

Product datasheet for **MG215806**

Ptges3 (NM_019766) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptges3 (NM_019766) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ptges3
Synonyms: 5730442A20Rik; cPGES; p23; Ptges; sid3177; Tebp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215806 representing NM_019766
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCCTGCTTCTGCAAAGTGGTACGATCGAAGGGACTATGTATTCATTGAATTTGTGTTGAAGACA
GTAAGATGTTAATGTAACTTTGAAAAATCCAACTTACTTTTCAGTTGTCTGGAGGAAGCATAATTT
TAAGCATTTAAATGAAATTGATCTTTTTCATTGTATCGATCCAAATGATCCAAGCATAAAAGAACAGAC
AGATCGATTTTATGTTGTTTGCAAAAGGAGAATCCGGCCAGTCATGGCCTAGGTTAACAAAGGAAAGGG
CAAAGCTTAATTGGCTCAGTGTGGACTTCAATAATTGAAAAGACTGGGAGGATGACTCAGATGAAGACAT
GTCGAATTTGACCGTTTCTCTGAGATGATGGATCACATGGGTGGTATGAGGATGTAGATTTACCAGAA
GTAGATGGAGCAGATGATGATTCACAAGACAGTATGATGAAAAGATGCCAGATCTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215806 representing NM_019766
Red=Cloning site Green=Tags(s)

MQPASAKWYDRRDYVFIIEFCVEDSKDVNVNFEKSKLTFSCLLGGSDNFKHLNEIDL FHCIDPNSDKHKRTD
RSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDDSDEMSNFD RFSSEMMDHMGGDEDVDLPE
VDGADDDSQDSDDEKMPDLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



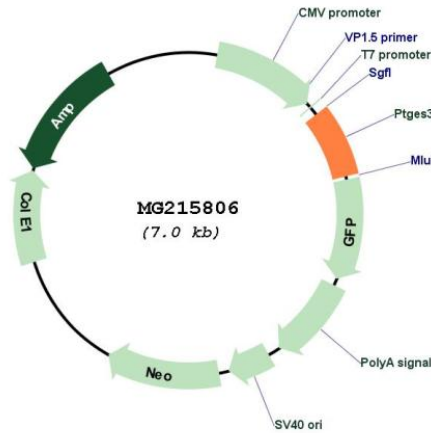
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Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_019766

ORF Size: 480 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:	<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:	<u>NM_019766.4, NP_062740.1</u>
RefSeq Size:	1954 bp
RefSeq ORF:	483 bp
Locus ID:	56351
UniProt ID:	<u>Q9R0Q7</u>
Cytogenetics:	10 D3
Gene Summary:	Cytosolic prostaglandin synthase that catalyzes the oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2). Molecular chaperone that localizes to genomic response elements in a hormone-dependent manner and disrupts receptor-mediated transcriptional activation, by promoting disassembly of transcriptional regulatory complexes. Facilitates HIF alpha proteins hydroxylation via interaction with EGLN1/PHD2, leading to recruit EGLN1/PHD2 to the HSP90 pathway.[UniProtKB/Swiss-Prot Function]