

Product datasheet for **MR223597**

Pomt2 (NM_153415) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomt2 (NM_153415) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pomt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223597 representing NM_153415
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCTACGCCCTCAGGCCCGCTCTTAGCTGCCGGGGCGGCCACACACTTTCGCCCCGCCAGAGCCC
 GGGGCCCGCGCTCCGCGCAAACGAGGGAACACAAATCCCATGGCACCTCGAGACGCCCTTCTATGA
 CCCCTTGACGGGGCAGCGGACAAGACCCGGCGTCCCGGCCGGAGGGTGATCCTTCGGAAGGGGAGG
 ATGCCCGCGCCATAGCGGGTGGCTAGCGGGCTCCGAGCTGCGTCCCGTAGGGGCCGCTGTGTCCGC
 AGGCTGCCAGAGCCGTGAGCCGAGAGCTGGTCCCCAGGCTGCAGCACGAAACTTAAACGGCCTGCTTG
 GAGCTCGCGCGCTTCCAGGCGGCAGGGTGGTGGGCCACGTTGGCTGTGGTGACGCTGCTGTCTTTGCC
 ACCCGCTTTCACCGCTGGACCAGCCTGCTCACATCTGTTGGGATGAGACTCACTTTGAAAAATGGGAA
 GTTACTATATTAACCGCACCTTTTTCTTTGATGTGCATCCACCACTGGGAAAGATGCTGATCGGTCTTGC
 TGGCTACCTGAGCGGGTATGATGGTACCTTTCTGTTCCAGAAGCCTGGGACAGATACGAGCACCACAGC
 TACATGGGAATGAGAGGATTCTGTGCTTTCCTGGGTTCCCTGGCTGATCCCTTTGCCTACCTCACCGTAC
 TGGATCTGTCCAAGTCTTCCCAGCAGCACTGCTCACCGCTGCCCTTCTCACCTTGACACAGGATGCC
 CACTCTATCCCAGTACATCCTCCTTGACCCCATCCTGATGTTCTTCATCATGGCGGCCATGCTGAGCATG
 GTCAAGTACAACCTCTGTGCTAACAGGCCCTTCTCTGCCCCCTGGTGGTCTGGCTCAGCCTGACTGGCA
 TTAGTCTCGTGGTGTCTTAGGGGTCAAATTTGTTGGCCTCTTATCATCGTGCAAGTGGGGTTGAACAC
 TATTTAGACCTCTGGCCTCATAGTGTGCCTTTGGTGTCTATGTGACCATTTTGTCTCATGTGATG
 GCTCGCATCCTGTGCCTCATAGTGTGCCTTTGGTGTCTATGTGACCATTTTGTCTCATGTGATG
 TCTGTAATAAAAGTGGTCTGGTATGGCTTCTCAGTTCTGCCCTTCAAGCCCGGCTTTCAGGGAAACAG
 CCTTACAAATGCTTCTATCCCTGAACACCTGGCGTATGGCTCTGTAATCACTGTGAAGAATCTCCGATG
 GCCATTGGCTACCTGCACTCTCATAGGCACCTCTACCCTGAGGGCATTGGTGTCTGCCAGCAGCAGGTTA
 CCACCTATTTGCATAAGGACTACAACAACCTTGTGGATTATCAAGAAGTATAATGCCAACACAGATCCCT
 AGACCCTTCAATCCAGTGGAGTTTGTGAGACATGGAGACATCATACGACTAGAACACAAAGAACTACT
 CGGAACCTGCACAGTCACTATCATGAGGCTCCCTGACCCGGAAGCACTATCAGGCTCACTGGCTATGGCA
 TAAATGGGACAGGGGACTCAAATGACTTCTGGCGGATTGAAGTTGTAATAGAAAATTTGGGAACCGGAT
 CAAGGACTGAGAAGTGAATTCGCTCATCCATTTGGTACAGGTTGTGTCTGGGATCGTCAGGAAAG
 ATTCTGCCTAAGTGGGGCTGGGAGCAGTTGGAAGTTACCTGTACTCCGTACCTAAAAGAAACCACTAACT
 CCATTTGGAACATAGAAGAGCATATCAATCCCAAATTGCCAAACATCAGCCTGGATGTGCTGCAGCCAG
 TTTTCTGAGATCTTGTGGAGTCTCATGGTATGATCCGGGAAATAATGGCCTCAAACCAAGGAC
 AATGAGTTCACATCCAAGCCCTGGCACTGGCCTATCAATTATCAGGGCCTGCGCTTCTCAGGGGCAATG
 ACACGGACTTCCGAGTCTATCTGCTCGGCAACCCTGTGGTCTGGTGGCTGAATCTGGTGAGCATTGTCT
 CTACCTCTCTCGGGGAGCACCATTGCTGTGGCTATGCAGAGAGGGATACAACCTGCCTGCAGAGTTGCAA
 GGGCTGACCAAGGTGCTGCTGCGAGGAGGTGGCCAGCTGCTCCTGGGATGGATGCTCCATTACTTCCCTT
 TCTTCTTGATGGCCGGATCCTCTACTTCCACCACTACTCCCAGCCATGCTCTTTCCAGCATGTTGAC
 AGGTATCTATGGGATACTCTCCTGCGGCTCTGTGCCTGGGCTTGGCCCTTCTCCCCTGGGTAGGAGG
 ATACATGCGGTGGGAATCCTGAGCCTGCTTCTGACAACTGCCTACAGCTTCTACCTTCTCACCTCTGG
 CTTATGGGATGGTGGTCCCCTAGCCAGGAACCTGAGAGTCCAATGGCAGGACTGAGGTGGCTGGAATC
 ATGGGACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223597 representing NM_153415
Red=Cloning site Green=Tags(s)

MLYASGRLLAARAATLSAPPRARGPALRGKRRELQIPWHLETSPYDPLTGQRTRPGVPPARRVILRKGR
MPPAIGGGLAGSELRPRRGRCVPQAARAVSRDVVPQAAARKLKRPAWSSRRFQAAGWWATLAVVTLTLLSFA
TRFHRLDQPAHICWDETHFGKMGSYYINRTFFFDVHPPLGKMLIGLAGYLSGYDGTFLFQKPGDRYEHHS
YMGMRGFCALGSLWLPFAYLTVLDLKSFPAAALLTAALLTFDTGCLTLSQYILLDPILMFFIMAAML SM
VKYNSCANRPFSAWWFWLSTGISLAGALGVKFGVGLFIIIVQVGLNTISDLWHLFGDLSLVTVGKHLT
ARILCLIVLPLVLYVTIFAVHVMVLNKS GPGDGFSSAFQARL SGNLHNASIP EHLAYGSVITVKNLRM
AIGYLHSHRHLYPEGIGARQQQVTTYLHKDYNLWIKKYNANTDPLDPSFPVEFVRHGDIIIRLEHKETT
RNLHSHYHEAPL TRKHVYQVTGYINGTGDSDNFWRIEVVNRKFGNRIKVLRSRIRLIHLVTGCVLGSSGK
ILPKWGWQLEVTCTPYLKETTNSIWNIEEHINPKLPNISLDVLPQSFPEILLESMMIRGNGLKPKD
NEFTSKPWHWPINYOGLRFSGANDTDFRVYLLGNP VVWWLNLVSI VLYLLSGSTI AVAMQRGIQLPAELQ
GLTKVLLRGGGQLLLGWMLHYFPFFLMGRILYFHHPY PAMLFSSMLTGILWDTLLRLCAWGLAPSPLGRR
IHAVGILSLLLTTAYSFYLFHPLAYGMVGPLAQEPESMAGLRWLESWDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_h02.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_153415

ORF Size: 2460 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_153415.4](#), [NP_700464.2](#)

RefSeq Size: 5059 bp

RefSeq ORF: 2463 bp

Locus ID: 217734

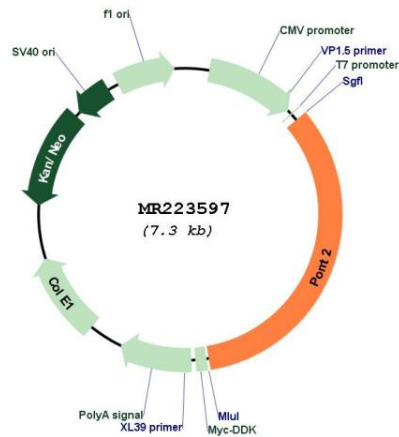
UniProt ID: [Q8BGQ4](#)

Cytogenetics: 12 D2

MW: 92.8 kDa

Gene Summary: This gene encodes an integral membrane protein that belongs to the dolichyl-phosphate-mannose-protein mannosyltransferase family. The encoded enzyme is found in the membrane of the endoplasmic reticulum. This protein is a component of the protein O-mannosyltransferase enzyme complex which is involved in modification of the protein alpha-dystroglycan. Mutations in the human gene are a cause of different forms of muscular dystrophy-dystroglycanopathy (MDDG), type A2 (also known as Walker-Warburg syndrome), type B2 and type C2 (also known as limb-girdle muscular dystrophy). [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR223597