

Product datasheet for **MG210437**

Pomt1 (NM_145145) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomt1 (NM_145145) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pomt1
Synonyms:	A1505244
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210437 representing NM_145145
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGAGCCACTCTACGGGACTCGAAGAAACGCTCGGAGTCTCCCGAGCTGGCTTTTCTGCAAAATGT
 TAAGATTTTGAACGGCCTCTAGTGGTACTGTTGACATCAATTTGAACCTGGTAGCTCTGACTGGCCT
 GGGACTACTTACCCGACTATGGCAACTCTCTACCCCTCGGGCTGTGGTTTTTCGATGAAGTATATTATGGG
 CAGTACATTTCTTCTACATGAAGCGCATCTTCTTTCTGGATGACAGTGGGCCACCATTGGCCACATGC
 TACTGGCCTTAGGAGTTGGTTAGGGGATTCGATGGTAACTTTCTGTGGAACCGAATTGGAGCAGAGTA
 CAGTAGCAATGTGCCTATATGGTCTTACGCCTGCTGCCAGCGCTTGCCGGGGCCCTGTCAGTGCCCATG
 GCCTACCAGATAGTGCTAGAGCTCCACTTTCCACGGTGTGCCATTGGAGCCGCCCTGCTGATGCTCA
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 ATATATGAGAATGGCCGTGGCAGCTCCCACCAGCAACAGGTGACCTGTTATCCCTCAAAGACATCAATA
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 GATGCCTGGTCCCGCTGGGTGCTGGCTGGAGCCCTGTGTACTGGCGGCTGGGCACTCAACTACCTGCCCT
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 CCCGATTGTCTGCAGCACGCCAGCGACCATCTGTGCAGTCCCAGCTGCAGAGGAATGTCTTCACTGCC
 CTGTTGTAGCATGGTATTCTCCCGATGCCATGTGTCCAACATGCTACGCCCACTAACCTATGGGGACA
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AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

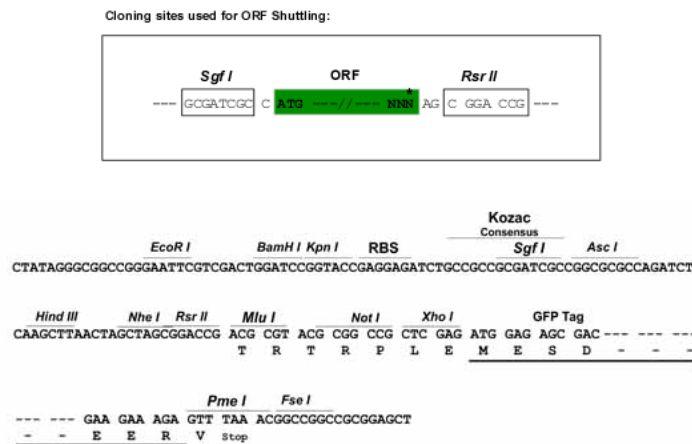
Protein Sequence: >MG210437 representing NM_145145
 Red=Cloning site Green=Tags(s)

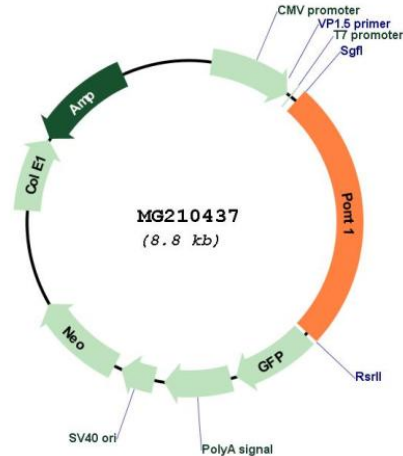
MGSHTGLEETLGVLP SWLFCKMLRFLKRPLVVTVDINLNLVALTGLGLLTRLWQLSYPRAVVFDEVYYG
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 AYQIVLELHFHSHGAAIGAALLMLIENALITQSRMLLESILIFFNLLAVLSYLFKFFNSQTHSPFSVHWL
 WLLLTVGSCSCAVGIKYMGIIFTYLLVLGIAAVHAWNLIQDQTLNMRVLSHLLARIVALLVVPVFLYLLF
 FYVHLMMLLYRSGPHDQIMSSAFQASLEGGLARITQGQPLEVAFGSQVTLKSVSGKPLPCWLHSHKNTYPM
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 LEVVGEKLSPGYHESMVWVVEEHRYGKSHEQKERELELHSPTQLDISRNLSFMARFSELQWKMLTLKNE
 LEHQYSSTPLEWLTLDNTIAYWLHPRTSAQIHLGNIVIWTSASLATVVYTLFFWYLLRRRRSICDLPE
 DAWSRVWLAGALCTGGWALNYLPFFLMERVFLYHYLPALTFQILLPIVLQHASDHLCRSOLQRNVFSA
 LVVAWYSSACHVSNMLRPLTYGDTSLSPGELRALRWKDSWDILIRK

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:


ACCN: NM_145145

ORF Size: 2238 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_145145.2](#)

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]