

## Product datasheet for **RG232020**

### PTGES2 (NM\_001256335) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PTGES2 (NM\_001256335) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PTGES2  
**Synonyms:** C9orf15; GBF-1; GBF1; mPGES-2; PGES2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG232020 representing NM\_001256335  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGGCTGTGAACGAGCAGGGCAAGGAGGTGACCGAGTTCGGCAATAAGTACTGGCTCATGCTCAACG  
AGAAGGAGGCCAGCAAGTGTATGGTGGGAAGGAGGCCAGGACGGAGGAGATGAAGTGGCGGCAGTGGGC  
GGACGACTGGCTGGTGCACCTGATCTCCCCAATGTGTACCGCACGCCACCGAGGCTCTGGCGTCCTTT  
GACTACATTGTCGCGAGGGCAAGTTCGGAGCCGTGGAGGGTGGCGTGGCCAAGTACATGGGTGCAGCGG  
CCATGTACCTCATCAGCAAGCGACTCAAGAGCAGGCACCGCTCCAGGACAACGTGCGCGAGGACCTCTA  
TGAGGCTGCTGACAAGTGGGTGGCTGCTGTGGCAAGGACCGGCCCTTCATGGGGGGCCAGAAGCCGAAT  
CTCGCTGATTTGGCGGTGTATGGCGTGCTGCTGTGATGGAGGGGCTGGATGCGTTTCGATGACCTGATGC  
AGCACACGCACATCCAGCCCTGGTACTGCGGGTGGAGAGGGCCATCACCAGGCCTCCCGACGCGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG232020 representing NM\_001256335  
Red=Cloning site Green=Tags(s)

MKAVNEQGKEVTEFGNKYWLMLNEKEAQVYGGKEARTEEMKWRQWADDWLVHLISPNVYRTPTEALASF  
DYIVREGKFGAVEGAVAKYMGAAMYLI SKRLKSRHRLQDNVREDLYEAADKWVAAVGKDRPFMGGQKPN  
LADLAVYGVLRVMEGLDAFDDLMQHITHIQPWYLRVERAITEASPAH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

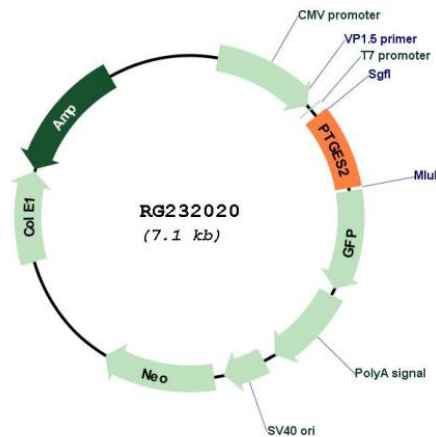


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001256335

ORF Size: 558 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001256335.1, NP_001243264.1</u>
<b>RefSeq Size:</b>	1369 bp
<b>RefSeq ORF:</b>	561 bp
<b>Locus ID:</b>	80142
<b>UniProt ID:</b>	<u>Q9H7Z7</u>
<b>Cytogenetics:</b>	9q34.11
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Metabolic pathways
<b>Gene Summary:</b>	The protein encoded by this gene is a membrane-associated prostaglandin E synthase, which catalyzes the conversion of prostaglandin H2 to prostaglandin E2. This protein also has been shown to activate the transcription regulated by a gamma-interferon-activated transcription element (GATE). Multiple transcript variants have been found for this gene. [provided by RefSeq, Jun 2009]