

Product datasheet for **RG206345**

POU5F2 (NM_153216) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU5F2 (NM_153216) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POU5F2
Synonyms:	SPRM-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206345 representing NM_153216 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGGACACAGGCCCTCAAACCACTTCTGCCCCCTTCCAGGCAGTGGTGGGGCGGCCCCAGAGGGC
CGATGCCCTGCGGGTTGACACTCTGACCTGGTTGAGCACCCAGGCGGCCCTGGCAGGGTATGGTCTG
GCCGGCAGTCAGGCCAGGGATCTGCCAGGCCCTGACGTGTGGAGGATCCCTGGTCCCTGCCACAC
GAATCCGGGGCTGGATAGCACCTGCAGGCCCGTCTTGGAGCTAGTGAGGCAGGGGACTGGTTGCGAC
GCCCTCCGAAGGCGCCCTCCCGGGCCCTACATTGCCCTGCGGAGCATTCCGAAGTTGCCGCCCAGAG
GGACATCTCGGGCATACTGAAAGAGTTGCAGCAATTGGCCAAGGAGTTGAGGCAGAAGAGTTGAGCCTA
GGTACTCGCAGGCCGATGTGGGATCGCTGTGGGAGCTCTGTTGGGAAGGTGCTTAGCCAGACGACCA
TCTGCCGTTTCGAGGCCAGCAGCTAAGCGTCGCCAACATGTGGAAGCTGCGACCACTGCTGAAAAAGTG
GCTGAAGGAAGTGAAGCAGAGAACCTTCTGGGCTTATGCAAAATGGAGATGATCCTGCAACAGTCTGGG
AAGTGGAGACGGGCAAGCAGAGAGCGACGAATCGGAAACAGCCTGGAGAAATTCTCCAGCGGTGCCCTA
AGCCACACCCAGCAAATCAGCCACATTGCTGGTGCCTCCAGCTGCAGAAGGATGTGGTTCGAGTTTG
GTTCTATAACCGCAGCAAGATGGGCAGTCGACCAACCAATGATGCTTCCCACGGGAGATTGTGGGGACA
GCCGGGCTCCTTGCCCAGGAGCACCAAGTGTGCTTTCACCTGGGACTGGGGCTCCCAGTGGATATCCCC
ACTATACAGTCTCTACTCTGCAGGGGTAGCCCACTCTCTGCCCCAGCCACCACTCTGGGCTCCTCAG
ATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206345 representing NM_153216
Red=Cloning site Green=Tags(s)

MDGHRPSNHFCLPGSGGGGPRGPMPLRVDTLTLWSTQAAPGRVMVWPAVRPGICPGPDVWRIPLGPLPH
 EFRGWIAPCRPRLGASEAGDWLRRPSEGALPGPYIALRSIPKLPPPEDISGILKELQQLAKELRQKRLSL
 GYSQADVGIAVGALFGKVLSTTTICRFEAQQLSVANMWKLRPLLKKWLKEVEAENLLGLCKMEMILQQSG
 KWRRASRERRIGNSLEKFFQRCPKPTPQQISHIAGCLQLQKDVVRVWFYNRSKMGSRPNTNDASPREIVGT
 AGPPCPGAPVCFHLGLPLVDIPHYTRYASAGVAHSSAPATTLGLLLRF

TRTRPLE - GFP Tag - V

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

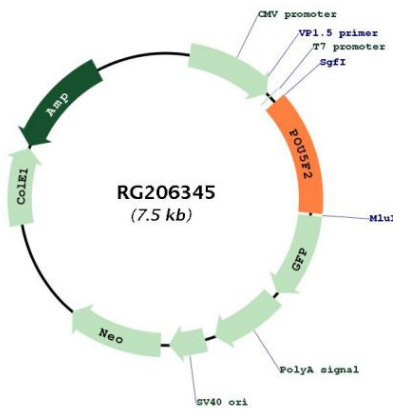
UniProt ID: [Q8N7G0](#)

Cytogenetics: 5q15

Protein Families: Transcription Factors

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 RG206345