

Product datasheet for **RG236196**

p23 (PTGES3) (NM_001282604) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p23 (PTGES3) (NM_001282604) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PTGES3
Synonyms: cPGES; P23; TEBP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236196 representing NM_001282604.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTTTGGAAAAGCAGCCTGCTTCTGCAAAGTGGTACGATCGAAGGGACTATGTCTTCATTGAATTT
TGTGTTGAAGACAGTAAGGATGTTAATGTAATTTTAAAAATCCAAACTTACATTCAGTTGTCTCGGA
GGAAGTGATAATTTAAGCATTTAAATGAAATTGATCTTTTTCACTGTATTGATCCAAATGATTCCAAG
CATAAAAGAACGGACAGATCAATTTTATGTTGTTACGAAAAGGAGAATCTGGCCAGTCATGGCCAAGG
TTAACAAAAGAAAGGGCAAAGCTTAATTGGCTTAGTGTGACTTCAATAATTGAAAAGACTGGGAAGAT
GATTCAGATGAAGACATGTCTAATTTTGATCGTTTCTCTGAGATGATGAACAACATGGGTGGTGATGAG
GATGTAGATTTACCAGAAGTAGATGGAGCAGATGATGATTCACAAGACAGTGATGATGAAAAAATGCCA
GATCTGGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236196
Blue=ORF Red=Cloning site Green=Tag(s)

```
MSLEKQPASAKWYDRRDYVFIIEFCVEDSKDVNVNFEKSKLTFSCLLGGSDNFKHLNEIDL FHCIDPNDSK
HKRTDRSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNWKDWEDDSDEMSNFDRLFSEMMNMGGDE
DVDLPEVDGADDDSQDSDDEKMPDLE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

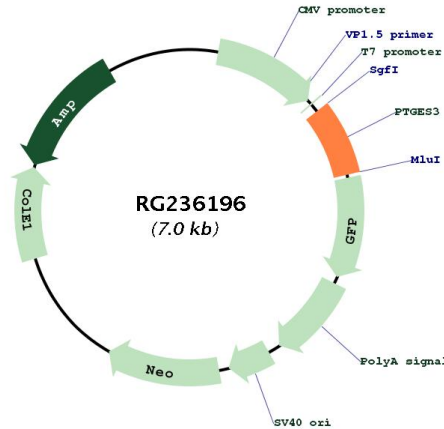
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_001282604

ORF Size: 492 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).
RefSeq:	NM_001282604.1 , NP_001269533.1
RefSeq Size:	2094 bp
RefSeq ORF:	495 bp
Locus ID:	10728
UniProt ID:	Q15185
Cytogenetics:	12
Protein Families:	Druggable Genome, Nuclear Hormone Receptor
MW:	19.6 kDa
Gene Summary:	This gene encodes an enzyme that converts prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2). This protein functions as a co-chaperone with heat shock protein 90 (HSP90), localizing to response elements in DNA and disrupting transcriptional activation complexes. Alternative splicing results in multiple transcript variants. There are multiple pseudogenes of this gene on several different chromosomes. [provided by RefSeq, Feb 2016]