

Product datasheet for **RG206692**

PTGR1 (NM_012212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGR1 (NM_012212) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTGR1
Synonyms:	DIG-1; LTB4DH; PGR1; ZADH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206692 representing NM_012212 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTCGTAAGACATGGACCCTGAAGAAGCACTTTGTTGGCTATCCTACTAATAGTGACTTTGAGT
TGAAGACATCTGAGCTCCACCCTTAAAAATGGAGAGGTCTGCTTGAAGCTTTGTTCCCTACCGTGGA
TCCCTACATGAGAGTGGCAGCCAAAAGATTGAAGGAAGGTGATACAATGATGGGGCAGCAAGTGGCCAAA
GTTGTGGAAAGTAAAAATGTAGCCCTACCAAAAGGAACATTGTACTGGCTTCTCCAGGCTGGACAACGC
ACTCCATTTCTGATGGGAAAGATCTGAAAAGCTGCTGACAGAGTGGCCAGACACAATACCACTGTCTTT
GGCTCTGGGACAGTTGGCATGCCAGGCCCTGACTGCCTACTTTGGCCTACTTGAAATCTGTGGTGTGAAG
GGTGGAGAAACAGTGATGGTTAATGCAGCAGCTGGAGCTGTGGGCTCAGTCGTGGGCAGATTGCAAAGC
TCAAGGGCTGCAAAGTTGTTGGAGCAGTAGGGTCTGATGAAAAGGTTGCCTACCTTCAAAGCTTGGATT
TGATGTCGCTTTAACTACAAGACGGTAGAGTCTTTGGAAGAAACCTTGAAGAAAGCGTCTCCTGATGGT
TATGATTGTTATTTTATAATGTAGGTGGAGAGTTTTCAAACACTGTTATCGCCAGATGAAGAAATTTG
GAAGGATTGCCATATGTGGAGCCATCTACATATAACAGAACCAGCCCACTTCCCCAGGCCACCCCC
AGAGATTGTTATCTATCAGGAGCTTCGCATGGAAGCTTTTGTCTACCCTGGCAAGGAGATGCCCGC
CAAAAAGCTCTGAAGACTTGCTGAAATGGGTCTTAGAGGGTAAAATCCAGTACAAGGAATATATCATTG
AAGGATTTGAAAACATGCCAGCCGCAATTTATGGGAATGCTGAAAGGAGATAATTTGGGGAAGACAATAGT
GAAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206692 representing NM_012212
Red=Cloning site Green=Tags(s)

MVRTKTWTLKKHFVGYPTNSDFELKTSELPLKNGEVLLLEALFLTVDPYMRVAAKRLKEGDTMMGQQVAK
 VVESKNVALPKGTIVLASPGWTHSISDGKDLEKLLTEWPDTIPLSLALGTVGMPGLTAYFGLLEICGVK
 GGETVMVNAAGAVGSSVVGQIAKLGCKVVGAVGSDEKVAYLQKLGFDVVFNYKTVESLEETLKKASPDG
 YDCYFDNVGGEFSNTVIGQMKKFGRIACGAISTYNRTGPLPPGPPPEIIVYQELRMEAFVYRWQGDAR
 QKALKDLLKWVLEGKIQYKEYIIEGFENMPAAFMGMLKGDNLGKTIVKA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012212

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:

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_012212.2](#), [NP_036344.1](#)

RefSeq Size: 1257 bp

RefSeq ORF: 990 bp

Locus ID: 22949

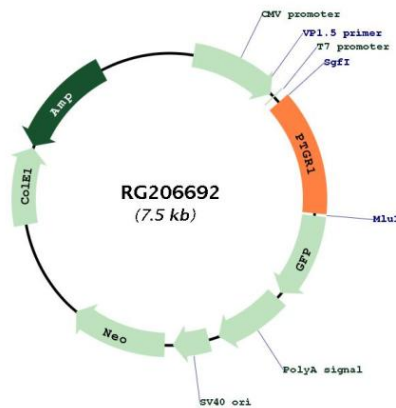
UniProt ID: [Q14914](#)

Cytogenetics: 9q31.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes an enzyme that is involved in the inactivation of the chemotactic factor, leukotriene B4. The encoded protein specifically catalyzes the NADP+ dependent conversion of leukotriene B4 to 12-oxo-leukotriene B4. A pseudogene of this gene is found on chromosome 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RG206692