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Product datasheet for SC125724

Protamine 2 (PRM2) (NM_002762) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protamine 2 (PRM2) (NM_002762) Human Untagged Clone
Tag:	Tag Free
Symbol:	Protamine 2
Synonyms:	CT94.2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002762 edited AGACCAGACCAACAGTAACACCAAGGGCAGGTGGGCAGGCCTCCGCCCTCCTCCCCTACT CCAGGGCCCACTGCAGCCTCAGCCCAGGAGCCACCAGATCTCCCAACACCATGGTCCGAT ACCGCGTGAGGAGCCTGAGCGAACGCTCGCACGAGGTGTACAGGCAGCAGTTGCATGGGC AAGAGCAAGGACACCACGGCCAAGAGGAGCAAGGGCTGAGCCCGGAGCACGTCGAGGTCT ACGAGAGGACCCATGGCCAGTCTCACTATAGGCGCAGACACTGCTCTCGAAGGAGGCTGC ACCGGATCCACAGGCGGCAGCATCGCTCCTGCAGAAGGCGCAAAAGACGCTCCTGCAGGC ACCGGAGGAGGCATCGCAGAGGCTGCAGAACCAGGAAGAGAACATGCAGAAGGCACTAAG CTTCCTGGGCCCCTCACCCCCAGCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002762 unedited
GTTCGGATTTGTAAACCATCACTATAGGCGGCGCGCGAATTCGCCATTACGGCCGGGGAG
ACCAGACCAACAGTAACACCGAGGGCAGGTGGGCAGGCCTCCGCCCTCCTCCCCTACTCC
AGGGCCCACTGCAGCCTCAGCCCAGGAGCCACCAGATCTCCCAACACCATGGTCCGATAC
CGCGTGAGGAGCCTGAGCGAACGCTCGCACGAGGTGTACAGGCAGCAGTTGCATGGGCAA
GAGCAAGGACACCACGGCCAAGAGGAGCAAGGGCTGAGCCCGGAGCACGTCGAGGTCTAC
GAGAGGACCCATGGCCAGTCTCACTATAGGCGCAGACACTGCTCTCGAAGGAGGCTGCAC
CGGATCCACAGGCGGCAGCATCGCTCCTGCAGAAGGCGCAAAAGACGCTCCTGCAGGCAC
CGGAGGAGGCATCGCAGAGGCTGCAGAACCAGGAAGAGAACATGCAGAAGGCACTAAGCT
TCCTGGGCCCCTCACCCCCAGCTGGAAAANAAANNNNNNAANNNNNANNAANAAACATGT
CGGCCGCCTCGGCCCTCGACTCTAGATTGCGGCCGCGGGCATAGCTGTTTCCTGAACAGA
TCCGGGGTGGGCATCCTGTGACCCCNTCCCAGTGGCTCTCCTGGCCCTGNGAAGTTGCCA
CTCCAGTGCCCACCAGCCCTGGTCCTAATAAAAATAAGGTTGCATCATTTTTGGCTGACT
AGGGGGTCCTCCTATAATATTATGGGGGTGGAGGGGGGGTGGTATTGGAACCAAGGGGGC
AAATTNNNGAAAAAACAACCTTGAAGGGGCCTGGGGGGTCTATTGGGGGACCCAGGCTGG
AGGGCAGTGGGCACAATCTGGGGGTACTGGGAATCTCCGCCTCCTGGGGGTAAAGGAATT
TTCCCTGCGCTCACCCCCCCCAGGGGGTGGGGGTTCCCAGGGTGTGCGTGAACCAGGTCA
ACTAATTTTTGGGTTTTT

Restriction Sites: Please inquire

ACCN: NM_002762

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_002762.2, NP_002753.2

RefSeq Size: 683 bp

RefSeq ORF: 309 bp

Locus ID: 5620

UniProt ID: P04554

Cytogenetics: 16p13.13

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]
Transcript Variant: This variant (1) represents the predominant transcript and encodes the predominant isoform (1).