

Product datasheet for **RC235981**

Protamine 2 (PRM2) (NM_001286356) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Protamine 2 (PRM2) (NM_001286356) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Protamine 2
Synonyms: CT94.2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC235981 representing NM_001286356
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTCCGATACCGCTGAGGAGCCTGAGCGAACGCTCGCACGAGGTGTACAGGCAGCAGTTGCATGGGC
 AAGAGCAAGGACACCACGGCCAAGAGGAGCAAGGGCTGAGCCGGAGCACGTCGAGGTCTACGAGAGGAC
 CCATGGCCAGTCTCACTATAGGCGCAGACACTGCTCTCGAAGGAGGCTGCACCGGATCCACAGGCGGCAG
 CATCGCTCCTGCAGAAGGCGAAAAGACGCTCCTGCAGGCACCGAGGAGGCATCGCAGAGAGTCCCTAG
 GTGACCCCTCAACCAGAACTTTCTTTCCAAAAGGCTGCAGAACAGGAAGAGAACATGCAGAAGGCAC
 TAAGTTCTCGGGCCCTCACCCACAGCTGGAATTAAGAAAAAGTCGCCGAAACCAAGTGAGGCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235981 representing NM_001286356
 Red=Cloning site Green=Tags(s)

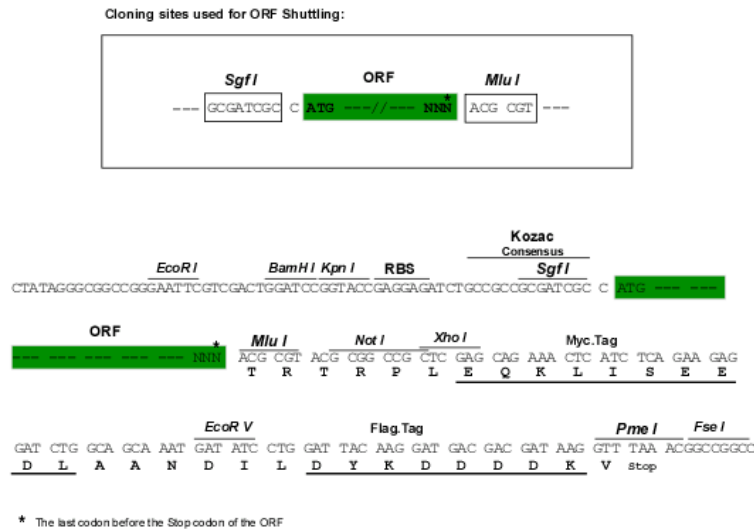
MVRVYRVSLSERSHEVYRQQLHGQEQGHGQEEQGLSPEHVEVYERTHGQSHYRRRHCSRRLHRIHRRQ
 HRSCRRLRRSCRHRRRHRESLGDPLNQNFLSQKAAEPGREHAEGTKLPGPLTPSWKLKSRPKHQVRP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_001286356

ORF Size: 420 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.

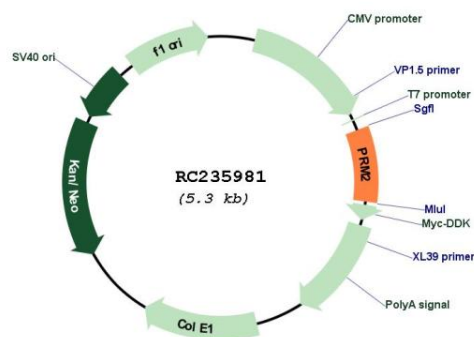
RefSeq: [NM_001286356.2](#)

RefSeq Size: 727 bp

RefSeq ORF: 423 bp
 Locus ID: 5620
 UniProt ID: [P04554](#)
 Cytogenetics: 16p13.13
 MW: 17.6 kDa

Gene Summary: Protamines substitute for histones in the chromatin of sperm during the haploid phase of spermatogenesis, and are the major DNA-binding proteins in the nucleus of sperm in many vertebrates. They package the sperm DNA into a highly condensed complex in a volume less than 5% of a somatic cell nucleus. Many mammalian species have only one protamine (protamine 1); however, a few species, including human and mouse, have two. This gene encodes protamine 2, which is cleaved to give rise to a family of protamine 2 peptides. Alternatively spliced transcript variants have also been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RC235981