

Product datasheet for **MG204840**

Ptgr1 (NM_025968) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ptgr1 (NM_025968) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ptgr1
Synonyms: 2510002C21Rik; Ltb4dh; Zadh3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204840 representing NM_025968
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCAGGCCAAGAGCTGGACCCTGAAGAAGCACTTCGAAGGCTTCCCTACGGACGGTAACTTCGAGT
TGAAGACGACTGAGCTCCCACCCTTAAATAATGGAGAGGTCTGCTGGAAGCCCTGTTCTCTCTGTGGA
TCCTTACATGAGAGTTGCAGCCAAAAAAGTGAAGGAGGGCGACAGGATGATGGGCGAGCAAGTGGCCAGA
GTCGTGAAAAGTAAAACTCAGCCTTCCAAAAGGAACGATTGTAGCGGCTTTATTAGGTTGGACATCAC
ATTCCATTTCTGATGGGAATGGACTGACAAAGCTGCCTGTAGAGTGGCCGACAAGTTGCCACTGTCTTT
GGCACTGGGACAGTTGGCATGCCAGGCCCTCACTGCCTACTTTGGCCTGCTTGACATCTGTGGCGTGAAG
GGTGGAGAAACCGTGATGGTCAGCGCAGCAGCAGGAGCAGTGGGCTCTGTTGTGGGCGAGATAGCTAAGC
TCAAGGGCTGCAAAGTTGTTGGTACAGCAGGGTCTGATGAAAAGGTTGCCTATCTTAAGAAGCTTGATT
CGACGTGGCCTTAACTACAAGACAGTAAAGTCACTGGAGGAAGCTTTGAGGACAGCCTCTCCCGATGGT
TATGATTGCTATTTTGATAATGTAGGTGGAGAGTTTTCAAACGCTGTTATACTCCAGATGAAGACATTTG
GAAGGATTGCCATCTGTGGTGCCATCTCTCAATACAACCGTACTGGACCATGTCCCAGGGCCCCAGCCCC
AGAGGTGGTTATCTATCAGCAACTCCGCATGGAGGGTTCATCGTGAATCGGTGGCAAGGAGAAGTCCGC
CAGAAGGCTCTGACAGAGTTGATGAATTGGGTCTCAGAGGGTAAAGTCCAGTATCATGAACACGCTACTG
AAGGATTTGAGAAAATGCCCGCAGCATTATGGGAATGTTGAAAGGAGAAAATCTGGGGAAGACCATAGT
GAAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204840 representing NM_025968
 Red=Cloning site Green=Tags(s)

MVQAKSWTLKKHFEGFPTDGNFELKTTELPLNNGEVLLEALFLSVPYMRVAAKLLKEGDRMMGEQVAR
 VVESKNSAFPKGTVIAALLGWTSHSISDGNLTKLPVEWPKLPLSLALGTVGMPGLTAYFGLLDICGVK
 GGETVMVSAAGAVGSSVVGQIAKLGCKVVGTAGSDEKVAYLKKLGFDFVAFNYKTVKSLEALRTASPDG
 YDCYFDNVGGEFNAVILQMKTFGRIACGAISQYNRTGPCPQGAPEVVIYQQLRMEGFI VNRWQGEVR
 QKALTELMNVVSEKGVQYHEHVTEGF EKMPAAF MGMLKGENLGKTIVKA

TRTRPLE - GFP Tag - V

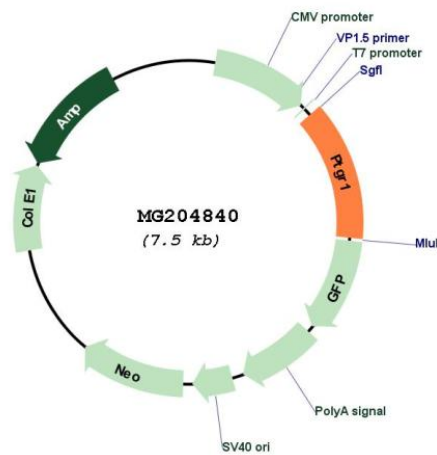
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_025968

ORF Size: 987 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:	NM_025968.2 , NP_080244.1
RefSeq Size:	2105 bp
RefSeq ORF:	990 bp
Locus ID:	67103
UniProt ID:	Q91YR9
Cytogenetics:	4 B3
Gene Summary:	Functions as 15-oxo-prostaglandin 13-reductase and acts on 15-oxo-PGE1, 15-oxo-PGE2 and 15-oxo-PGE2-alpha. Has no activity towards PGE1, PGE2 and PGE2-alpha. Catalyzes the conversion of leukotriene B4 into its biologically less active metabolite, 12-oxo-leukotriene B4. This is an initial and key step of metabolic inactivation of leukotriene B4 (By similarity). [UniProtKB/Swiss-Prot Function]