

Product datasheet for MR205997

Ptges2 (NM_133783) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ptges2 (NM_133783) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ptges2
Synonyms:	0610038H10Rik; C79137; Gbf1; Mpges2; Pges2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205997 representing NM_133783 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGGGCGCGCCTTTTCGTGGGTGCTTGTCTCTAGCCGGTGCGCCCTGACTGAGGGGCTGCTCA
CACGACCCTGGCAGCCGCTCTCGGCACAGAGCCGGGTGGCTTACCAGGGTGGCTGCCGGAAGCCGGG
CGCCGGTCCGCAAGGGGAGCCCGGTTGCTGGGGCGCGGCTGGCCCTGGCGGCGCGCTGGG
CTGTACCACACCGTGGTGGCACCAGCGTTCCAGGACCTCCGCGGGAGCGCTCGGCTGCGCAGCTGC
CCCTGTGCAACAGCCTGCAGCTGACCCTGTACCAGTACAAGACATGTCCCTTCTGCAGCAAAGTCCGTGC
TTCTCTGACTTCCACTCCCTGCCCTATCAGGTGGTGGAGGTGAATCCCCTGAGAAGGACTGAGATCAAA
TTCTCCTCTACAGGAAAGTGCCCATCTTGGTGGCCAGGAAGGAGACAGCTTGAACAGCTCAATGACT
CCTCTGTATCATTAGTGCCCTCAAGACCTACCTGGTTTCAGGGCAGCCCTGGAAGAGGTCACTACTTA
TTACCCACCCATGAAGGCCATGAATGACCAGGGCAAGGAGGTGACCGAGTTTTGCAACAAGTACTGGCTC
ATGCTGGACGAGAAGGAGGCCAGCAGATGTATGGCGGGAAGGAAGCCAGGACGGAGGAGATGAAGTGGC
GGCAGTGGGCGGATGACTGGCTGGTGCATCTCATCTCCCAACGTGTACCGAACCCCGCTGAGGCCTT
GGCTTCCCTCGACTACATTGTCCGTGAGGGCAAGTTTGGGGCTGTGGAGGCTGCCATGGCCAAGTATGTG
GGCGCGGCTGCCATGTACCTCATCAGCAAGCGCCTCAAAGCAGGACCCCTGCAGGATGATGTACGGG
TAGACCTCTATGAAGCAGCCAACAAGTGGGTGACAGCCGTGGGTAAAGACCGGCCATTATGGGGGGTCA
GAAGCCTAACCTTGTGACCTGGCAGTGTATGGTGTGCTGCGAGTGTGAGGGTCTGGAGGCTTTCGAC
GACCTGATGCGACACTCACATCCAGCCTTGGTACCTGCGGATGGAGCGGGCCATTGAAGAAGCCCTT
CGGTGCATCATGTCAACCCTAGCTGCAAAGAC

ACGGTACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205997 representing NM_133783
Red=Cloning site Green=Tags(s)

MAQAARLSWLVSSRCALTEGLLTRPWQPLSAQSRAGFTRVAAGSRGAAVRKGGSPRLLGAAALALGGALG
 LYHTVRWHQRSQDLRAERSAAQLPLSNLQLTL YQYKTCPFCSKVRAFLDFHSLPYQVVEVNPVRRTEIK
 FSSYRKVPILVAQEGDSLQQLNDSSVII SALKTYLVSGQPLEEVI TYPPMKAMNDQGKEVTEFCNKYWL
 MLDEKEAQMYGGKEARTEEMKWRQWADDWL VHLI SPNVYRTPAEALASFYDI VREGKFGAVEAAMAKYV
 GAAAMYLI SKRLKSRHHLQDDVRVDLYEAANKWVTAVGKDRPFMGGQKPNLADLAVYGVLRVMEGLEAFD
 DLMRHSHIQPWYLRMERAIEEAPSVHHVNPCKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

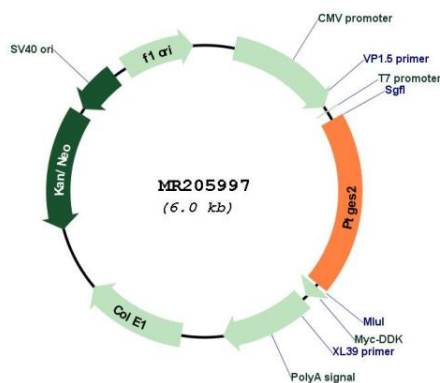
UniProt ID: [Q8BWM0](#)

Cytogenetics: 2 B

MW: 43.8 kDa

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 MR205997