

## Product datasheet for **RC235970**

### **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:                      | Myc-DDK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Symbol:                   | p23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Synonyms:                 | cPGES; P23; TEBP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mammalian Cell Selection: | Neomycin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Vector:                   | pCMV6-Entry (PS100001)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ORF Nucleotide Sequence:  | <p>&gt;RC235970 representing NM_001282601</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC<b>CGATCGCC</b></p> <p>ATGCAGCCTGCTTCTGCAAAGTGGTACGATCGAAGGGACTATGTCTTCATTGAATTTGTGTTGAAGACA<br/>         GTAAGGATGTTAATGTAAATTTTGAAAAATCCAACTTACATTCAGTTGTCTCGGAGGAAGTGATAATTT<br/>         TAAGCATTTAAATGAAATTGATCTTTTCACTGTATTGATCCAAATGATTCCAAGCATAAAAGAACGGAC<br/>         AGATCAATTTTATGTTGTTTACGAAAAGGAGAATCTGGCCAGTCATGGCCAAGGTTAACAAAAGAAAGGG<br/>         CAAAGCTTAATTGGCTTAGTGTGCACTTCAATAATTGGAAAGACTGGGAAGATGATTGAGATGAAGACAT<br/>         GTCTAATTTTGATCGTTTCTCTGAGGATTCACAAGACAGTGATGATGAAAAAATGCCAGATCTGGAG</p> <p><b>ACGCGT</b>ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT<br/>         ACAAGGATGACGACGATAAGGTTTAA</p> |
| Protein Sequence:         | <p>&gt;RC235970 representing NM_001282601</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MQPASAKWYDRRDYVFI EFCVEDSKDVNVNFEKSKLTF SCLGGSDNFKHLNEIDL FHCIDPNDSKHKRTD<br/>         RSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDDSDEMSNFD RFSQDSQDSDEKMPDLE</p> <p><b>TR</b>TRPLEQKLISEEDLAANDILDYKDDDDKV</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Restriction Sites:        | SgfI-MluI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |


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## 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).

Reconstitution Method:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_001282601.2](#)

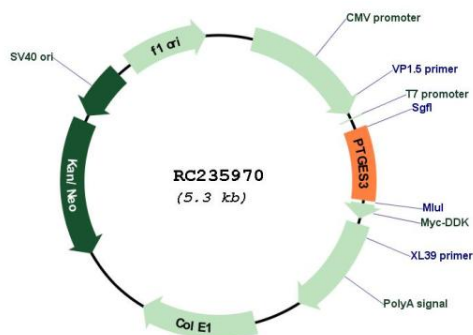
RefSeq Size: 1982 bp

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 RC235970