

Product datasheet for **RG222983**

PTGER3 (NM_198719) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PTGER3 (NM_198719) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PTGER3
Synonyms:	EP3; EP3-I; EP3-II; EP3-III; EP3-IV; EP3-VI; EP3e; Inc003875; PGE2-R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222983 representing NM_198719 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGAGACCCGGGGCTACGGAGGGGATGCCCCCTTCTGCACCCGCCTCAACCACTCCTACACAGGCA
TGTGGGCGCCGAGCGTTCCGCCGAGGCGGGGCAACCTCACGCGCCCTCCAGGGTCTGGCGAGGATTG
CGGATCGGTGTCCTGGCCTTCCCGATCACCATGCTGCTCACTGGTTTCGTGGGCAACGCACTGGCCATG
CTGCTCGTGTGCGCAGCTACCGGCGCCGGAGAGCAAGCACAAGAGTCTTCTGCTGTGCATCGGCT
GGCTGGCGCTCACCGACCTGGTCGGCAGCTTCTCACCACCCGGTCGTCATCGTCGTGTACCTGTCCAA
GCAGCGTTGGGAGCACATCGACCCGTCGGGGCGGCTCTGCACCTTTTCGGGCTGACCATGACTGTTTTC
GGGCTCTCCTCGTTGTTTCATCGCCAGCGCCATGGCCGTCGAGCGGGCGCTGGCCATCAGGGCGCCGCACT
GGTATGCGAGCCACATGAAGACGCGTGCCACCCGCGCTGTGCTGCTCGGCGTGTGGCTGGCCGTCGTCG
CTTCGCCCTGCTGCCGCTGCTGGGCGTGGGCCAGTACACCGTCCAGTGGCCCGGGACGTGGTGTTCATC
AGCACCGGGCGAGGGGCAACGGGACTAGCTCTTCGCATAACTGGGGCAACCTTTTCTTCGCTCTGCT
TTGCCCTCCTGGGGCTCTGGCGCTGACAGTCACTTTTCTGCAACCTGGCCACCATTAAGGCCCTGGT
GTCCCGCTGCCGGGCAAGGCCACGGCATCTCAGTCCAGTGGCCAGTGGGCGCCATCACGACCGAGACG
GCCATTACGCTTATGGGATCATGTGCTGCTGTCGGTCTGCTGGTCTCCGCTCCTGATAATGATGTTGA
AAATGATCTTCAATCAGACATCAGTTGAGCACTGCAAGACACACGGAAGCAGAAAGAATGCAACTT
CTTCTTAATAGCTGTTCCGCTGGCTTCACTGAACCAGATCTGGATCCTTGGGTTTACCTGCTGTTAAGA
AAGATCTTCTCGAAAGTTTGGCCAGATCAGGTACCACAAAACAATATGCATCCAGCTCCACCTCCT
TACCCTGCCAGTGTCTCAACCTTGATGTGGAGCGACCATTTGGAAAGA

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222983 representing NM_198719
 Red=Cloning site Green=Tags(s)

MKETRGYGGDAPFCTRLNHSYTMWAPERSAEARGNLTRPPGSGEDCGSVSVAFPIITMLLTGFVGNALAM
 LLVRSRYRRRESKRKKSFLLCIGWLAL TDLVGQLL TTPVVIVVYL SKQRWEHIDPSGRLCTFFGLTMTVF
 GLSSLF IASAMAVERALAIRAPHWYASHMKTRATRAVL LGVWLAVLAFALLPVLGVGQYTVQWPWTWCFI
 STGRGGNGTSSSHNWGNLFFASAF AFLG LLLALTVTFSCNLATIKALVSRCAKATASQSSAQWGRIT TET
 AIQLMGIMCVLSVCWSP LLIMMLKMI FNQTSVEHCKTHTTEKQKECNFFLI AVRLASLNQILD PWVYLLLR
 KILLRKFCQIRYHTN NYASSSTSLPCQCSSTLMWSDHLER

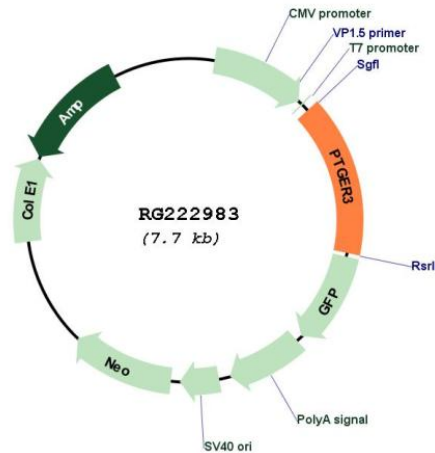
SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_198719

ORF Size:	1170 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_198719.2
RefSeq Size:	2353 bp
RefSeq ORF:	1173 bp
Locus ID:	5733
UniProt ID:	P43115
Cytogenetics:	1p31.1
Protein Families:	Druggable Genome, GPCR, Transcription Factors, 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). This receptor may have many biological functions, which involve digestion, nervous system, kidney reabsorption, and uterine contraction activities. Studies of the mouse counterpart suggest that this receptor may also mediate adrenocorticotrophic hormone response as well as fever generation in response to exogenous and endogenous stimuli. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]