

Product datasheet for **RC232020**

PTGES2 (NM_001256335) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PTGES2 (NM_001256335) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PTGES2
Synonyms: C9orf15; GBF-1; GBF1; mPGES-2; PGES2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC232020 representing NM_001256335
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCTGTGAACGAGCAGGGCAAGGAGGTGACCGAGTTCGGCAATAAGTACTGGCTCATGCTCAACG
AGAAGGAGGCCAGCAAGTGTATGGTGGGAAGGAGGCCAGGACGGAGGAGATGAAGTGGCGCAGTGGC
GGACGACTGGCTGGTGCACCTGATCTCCCCAATGTGTACCGCACGCCACCGAGGCTCTGGCGTCTTT
GACTACATTGTCCGCGAGGGCAAGTTCGGAGCCGTGGAGGGTGGCGTGGCCAAGTACATGGGTGCAGCGG
CCATGTACCTCATCAGCAAGCGACTCAAGAGCAGGCACCGCCTCCAGGACAACGTGCGCGAGGACCTCTA
TGAGGCTGCTGACAAGTGGTGGCTGCTGTGGCAAGGACCGGCCCTTCATGGGGGGCCAGAAGCCGAAT
CTCGCTGATTTGGCGGTGTATGGCGTGTGCGTGTGATGGAGGGGCTGGATGCGTTTCGATGACCTGATGC
AGCACACGCACATCCAGCCCTGGTACCTGCGGGTGGAGAGGGCCATCACCGAGGCTCCCCAGCGCAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC232020 representing NM_001256335
Red=Cloning site Green=Tags(s)

MKAVNEQGKEVTEFGNKYWLMLNEKEAQQVYGGKEARTEEMKWRQWADDWL VHL I SPNVYRTPTEALASF
DYIVREGKFGAVEGAVAKYMGAAMYLI SKRLKSRHRLQDNVREDLYEAADKWVAAVGKDRPFMGGQKPN
LADLAVYGVLRVMEGLDAFDDLQHTHIQPWYLRVERAITEASPAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

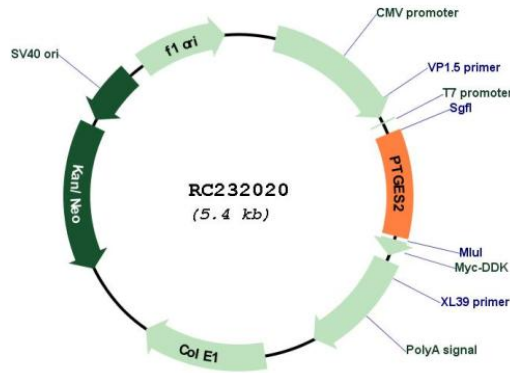
Restriction Sites: SgfI-MluI



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.

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:	<u>NM_001256335.1</u> , <u>NP_001243264.1</u>
RefSeq Size:	1369 bp
RefSeq ORF:	561 bp
Locus ID:	80142
UniProt ID:	<u>Q9H7Z7</u>
Cytogenetics:	9q34.11
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways
MW:	21.8 kDa
Gene Summary:	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]