGGGGAACGCTGGCCTCTGAACTAGCT
 CTGGGACCGGGTCTGCGGCCGGCCCTAGCTGGCCCCGTCTCCCATCCCAGAAGGGTA
 TTCCTGGGGATTCTGAGCTTTGGCTACTCCAGTTTCCCACGACACGATGTTCCCTTTCT
 ACAGCTGCTGGAGGACTGGACTGCTACTACTCTCCTGGCTGTGGCAGTGAGAGAATCCT
 GGCAGACAGAAGAAAAAATTGCGACTTGGTAGGAGAAAAAGGTAAGAGTCAGAGAAAG
 AGTTGGCTCTAGTGAAGAGGCTGAAACCACTGTTTAATAAAAAGCTTTGAGAGCACTGGG
 GCCAGGGTTCAGACACATACATCTACATCTTCAGGGTGTCCCGGAAGCTGGCAACCACA
 CTTCTGGGGCAGGCCTGGTGCAAATCAACAAAAGTAATGGGAAGGAGACAGTGGTAGGGA
 GACTCAACGAGACTCACATCTTCAACGGAAGTAATTGGATCATGCTGATCTATAAAGGGG
 GTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCAGTGGTGTGATCTCCT
 GCAATCGACACACCCTAGCGACAATTTAACCCTGTGTCTGAGGAGCGTGGCAAAGTCC
 AAGATTGTTTCTACCTCTTGGATGGATAGCAGCCTGGCCTGTTACCAGAGATCTCCC
 ACCTCAGTGTGGGTTCCATCTTACTTGTACGTTTGCATCACTGGTTGCTGTTTATGTTG
 TTGGGGGTTCTATACCAGCGACTGGTAGTGGGAGCCAAGGAATGGAGCAGTTTCCCC
 ACTTAGCCTTCTGGCAGGATCTTGGCAACCTGGTAGCAGATGGCTGTGACTTTGTCTGCC
 GTTCTAAACCTCGAAATGTGCCTGCAGCATATCGTGGTGTGGGGATGACCAGCTGGGGG
 AGGAGTCAGAAGAAAGGGATGACCATTTATTACCAATGTAGATTGCACCTTATATGTCCA
 GCCTCTTCTCAGTCCCCAAACCAAGCTACACAGCCAGATTTCTCAAGCAGTCTCAAC
 TCCAGTCCCTCATCTCACCTTACTATTGCTCTTGCTTTCCAGTTTGCTTTTGATTTGCA
 TCTTCTCACTAGTAAACTGCCTTCCCTTTGTTCCCTATTTTCTGTTTTTCTCTAGAGA
 GGTACAGTTGTAAGTCAGAGTTAATAATAATAGGGCCTGTGAAAACAGAGGCTTTTGCAAT
 GTCTCTTGACATCAGAAGTTACAATAGGCATATGGGCAAAATGGTGTAGCAGGCTCACTG
 GCCGTTTGTTTTTAAACACATTTTACAAAGTTTTTGGAGACACTGGATTCTTTAATTAA
 AAAAAAATGCCAAGAAACATTATTTATACAGGTTGATTGCTTTCATGTTGTTATTCTG
 TACCCTATAGTAGCCTCCATGAGAATCTGGTATTTCTTGTGCTTGGAACTACTTTGCAG
 TGATTACTTGGTGCAGTCCAAGTACTCTCGTTTAGTCTGAGCCTGGAGATGTTCTAGAC
 TTGCTTCTCCACCTCTGAGATTAGGACAGGAAAAATGTGAAATTTCCAATTACAGGAT
 TATACGGTACCATCACATCATTTGTGAAATGGGGTACTGTATAGCTGGGATTGGCT
 AAGGACTGTGGTCTTATCTGTCCACATACAGCCAAAATGCCTATCCAGAAATCCAGTTCC
 TTGGAAAGGAAAATGGTACTCCTGTGCCACAGGGGTTCCAGAAAAGGGAAGTCACTTTA
 CCTTGGCGTGGTGGGATCCTGATGTCTTTCATCCATTTGTAGTAAAAGCTGGTAAAGCTT
 TTCTTACTCCTGGTTCCTACCAGTATTTCTAAACATGTCGCACTTTCTCCACAGGCATG
 TGGTTTTGACCTTTTTTCAATCTTCTAGAAAGGGAACGGAAGCAGAAGTGGGACATCGA
 GGGCTCTGCTGTCTCTGCGCTGGGTGTGGAAATGCTGCTGCACCTGTCCCTTCTGCTGGC
 TCAGGGAAGTGTCTTCTGCCCACATTTCTGTGGGAAAGGTTTTAATCCTCTGATGCT
 TCCATCTTCTGTTTAGGCCATGTGCCAGAAACCTGGACTGATCTTTCTTTAATAGTGA
 ACCCTGGGCCACTGAAGAGTAACATGGCTCCACTGGACAAAAAGGGGATGGAATCAA
 CAGGCAGGGGCCCTTTTATAAGCCTTAGGAAAAGAAAATGAAACTATTTTCATCTTTGGAC
 TTTTCAATACTATTGGAGTGAATTTTTTCTTTCTAAACAGGAAAATAATGTTACAAAA
 GCATCTTTTTTGTATTTGTTGTCATCCCTCCCCACACCCTGGTGTAAAAATGAAGA
 AAAAAAACCATCACTTTTTGTACAAAACCTCTAATGATTAATAAACAAACAAAAA
 AAAAAA

Restriction Sites: Please inquire

ACCN: NM_002355

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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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>