

Product datasheet for **RG208597**

EP1 (PTGER1) (NM_000955) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EP1 (PTGER1) (NM_000955) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTGER1
Synonyms:	EP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208597 representing NM_000955 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCCTTGCGGGCCCTCAACCTGAGCCTGGCGGGCAGGCGACCACATGCGCGGCCCTGGGTCC
CCAACACGTGGCCGTGCCGCCGTCGGCGCCTCGCCCGCTGCCATCTTCTCCATGACGCTGGGCGC
CGTGTCCAACCTGCTGGCGCTGGCGCTGCTGGCGCAGGCCGCGGGCCGCTGCGACGCCCGCTCGGC
GCCACCTCCTGCTGTTCTGTGCCAGCCTGCTGGCCACCGACCTGGCGGGCCACGTGATCCCGGGCGCG
TGGTGCTGCGTCTGTACTGCGGGCGCGCTCCGCGCGCGGGCCTGCCACTTCTGGCGGCTGCAT
GGTCTTCTCGGCCTGTGCCCGCTGCTGCTGGGCTGTGGCATGGCCGTGGAGCGCTGCGTGGGCGTCACG
CGGCCGCTGCTCCACGCCGCGGGTCTCGGTGCGCCGCGCGCCTGGCGCTGGCCGCGGTGGCCGCGG
TGGCCTTGGCCGTGGCGCTGCTGCCGCTGGCGCGCTGGGCGCCTATGAGCTGCAGTACCCGGGCACGTG
GTGCTTACATCGGCCTGGGTCCCCGGGCGGCTGGCGCCAGGCACTGCTTGTGGCCTCTTCGCCAGCCTC
GGCCTGGTCGCGCTCCTCGCCGCGCTGGTGTGCAACACGCTCAGCGGCCCTGGCCCTGCTACGCGCCCGT
GGCGACGCCGCTCCCGACGGCCTCCCCGGCCTCAGGCCCGACAGCCGGCGTGGTGGGGGCGCACGG
ACCCCGCTCGGCCTCCGCTCGTCCGCTCGTCCATCGCTTGGCCTCCACCTTCTTTGGCGGCTCTCGG
AGCAGCGGCTCGGCACGAGAGCTCGCGCCACGACGTGGAGATGGTGGCCAGCTTGTGGTATCATGG
TGGTGTGTCATCTGCTGGAGCCAATGCTGGTGGTGGCGCTGGCCGTGGCGGCTGGAGCTGACTAC
CTCCCTGCAGCGCCACTATTCTGGCCGTGCGCCTTGCCTCCTGGAACAGATCCTGGACCCTTGGGTG
TACATCTACTGCGCCAGGCGTGTGCGCAACTGCTTGCCTCTTGGCCCCGAGGGCCGGAGCCAAGG
GCGGCCCGCGGGGCTGGCCTAACACCGAGCGCCTGGGAGGCCAGCTCGCTGCGCAGCTCCCGGCACAG
CGGCTCAGCCACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208597 representing NM_000955
Red=Cloning site Green=Tags(s)

MSPCGPLNLSLAGEATTCAAPWVPNTSAVPPSGASPALPIFSMTLGAVSNLLALALLAQAAGRLRRRRA
 ATFLLFVASLLATDLAGHVIPGALVLRLYTAGRAPAGGACHFLGGCMVFFGLCPDLLGCGMAVERCVGVT
 RPLLHAARVSVARARLALAAVAVALAVALLPLARVGRYELQYPGTWCF IGLPPEGWRQALLAGL FASL
 GLVALLAALVCNTLSGLALLRARWRRRPPASGPDSTRRWGAHGPRASASSASSIASASTFFGGSR
 SSGSARRARAHVEMVGLVIMVSCICWSPMLVVALAVGGWSTSLQRPLFLAVRLASWNQILDWPW
 YILLRQAVLRQLRLPPRAGAKGGPAGLGLTPSAWEASSLRSSRHSGLSHF

TRTRPLE - GFP Tag - V

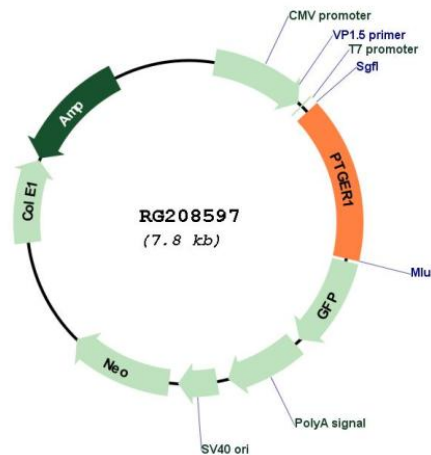
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_000955

ORF Size:	1206 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_000955.2 , NP_000946.2
RefSeq Size:	1458 bp
RefSeq ORF:	1209 bp
Locus ID:	5731
UniProt ID:	P34995
Cytogenetics:	19p13.12
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	The protein encoded by this gene is a member of the G protein-coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). Through a phosphatidylinositol-calcium second messenger system, G-Q proteins mediate this receptor's activity. Knockout studies in mice suggested a role of this receptor in mediating algesia and in regulation of blood pressure. Studies in mice also suggested that this gene may mediate adrenocorticotrophic hormone response to bacterial endotoxin. [provided by RefSeq, Jul 2008]