

Product datasheet for **RC203059**

PAGE4 (NM_007003) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PAGE4 (NM_007003) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PAGE4
Synonyms: CT16.7; GAGE-9; GAGEC1; JM-27; JM27; PAGE-1; PAGE-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203059 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCACGAGTGAGATCAAGATCCAGAGGAAGAGGAGATGGTCAGGAGGCTCCCGATGTGGTTGCAT
TCGTGGCTCCCGGTGAATCTCAGCAAGAGGAACCACTGACAATCAGGATATTGAACCTGGACAAGA
GAGAGAAGGAACACCTCCGATCGAAGAACGTAAGTAGAAGGTGATTGCCAGGAAATGGATCTGGAAAAG
ACTCGGAGTGAGCGTGGAGATGGCTCTGATGTAAAAGAGAAGACTCCACCTAATCCTAAGCATGCTAAGA
CTAAAGAAGCAGGAGATGGGCAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203059 protein sequence
Red=Cloning site Green=Tags(s)
MSARVRSRGRGDGQEAPDVVAFVAPGESQEEPPPTDNQDIEPGQEREGTPPIEERKVEGDCQEMDLEK
TRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6212_c01.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_007003

ORF Size: 306 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.

RefSeq: [NM_007003.4](#)

RefSeq Size: 563 bp

RefSeq ORF: 309 bp

Locus ID: 9506

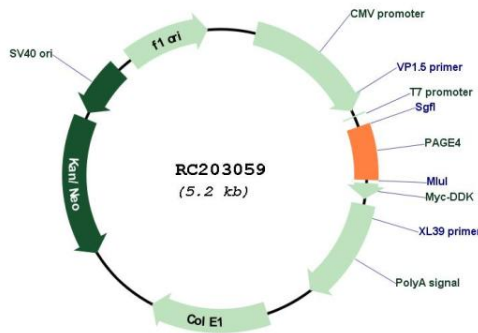
UniProt ID: [O60829](#)

Cytogenetics: Xp11.23

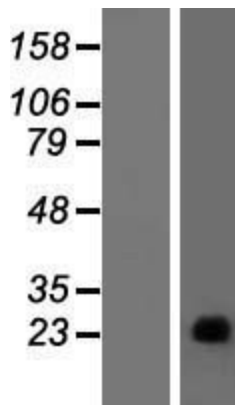
MW: 11.2 kDa

Gene Summary: This gene is a member of the GAGE family. The GAGE genes are expressed in a variety of tumors and in some fetal and reproductive tissues. This gene is strongly expressed in prostate and prostate cancer. It is also expressed in other male and female reproductive tissues including testis, fallopian tube, uterus, and placenta, as well as in testicular cancer and uterine cancer. The protein encoded by this gene shares sequence similarity with other GAGE/PAGE proteins, and also belongs to a family of CT (cancer-testis) antigens. The protein may play a role in benign and malignant prostate diseases. A related pseudogene is located on chromosome 7. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC203059



Western blot validation of overexpression lysate (Cat# [LY416260]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203059 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).