

Product datasheet for RC206692

PTGR1 (NM_012212) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGR1 (NM_012212) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PTGR1
Synonyms:	DIG-1; LTB4DH; PGR1; ZADH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206692 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGTTTCGTAAGACATGGACCCTGAAGAAGCACTTTGTTGGCTATCCTACTAATAGTGACTTTGAGT
TGAAGACATCTGAGCTCCACCCTTAAAAATGGAGAGGTCTGCTTGAAGCTTTGTTCCCTACCGTGGA
TCCCTACATGAGAGTGGCAGCCAAAAGATTGAAGGAAGGTGATACAATGATGGGGCAGCAAGTGGCCAAA
GTTGTGGAAAGTAAAAATGTAGCCCTACAAAAGGAACATTGTACTGGCTTCTCCAGGCTGGACAACGC
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GGCTCTGGGACAGTTGGCATGCCAGGCCTGACTGCCTACTTTGGCCTACTTGAAATCTGTGGTGTGAAG
GGTGGAGAAACAGTGATGGTTAATGCAGCAGCTGGAGCTGTGGGCTCAGTCGTGGGCAGATTGCAAAGC
TCAAGGGCTGCAAAGTTGTTGGAGCAGTAGGGTCTGATGAAAAGGTTGCCTACCTTCAAAGCTTGGATT
TGATGTCGCTTTAACTACAAGACGGTAGAGTCTTTGGAAGAAACCTTGAAGAAAGCGTCTCCTGATGGT
TATGATTGTTATTTGATAATGTAGGTGGAGAGTTTTCAAACACTGTTATCGCCAGATGAAGAAATTTG
GAAGGATTGCCATATGTGGAGCCATCTACATATAACAGAACCGGCCACTTCCCCAGGCCACCCCC
AGAGATTGTTATCTATCAGGAGCTTCGCATGGAAGCTTTTGTCTCTACCGCTGGCAAGGAGATGCCCGC
CAAAAAGCTCTGAAGACTTGCTGAAATGGGTCTTAGAGGGTAAAATCCAGTACAAGGAATATATCATTG
AAGGATTTGAAAACATGCCAGCCGATTTATGGGAATGCTGAAAGGAGATAATTTGGGGAAGACAATAGT
GAAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206692 protein sequence
Red=Cloning site Green=Tags(s)

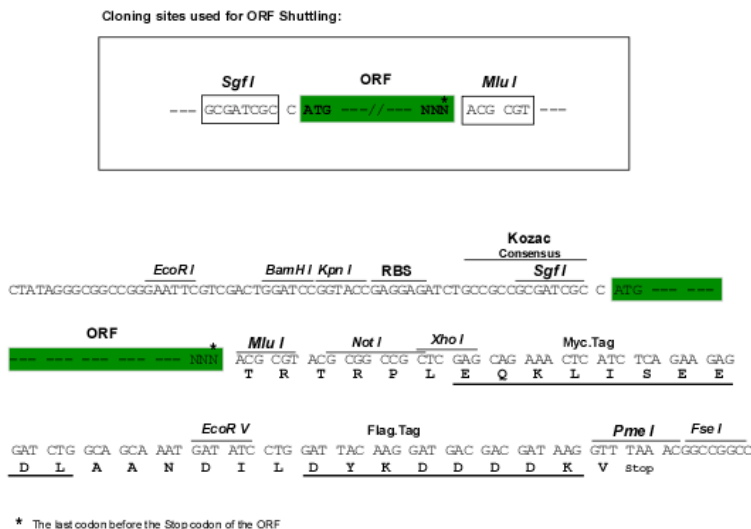
MVRTKTWTLKKHFVGYPTNSDFELKTSELPLKNGEVLLLEALFLTVDPYMRVAAKRLKEGDTMMGQQVAK
 VVESKNVALPKGTIVLASPGWTTTHSIDGKDLEKLLTEWPDITPLSLALGTVGMPGLTAYFGLLEICGVK
 GGETVMVNAAGAVGSVVGQIAKLGCKVVGAVGSDEKVAYLQKLGFDVVFNYKTVESLEETLKKASPDG
 YDCYFDNVGGEFSNTVIGQMKKFGRIAICGAISTYNRTGPLPPGPPPEIVIIYQELRMEAFVYRWQGDAR
 QKALKDLLKWVLEGKIYKEYIIIEGFENMPAAFMGMLKGDNLGKTIVKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6332_f02.zip

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: 1249 bp

RefSeq ORF: 990 bp

Locus ID: 22949

UniProt ID: [Q14914](#)

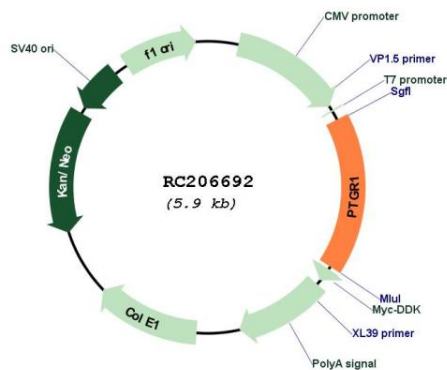
Cytogenetics: 9q31.3

Protein Families: Druggable Genome

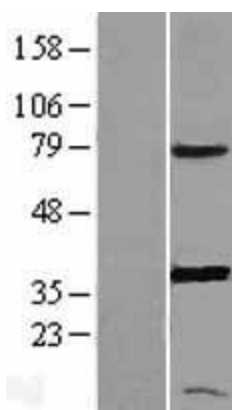
MW: 35.9 kDa

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]

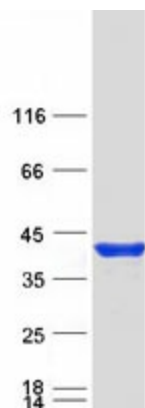
Product images:



Circular map for RC206692



Western blot validation of overexpression lysate (Cat# [LY431853]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC228825] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTGR1 protein (Cat# [TP306692]). The protein was produced from HEK293T cells transfected with PTGR1 cDNA clone (Cat# RC206692) using MegaTran 2.0 (Cat# [TT210002]).