

Product datasheet for **RC202689**

PREI3 (MOB4) (NM_199482) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PREI3 (MOB4) (NM_199482) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PREI3
Synonyms: 2C4D; CGI-95; MOB1; MOB3; MOBKL3; PHOCN; PREI3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202689 representing NM_199482
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCATGGCGGAGGGGACGGCAGTGCTGAGGCGGAACAGGCCGGGCACCAAGGCGCAGGATTTCTATA
ATTGGCCTGATGAATCCTTTGATGAAATGGACAGTACACTAGCTGTTCAACAGTATATTTCAACAGAACAT
AAGAGCAGATTGCTCCAATATTGACAAAATTTCTGAACCACTGAAGCCAAGATGAAGGTGTGTGAAG
TATGAACATTTAAGGCAGTTCTGCCTTGAGCTAAATGGACTTGCTGTCAAATTCAGAGTGAATGCCATC
CAGATACTTGCACTCAAATGACAGCAACTGAACAATGGATTTTTCTTTGTGCAGCTCATAAACTCCAAA
AGAGTGTCTGCTATAGACTATACTAGACACACTTGATGGTGTGTCATGCTTCTGAATAGCAATAAA
TATTTTCCAGCAGGGTTAGCATAAAGGAATCATCTGTAGCGAACTAGGATCAGTATGCCGTAGGATTT
ACAGAATATTTTACATGCTTATTTTCATCATCGGCAGATATTTGATGAATATGAAAATGAAACATTTT
GTGTCATCGGTTTACTAAGTTTGTGATGAAATACAATTTGATGTCCAAGGATAACCTGATTGTACCAATT
TTAGAAGAGGAAGTACAGAATTCAGTTTCTGGGAAAGTGAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202689 representing NM_199482
Red=Cloning site Green=Tags(s)

MVMAEGTAVLRRNRPGTKAQDFYNWPDESFDMDSTLAVQQYIQQNIRADCSNIDKILEPPEGQDEGVWK
 YEHLRQFCLELNGLAVKLQSECHPDTCTQMTATEQWIFLCAAHKTPKECPAIDYRHTLDGAACLLNSNK
 YFPSRVSIKESVAKLGSVCRRIYRIFSHAYFHHRQIFDEYENETFLCHRFTKFVMKYNLMSKDNLIVPI
 LEEEVQNSVSGESEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1436_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199482

ORF Size: 675 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 Size: 2698 bp

RefSeq ORF: 582 bp

Locus ID: 25843

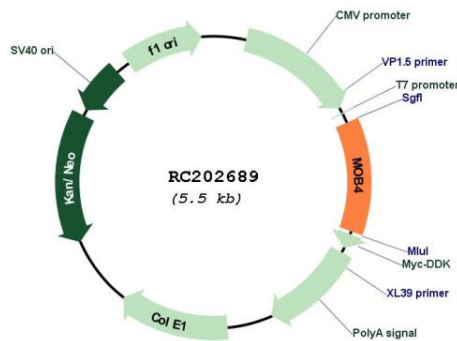
UniProt ID: [Q9Y3A3](#)

Cytogenetics: 2q33.1

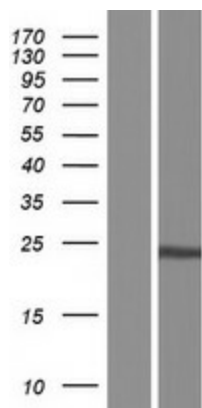
MW: 22.1 kDa

Gene Summary: This gene was identified based on its similarity with the mouse counterpart. Studies of the mouse counterpart suggest that the expression of this gene may be regulated during oocyte maturation and preimplantation following zygotic gene activation. Alternatively spliced transcript variants encoding distinct isoforms have been observed. Naturally occurring read-through transcription occurs between this locus and the neighboring locus HSPE1.[provided by RefSeq, Feb 2011]

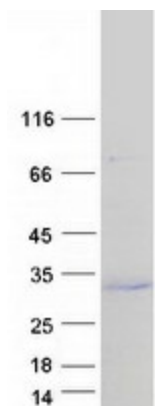
Product images:



Circular map for RC202689



Western blot validation of overexpression lysate (Cat# [LY404580]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202689 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MOB4 protein (Cat# [TP302689]). The protein was produced from HEK293T cells transfected with MOB4 cDNA clone (Cat# RC202689) using MegaTran 2.0 (Cat# [TT210002]).