

Product datasheet for **RG228235**

PTGR1 (NM_001146109) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTGR1 (NM_001146109) 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: >RG228235 representing NM_001146109
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTCGTAAGACATGGACCCTGAAGAAGCACTTTGTTGGCTATCCTACTAATAGTGACTTTGAGT
TGAAGACAGCTGAGCTCCACCCTTAAAAATGGAGAGGTCTGCTTGAAGCTTTGTTCCCTACCGTGGA
TCCCTACATGAGAGTGGCAGCCAAAAGATTGAAGGAAGGTGATACAATGATGGGGCAGCAAGTGGCCAAA
GTTGTGGAAAGTAAAAATGTAGCCCTACCAAAGGAAGTATTGTACTGGCTTCTCCAGGCTGGACAACGC
ACTCCATTTCTGATGGGAAAGATCTGAAAAGCTGCTGACAGAGTGGCCAGACACAATACCACTGTCTTT
GGCTCTGGGGACAGTTGGCATGCCAGGCCCTGACTGCCTACTTTGGCCTACTTGAAATCTGTGGTGTGAAG
GGTGGAGAAACAGTGATGGTTAATGCAGCAGCTGGAGCTGTGGGCTCAGTCGTGGGGCAGATTGCAAAGC
TCAAGGGCTGCAAAGTTGTTGGAGCAGTAGGGTCTGATGAAAAGGTTGCCTACCTTCAAAGCTTGATT
TGATGTCGCTTTAACTACAAGACGGTAGAGTCTTTGGAAGAAACCTTGAAGAAAGCGTCTCCTGATGGT
TATGATTGTTATTTTATAATGTAGGTGGAGAGTTTTCAAACACTGTTATCGGCCAGATGAAGAAATTTG
GAAGGATTGCCATATGTGGAGCCATCTCTACATATAACAGAACCAGCCACTTCCCCAGGCCACCCCC
AGAGATTGTTATCTATCAGGAGCTTCGCATGGAAGCTTTTGTCTCTACCGCTGGCAAGGAGATGCCCGC
CAAAAAGCTCTGAAGACTTGCTGAAATGGGTCTTAGAGATCAAAGAGAAAAATGAAGAAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG228235 representing NM_001146109
Red=Cloning site Green=Tags(s)

MVRTKTWTLKKHFVGYPTNSDFELKTAELPPLKNGEVLLLEALFLTVDPYMRVAAKRLKEGDTMMGQQVAK
 VVESKNVALPKGTIVLASPGWTHSISDGKDLEKLLTEWPDITPLSLALGTVGMPGLTAYFGLLEICGVK
 GGETVMVNAAGAVGSSVVGQIAKLGCKVVGAVGSDEKVAYLQKLGFDVVFNYKTVESLEETLKKASPDG
 YDCYFDNVGGEFSNTVIGQMKKFGRIAICGAISTYNRTGPLPPGPPPEIIVYQELRMEAFVYRWQGDAR
 QKALKDLLKWLLEIKRENEED

TRTRPLE - GFP Tag - V

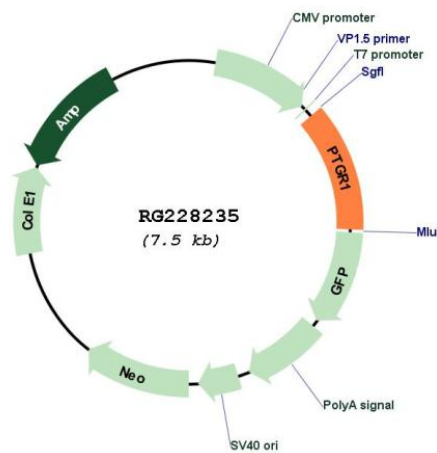
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001146109

ORF Size: 903 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_001146109.1 , NP_001139581.1
RefSeq Size:	1220 bp
RefSeq ORF:	906 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]