

Product datasheet for **RG235970**

p23 (PTGES3) (NM_001282601) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p23 (PTGES3) (NM_001282601) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: p23
Synonyms: cPGES; P23; TEBP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235970 representing NM_001282601.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCAGCCTGCTTCTGCAAAGTGGTACGATCGAAGGGACTATGTCTTCATTGAATTTTGTGTTGAAGAC
AGTAAGGATGTTAATGTAATTTTGAAAAATCCAACTTACATTCAGTTGTCTCGGAGGAAGTGATAAT
TTTAAGCATTTAAATGAAATTGATCTTTTTCACTGTATTGATCCAATGATTCCAAGCATAAAAGAAGC
GACAGATCAATTTTATGTTGTTTACGAAAAGGAGAATCTGGCCAGTCATGGCCAAGGTTAACAAAAGAA
AGGGCAAAGCTTAATTGGCTTAGTGTGACTTCAATAATTGAAAAGACTGGGAAGATGATTCAGATGAA
GACATGTCTAATTTTATCGTTTCTCTGAGGATCACAAGACAGTGATGATGAAAAAATGCCAGATCTG
GAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

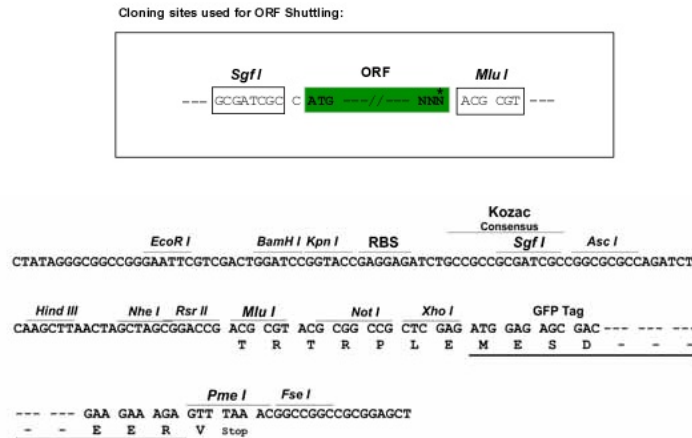
Protein Sequence: >Peptide sequence encoded by RG235970
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MQPASAKWYDRRDYVFI EFCVEDSKDVNVNFEKSKLTF SCLGGSDNFKHLNEIDL FHCIDPNSDKHKRT
DRSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDSDSDMSNDRFSEDSQSDDEKMPDL
E
TRTRPLEME SDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



Cloning Scheme:



ACCN: NM_001282601

ORF Size: 417 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_001282601.2](#)

RefSeq Size: 1982 bp

RefSeq ORF: 420 bp

Locus ID: 10728

UniProt ID: [Q15185](#)

Cytogenetics: 12

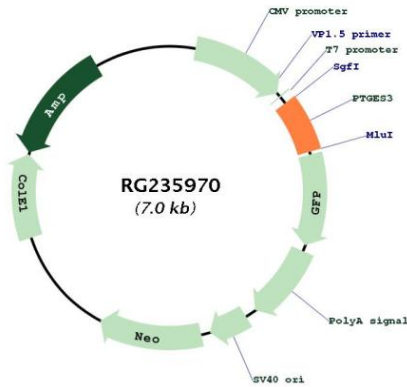
Protein Families: Druggable Genome, Nuclear Hormone Receptor

MW: 16.9 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]

Product images:



Circular map for RG235970