

Product datasheet for **MC221317**

Pomt1 (NM_145145) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomt1 (NM_145145) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pomt1
Synonyms:	A1505244
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221317 representing NM_145145
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGCCACTCTACGGGACTCGAAGAAACGCTCGGAGTCCCTCCGAGCTGGCTTTTCTGCAAAATGT
 TAAGATTTTTGAAACGGCCTCTAGTGGTACTGTTGACATCAATTTGAACTTGGTAGCTCTGACTGGCCT
 GGGACTACTTACCCGACTATGGCAACTCTCTACCCTCGGGCTGTGGTTTTTCGATGAAGTATATTATGGG
 CAGTACATTTCTTCTACATGAAGCGCATCTTCTTTCTGGATGACAGTGGGCCACCATTGGCCACATGC
 TACTGGCCTTAGGAGGTTGGTTAGGGGATTTCGATGGTAACTTTCTGTGGAACCGAATTGGAGCAGAGTA
 CAGTAGCAATGTGCCTATATGGTCTTACGCTGCTGCCAGCGCTTGCCGGGGCCCTGTCAGTGGCCATG
 GCCTACCAGATAGTGCTAGAGCTCCACTTTCCACGGTGTGCCATTGGAGCCGCCCTGCTGATGCTCA
 TTGAGAACGCCCTGATCACTCAGTCCAGGCTCATGCTGTTGGAGTCCATACTGATATTTTTAACCTGTT
 GGCTGTGTTGCTCTATCTGAAGTCTTCAACTCCAGACACACAGCCCTTCTCAGTGCCTGGTGGCTG
 TGGCTACTGCTGACCGGGGTCTCTTGTTCCTGTGCAGTTGGGATCAAATACATGGGGATTTTCACCTACC
 TGCTTGTGCTCGGCATTGCAGCTGTCCACGCGTGAATCTGATCGGAGACCAGACCTTGTCAAATATGCG
 CGTGCTCAGTCACTTGCTCGCCAGAATCGTGGCTCTGCTGGTCTGCCAGTCTTCTGTACTTACTCTTC
 TTCTATGTCCACCTGATGCTGCTCTACCCTCTGGGCCCATGACCAAATCATGTCCAGTGCCTTCCAGG
 CCAGCTTGAGGGAGGGCTTGCCCGCATCACCAAGGCCAGCCCTGGAGGTGGCCTTTGGTCCAGGT
 CACTCTGAAGAGCGTCTCTGGCAAACCTTGCCCTGCTGGCTTCATTGCGACAAGAACACCTATCCCATG
 ATATATGAGAAATGGCCGTGGCAGCTCCCACAGCAACAGGTGACCTGTTATCCCTTCAAAGACATCAATA
 ACTGGTGGATCGTCAAGGATCCTGGGCGACACCAGCTGGTGGTAAACAACCCCTCCCGGCCTGTAAGACA
 TGGAGACATTGTACAGCTCGTTCACGGCATGACCACCCGCTCCTTAACACGCACGATGTCGCAGCCCCA
 CTGAGCCCCATTCTCAAGAAGTCTCCTGCTACATTGACTATAACATCTCCATGCCTGCCAGAACCTCT
 GGAAACTGGACATTGTGAACAGAGAGTCCAACCGGATACCTGGAAGACTATCTGTGCGAAGTGCCTT
 TGTACATGTGAACACATCCGCCATCTTGAAGCTGAGCGGGCTCACCTCCCTGACTGGGGTTCCGGCAG
 TTGGAGGTAGTTGGGAGAAGTTGTACCAGGCTACCACGAGAGCATGGTGTGGAATGTGGAAGAACC
 GGTATGGCAAAGCCATGAGCAGAAGGAGAGGGAGCTGGAGCTCCACTCGCCACTCAGCTCGATATCAG
 CAGGAACCTCAGCTTCATGGCCAGATTCTCAGAGTTACAGTGAAGATGCTGACGCTGAAGAATGAGGAC
 TTGGAACACCAGTACAGCTCCACCCGCTGGAGTGGCTCACGCTGGACCAACATCGCCTATTGGCTAC
 ATCCCAGGACCAGTGTCTCAGATCCACTTGTGGGAACATTGTGATCTGGACTTCAGCCAGCCTTGCCAC
 AGTGGTCTACACTCTACTCTTCTTCTGGTACCTGCTCCGCCGGCGAAGGAGCATCTGTGACCTCCCTGAG
 GATGCCTGGTCCCGCTGGGTGCTGGCTGGAGCCCTGTGTACTGGCGGTGGGCACTCAACTACCTGCCCT
 TCTTCTGATGGAGAGGGTGTCTTCTCTACCTACTTGGCGCACTCACCTTCCAGATCCTGCTGCT
 CCCGATTGCTGCAGCACGCCAGCGACCATCTGTGCAGGTCCAGCTGCAGAGGAATGTCTTCACTGCC
 CTGGTTGTAGCATGGTATTCTCCGCATGCCATGTGTCCAACATGCTACGCCACTAACCTATGGGGACA
 CGTCACTCTACCAGGCGAGCTCCGGGCCCTTCGCTGGAAGACAGCTGGGATATTCTGATCCGAAAGTA
 A

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_145145
Insert Size: 2241 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_145145.1 , NP_660127.1
RefSeq Size:	2838 bp
RefSeq ORF:	2241 bp
Locus ID:	99011
UniProt ID:	Q8R2R1
Cytogenetics:	2 B
Gene Summary:	Transfers mannosyl residues to the hydroxyl group of serine or threonine residues. Coexpression of both POMT1 and POMT2 is necessary for enzyme activity, expression of either POMT1 or POMT2 alone is insufficient. Essentially dedicated to O-mannosylation of alpha-DAG1 and few other proteins but not of cadherins and protocadherins. [UniProtKB/Swiss-Prot Function]