

Product datasheet for **MR205861**

Pou5f1 (NM_013633) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou5f1 (NM_013633) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pou5f1
Synonyms:	NF-A3; Oct; Oct-; Oct-3; Oct-3/; Oct-3/4; Oct-4; Oct3; Oct3/; Oct3/4; Oct4; Otf; Otf-; Otf-3; Otf-4; Otf3; Otf3-; Otf3-rs7; Otf3g; Otf4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205861 representing NM_013633 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGACACCTGGTTCAGACTTCGCCTTCTCACCCACCAGGTGGGGTGATGGGTGAGCAGGGC
TGGAGCCGGGCTGGTGGATCCTCGAACCTGGCTAAGCTTCCAAGGGCCTCCAGGTGGGCTGGAATCGG
ACCAGGCTCAGAGGTATTGGGGATCTCCCATGTCCGCCGCATACGAGTTCTGCGGAGGGATGGCATA
TGTGGACCTCAGGTTGACTGGCCTAGTCCCCAAGTTGGCGTGGAGACTTTCAGCCTGAGGGCCAGG
CAGGAGCAGAGTGAAAGCAACTCAGAGGGAACCTCCTCTGAGCCCTGTGCCGACCGCCCAATGCCGT
GAAGTTGGAGAAGGTGGAACCAACTCCCGAGGAGTCCCAGGACATGAAAGCCCTGCAGAAGGAGCTAGAA
CAGTTTCCAAGCTGCTGAAGCAGAAGAGGATCACCTTGGGTACACCCAGGCCGACGTGGGGCTCACCC
TGGGCGTTCTCTTTGAAAGGTGTTAGCCAGACCACCATCTGTGCTTTCGAGGCCCTGCAGCTCAGCCT
TAAGAACATGTGTAAAGCTGCGGCCCTGCTGGAGAAGTGGGTGGAGGAAGCCGACAAATGAGAACCTT
CAGGAGATATGCAATCGGAGACCCTGGTGCAGGCCCGGAAGAGAAAGCGAACTAGCATTGAGAACCCTG
TGAGGTGGAGTCTGGAGACCATGTTTCTGAAGTGCCTGAGCCCTCCCTACAGCAGATCACTCACATCGC
CAATCAGCTTGGGCTAGAGAAGGATGTGGTTCGAGTATGGTCTGTAACCGGCCCGAGAAGGGCAAAGA
TCAAGTATTGAGTATCCCAACGAGAAGAGTATGAGGCTACAGGGACACCTTTCCAGGGGGGGCTGTAT
CCTTCTCTGCCCCAGTCCCACCTTGGCACCCAGGCTATGGAAGCCCCACTTACCACACTCTA
CTCAGTCCCTTTCTGAGGGCGAGGCCCTTCCCTCTGTTCCCGTCACTGCTCTGGGCTCCCCATGCAT
TCAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205861 representing NM_013633
 Red=Cloning site Green=Tags(s)

MAGHLASDFAFSPPPGGGDSAGLEPGWVDPRTWLSFQGGPPGGPGIGPGSEVLGISPCPPAYEFCGGMAY
 CGPQVGLGLVPQVGVETLQPEGQAGARVESNSEGTSSEPCADRPNAVKLEKVEPTPEESQDMKALQKELE
 QFAKLLKQKRITLGYTQADVGLTLGVLFGKVFSTTTICRFEALQLSLKNMCKLRPLLEKWWVEEADNNENL
 QEICKSETLVQARKRRTSIENRVRWSLETMFLKCPKPSLQQITHIANQLGLEKDVVRVWFVFNRRQKGR
 SSIEYSQREEYEATGTPFPGGAVSFPLPPGPHFGTPGYGSPHFTTLYSVFPPEGEAFPSVPVTALGSPMH
 SN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013633

ORF Size: 1056 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_013633.3](#), [NP_038661.2](#)

RefSeq Size: 1346 bp

RefSeq ORF: 1059 bp

Locus ID: 18999

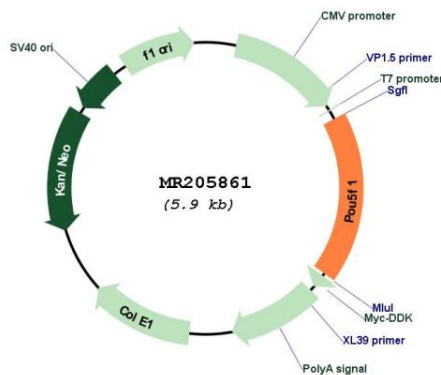
UniProt ID: [P20263](#)

Cytogenetics: 17 18.69 cM

MW: 38.7 kDa

Gene Summary: The protein encoded by this gene belongs to the POU domain family of transcription factors. POU domain transcription factors bind to a specific octamer DNA motif and regulate cell type-specific differentiation pathways. The encoded protein plays a key role in embryonic development and stem cell pluripotency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR205861