

Product datasheet for **RG235676**

p23 (PTGES3) (NM_001282605) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p23 (PTGES3) (NM_001282605) 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: >RG235676 representing NM_001282605.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGCCTGCTTCTGCAAAGTGGTACGATCGAAGGGACTATGTCTTCATTGAATTTGTGTTGAAGAC
AGTAAGGATGTTAATGTAAATTTGAAAAATCCAACTTACATTCAGTTGTCTCGGAGGAAGTGATAAT
TTTAAGCATTTAAATGAAATTGATCTTTTTCACTGTATTGATCCAATGATTCCAAGCATAAAAAGAACG
GACAGATCAATTTATGTTGTTTACGAAAAGGAGAATCTGGCCAGTCATGGCCAAGGTTAACAAAAGAA
AGGGCAAAGGATTCACAAGACAGTGATGATGAAAAAATGCCAGATCTGGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235676
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MQPASAKWYDRRDYVFI EFCVEDSKDVNVNFEKSKLTF SCLGGSDNFKHLNEIDL FHCIDPNSDKHKRT
DRSILCCLRKGESGQSWPRLTKERAKDSQDSDDEKMPDLE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI



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Cloning Scheme:



ACCN: NM_001282605

ORF Size: 327 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_001282605.2](#)

RefSeq Size: 1892 bp

RefSeq ORF: 330 bp

Locus ID: 10728

UniProt ID: [Q15185](#)

Cytogenetics: 12

Protein Families: Druggable Genome, Nuclear Hormone Receptor

MW: 13.2 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 RG235676