

Product datasheet for **RC206345**

POU5F2 (NM_153216) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: POU5F2 (NM_153216) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: POU5F2
Synonyms: SPRM-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC206345 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGGACACAGGCCCTCAAACCACTTCTGCCCCCTTCCAGGCAGTGGTGGGGCGGCCCCAGAGGGC
CGATGCCCTGCGGGTTGACACTCTGACCTGGTTGAGCACCCAGGCGGCCCTGGCAGGGTATGGTCTG
GCCGGCAGTCAGGCCAGGGATCTGCCAGGCCCTGACGTGTGGAGGATCCCTGGTCCCTGCCACAC
GAATCCGGGGCTGGATAGCACCTGCAGGCCCGTCTTGGAGCTAGTGAGGCAGGGGACTGGTTGCGAC
GCCCTCCGAAGGCGCCCTCCCGGGCCCTACATTGCCCTGCGGAGCATTCCGAAGTTGCCGCCGAGCA
GGACATCTCGGGCATACTGAAAGAGTTGCAGCAATTGGCCAAGGAGTTGAGGCAGAAGAGTTGAGCCTA
GGTACTCGCAGGCCGATGTGGGATCGCTGTGGGAGCTCTGTTGGGAAGGTGCTTAGCCAGACGACCA
TCTGCCGTTTCGAGGCCAGCAGCTAAGCGTCGCCAACATGTGGAAGCTGCGACCACTGCTGAAAAAGTG
GCTGAAGGAAGTGAAGCAGAGAACCTTCTGGGCTTATGCAAAATGGAGATGATCCTGCAACAGTCTGGG
AAGTGGAGACGGGCAAGCAGAGAGCGACGAATCGGAAACAGCCTGGAGAAATTCTCCAGCGGTGCCCTA
AGCCACACCCAGCAAATCAGCCACATTGCTGGTGCCTCCAGCTGCAGAAGGATGTGGTTTCGAGTTTG
GTTCTATAACCGCAGCAAGATGGGCAGTCGACCAACCAATGATGCTTCCCACGGGAGATTGTGGGGACA
GCCGGCCCTCTTGCCCAGGAGCACCAGTGTGCTTTCACCTGGGACTGGGCTCCCAGTGGATATCCCC
ACTATACAGTCTCTACTCTGCAGGGGTAGCCCACTCTCTGCCCCAGCCACCACTCTGGGCTCCTCAG
ATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206345 protein sequence
Red=Cloning site Green=Tags(s)

MDGHRPSNHFCLPGSGGGGPRGPMPLRVDTL TWLSTQAAPGRVMVPAVRPGICPGPDVWRIPLGPLPH
 EFRGWIAPCRPRLGASEAGDWLRRPSEGALPGPYIALRSIPKLPPEDISGILKELQQLAKELRQKRLSL
 GYSQADVGIAVGALFGKVL SQTTCRFEAQQLSVANMWKLRPLLKKWLKEVEAENLLGLCKMEMILQQSG
 KWRRASRERRIGNSLEKFFQRCPKPTPQQISHIAGCLQLQKDVVRVWFYNRSKMGSRPTNDASPREIVGT
 AGPPCPGAPVCFHLGLGLPVDIPHYTRLYSAGVAHSSAPATTLGLLRF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6533_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153216

ORF Size: 984 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_153216.1](#), [NP_694948.1](#)

RefSeq Size: 1295 bp

RefSeq ORF: 987 bp

Locus ID: 134187

UniProt ID: [Q8N7G0](#)

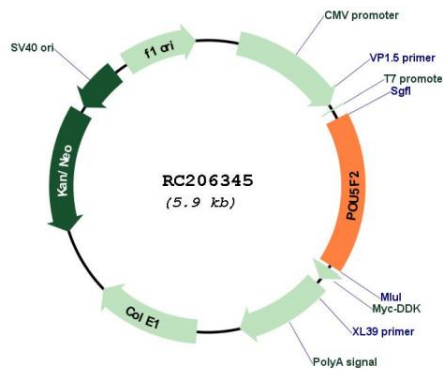
Cytogenetics: 5q15

Protein Families: Transcription Factors

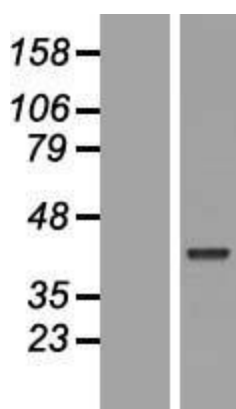
MW: 36.1 kDa

Gene Summary: Transcription factor that binds preferentially to the octamer motif (5'-ATGTTAAT-3'). May exert a regulatory function in meiotic events that are required for terminal differentiation of male germ cell (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206345



Western blot validation of overexpression lysate (Cat# [LY407145]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206345 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).