

Product datasheet for **SC327460**

PTGR1 (NM_001146108) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGR1 (NM_001146108) Human Untagged Clone
Tag:	Tag Free
Symbol:	PTGR1
Synonyms:	DIG-1; LTB4DH; PGR1; ZADH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327460 representing NM_001146108. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGTTCGTACTAAGACATGGACCCTGAAGAAGCACTTTGTTGGCTATCCTACTAATAGTGACTTTGAG
 TTGAAGACAGCTGAGCTCCACCCCTAAAAATGGAGAGGTCTGCTTGAAGCTTTGTTCTCACCGTG
 GATCCCTACATGAGAGTGGCAGCCAAAAGATTGAAGGAAGGTGATACAATGATGGGCAGCAAGTGGCC
 AAAGTTGTGAAAGTAAAAATGTAGCCCTACCAAAAGGAATTTGTACTGGCTTCTCCAGGCTGGACA
 ACGCACTCCATTTCTGATGGGAAAGATCTGAAAAGCTGCTGACAGAGTGGCCAGACACAATACCACTG
 TCTTTGGCTCTGGGACAGTTGGCATGCCAGGCCTGACTGCCTACTTTGGCCTACTTGAAATCTGTGGT
 GTGAAGGGTGGAGAAACAGTGATGGTTAATGCAGCAGCTGGAGCTGTGGGCTCAGTCGTGGGCAGATT
 GCAAAGCTCAAGGGCTGCAAAGTTGTTGGAGCAGTAGGGTCTGATGAAAAGGTTGCCTACCTTCAAAG
 CTTGGATTTGATGCTCTTTAACTACAAGACGGTAGAGTCTTTGGAAGAAACCTGAAGAAAGCGTCT
 CCTGATGGTTATGATTGTTATTTTGATAATGTAGGTGGAGAGTTTTCAAACACTGTTATCGGCCAGATG
 AAGAAATTTGGAAGGATTGCCATATGTGGAGCCATCTCTACATATAACAGAACCGGCCCACTTCCCCCA
 GGCCACCCCCAGAGATTGTTATCTATCAGGAGCTTCGCATGGAAGCTTTTGTCTCTACCGCTGGCAA
 GGAGATGCCCGCCAAAAGCTCTGAAGGACTTGCTGAAATGGGTCTTAGAGGGTAAATCCAGTACAAG
 GAATATATCATTGAAGGATTTGAAAACATGCCAGCTGCATTTATGGGAATGCTGAAAGGAGATAATTTG
 GGGAAGACAATAGTGAAAGCATGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001146108
Insert Size:	990 bp


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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001146108.1](#)

RefSeq Size: 1409 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Both variants 1 and 2 encode the same isoform (1).