

Product datasheet for **MG205997**

Ptges2 (NM_133783) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptges2 (NM_133783) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ptges2
Synonyms: 0610038H10Rik; C79137; Gbf1; Mpges2; Pges2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205997 representing NM_133783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGGCGCGCCTTTCTGGGTGCTTGTCTCTAGCCGGTGCGCCCTGACTGAGGGGCTGCTCA
 CACGACCTGGCAGCCGCTCTCGGCACAGAGCCGGGCTGGCTTACCAGGGTGGCTGCCGGAAGCCGGG
 CGCCGGTCCGCAAGGGGAGCCCGGTTGCTGGGGCGCGGCTGGCCCTGGGCGCGCTGGG
 CTGTACCACACCGTGGGTGGCACCAGCGTTCCAGGACCTCCGCGGGAGCGCTCGGCTGCGCAGTGC
 CCCTGTGCAACAGCCTGCAGCTGACCCTGTACCAGTACAAGACATGTCCCTTCTGCAGCAAAGTCCGTGC
 TTCTCTGACTTCCACTCCCTGCCCTATCAGGTGGTGGAGGTGAATCCCCTGAGAAGGACTGAGATCAAA
 TTCTCCTCTACAGGAAAGTGCCCATCTTGGTGGCCAGGAAGGAGACAGCTTGAACAGCTCAATGACT
 CCTCTGTATCATTAGTGCCCTCAAGACCTACCTGGTTTCAGGGCAGCCCTGGAAGAGGTCACTACTTA
 TTACCCACCCATGAAGGCCATGAATGACCAGGGCAAGGAGGTGACCGAGTTTTGCAACAAGTACTGGCTC
 ATGCTGGACGAGAAGGAGGCCAGCAGATGTATGGCGGGAAGGAAGCCAGGACGGAGGAGATGAAGTGGC
 GGCAGTGGGCGGATGACTGGCTGGTGCATCTCATCTCTCCAACGTGTACCGAACCCCGCTGAGGCCTT
 GGCTTCCCTCGACTACATTGTCCGTGAGGGCAAGTTTGGGCTGTGGAGGCTGCCATGGCCAAGTATGTG
 GGCGCGGCTGCCATGTACCTCATCAGCAAGCGCCTCAAAGCAGGCACCCTGCAGGATGATGTACGGG
 TAGACCTCTATGAAGCAGCCAACAAGTGGGTGACAGCCGTGGGTAAGACCGGCCATTATGGGGGGTCA
 GAAGCCTAACCTTGTGACCTGGCAGTGTATGGTGTGCTGCGAGTGATGGAGGGTCTGGAGGCCCTCGAC
 GACCTGATGCGACTCACATCCAGCCTTGGTACCTGCGGATGGAGCGGGCCATTGAAGAAGCCCTT
 CGGTGCATCATGTCAACCCTAGCTGCAAAGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205997 representing NM_133783
 Red=Cloning site Green=Tags(s)

MAQAARLSWVLVSSRCALTEGLLTRPWQPLSAQSRAGFTRVAAGSRGAAVRKGSPRLLGAAALALGGALG
 LYHTVRWHQRSQDLRAERSAAQLPLSNLQLTL YQYKTCPFCSKVRAFLDFHSLPYQVVEVNPVRRTEIK
 FSSYRKVPILVAQEGDSLQQLNDSSVII SALKTYLVSGQPLEEVI TTYPPMKAMNDQGKEVTEFCNKYWL
 MLDEKEAQMYGKKEARTEEMKWRQWADDWL VHLI SPNVYRTPAEALASFDYIVREGKFGAVEAAMAKYV
 GAAAMYLI SKRLKSRHHLQDDVRVDLYEAANKWVTAVGKDRPFMGGQKPNLADLAVYGVLRVMEGLEAFD
 DLMRHSIQPWYLRMERAIEEAPSVHHVNPCKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133783

ORF Size: 1152 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_133783.2](#), [NP_598544.2](#)

RefSeq Size: 1969 bp

RefSeq ORF: 1155 bp

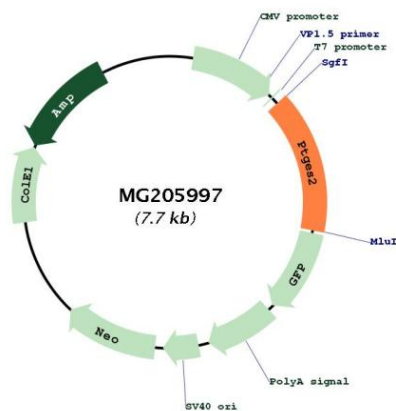
Locus ID: 96979

UniProt ID: [Q8BWM0](#)

Cytogenetics: 2 B

Gene Summary: The protein encoded by this gene is a Golgi membrane-associated prostaglandin E synthase candidate, which is capable of catalyzing the conversion of prostaglandin H2 to prostaglandin E2 in vitro. However, a study using mice deficient of this gene suggests that this enzyme does not contribute to prostaglandin E2 biosynthesis in vivo. This protein is synthesized as a Golgi membrane-bound protein, but its N-terminal hydrophobic region is cleaved off during protein maturation to produce the predominant soluble truncated form that still retains the enzyme activity. This soluble protein also has been shown to activate the transcription regulated by a gamma-interferon-activated transcription element (GATE), possibly via an interaction with CAAAT/enhancer-binding protein-beta. [provided by RefSeq, Oct 2009]

Product images:



Circular map for MG205997