

Product datasheet for **RG228825**

PTGR1 (NM_001146108) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTGR1 (NM_001146108) 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: >RG228825 representing NM_001146108
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTTTCGTAAGACATGGACCCTGAAGAAGCACTTTGTTGGCTATCCTACTAATAGTGACTTTGAGT
 TGAAGACATCTGAGCTCCACCCTTAAAAATGGAGAGGTCTGCTTGAAGCTTTGTTCCCTACCGTGGA
 TCCCTACATGAGAGTGGCAGCCAAAAGATTGAAGGAAGGTGATACAATGATGGGGCAGCAAGTGGCCAAA
 GTTGTGGAAAGTAAAAATGTAGCCCTACCAAAAGGAACATTGTACTGGCTTCTCCAGGCTGGACAACGC
 ACTCCATTTCTGATGGGAAAGATCTGAAAAGCTGCTGACAGAGTGGCCAGACACAATACCACTGTCTTT
 GGCTCTGGGACAGTTGGCATGCCAGGCCTGACTGCCTACTTTGGCCTACTTGAAATCTGTGGTGTGAAG
 GGTGGAGAAACAGTGATGGTTAATGCAGCAGCTGGAGCTGTGGGCTCAGTCGTGGGGCAGATTGCAAAGC
 TCAAGGGCTGCAAAGTTGTTGGAGCAGTAGGGTCTGATGAAAAGGTTGCCTACCTTCAAAGCTTGGATT
 TGATGTCGCTTTAACTACAAGACGGTAGAGTCTTTGGAAGAAACCTTGAAGAAAGCGTCTCCTGATGGT
 TATGATTGTTATTTGATAATGTAGGTGGAGAGTTTTCAAACACTGTTATCGCCAGATGAAGAAATTTG
 GAAGGATTGCCATATGTGGAGCCATCTACATATAACAGAACCGGCCACTTCCCCAGGCCACCCCC
 AGAGATTGTTATCTATCAGGAGCTTCGCATGGAAGCTTTTGTCTACCCTGGCAAGGAGATGCCCGC
 CAAAAAGCTCTGAAGACTTGCTGAAATGGGTCTTAGAGGGTAAAATCCAGTACAAGGAATATATCATTG
 AAGGATTTGAAAACATGCCAGCCGCAATTTATGGGAATGCTGAAAGGAGATAATTTGGGGAAGACAATAGT
 GAAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228825 representing NM_001146108
 Red=Cloning site Green=Tags(s)

MVRTKTWTLKKHFVGYPTNSDFELKTSELPLKNGEVLLLEALFLTVDPYMRVAAKRLKEGDTMMGQQVAK
 VVESKNVALPKGTIVLASPGWTHSISDGKDLEKLLTEWPDTIPLSLALGTVGMPGLTAYFGLLEICGVK
 GGETVMVNAAGAVGSSVVGQIAKLGCKVVGAVGSDEKVAYLQKLGFDVVFNYKTVESLEETLKKASPDG
 YDCYFDNVGGEFSNTVIGQMKKFGRIAICGAISTYNRTGPLPPGPPPEIIVYQELRMEAFVYRWQGDAR
 QKALKDLLKWVLEGKIYKEYIIEGFENMPAAFMGMLKGDNLGKTIVKA

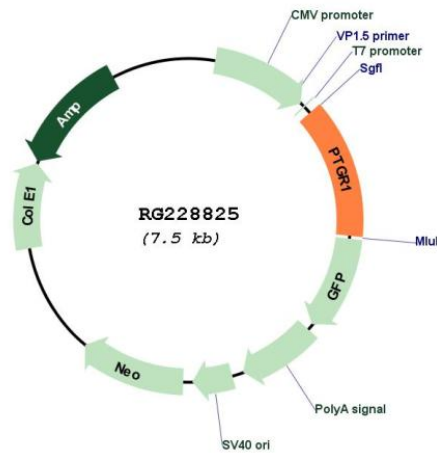
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001146108

ORF Size: 987 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001146108.1 , NP_001139580.1
RefSeq Size:	1409 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]