

Product datasheet for **MG205861**

Pou5f1 (NM_013633) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou5f1 (NM_013633) Mouse Tagged ORF Clone
Tag:	TurboGFP
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-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205861 representing NM_013633 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGACACCTGGCTTCAGACTTCGCCTTCTCACCCACCAGGTGGGGGTGATGGGTGAGCAGGGC
TGGAGCCGGGCTGGGTGGATCCTCGAACCTGGCTAAGCTTCCAAGGGCTCCAGGTGGGCTGGAATCGG
ACCAGGCTCAGAGGTATTGGGGATCTCCCATGTCCGCCGCATACGAGTTCTGCGGAGGGATGGCATA
TGTGGACCTCAGGTTGACTGGGCTAGTCCCCAAGTTGGCGTGGAGACTTTCAGCCTGAGGGCCAGG
CAGGAGCAGAGTGAAAGCAACTCAGAGGGAACCTCCTCTGAGCCCTGTGCCGACCGCCCAATGCCGT
GAAGTTGGAGAAGGTGGAACCAACTCCCGAGGAGTCCCAGGACATGAAAGCCCTGCAGAAGGAGCTAGAA
CAGTTTCCAAGCTGCTGAAGCAGAAGAGGATCACCTTGGGTACACCCAGGCCGACGTGGGGCTCACCC
TGGGCTTCTCTTTGAAAGGTGTTAGCCAGACCACCATCTGTGCTTCGAGGCCCTTGAGCTCAGCCT
TAAGAACATGTGTAAAGCTGCGGCCCTGCTGGAGAAGTGGGTGGAGGAAGCCGACAAATGAGAACCTT
CAGGAGATATGCAATCGGAGACCCTGGTGCAGGCCCGGAAGAGAAAGCGAACTAGCATTGAGAACCCTG
TGAGGTGGAGTCTGGAGACCATGTTTCTGAAGTGCAGGCCGAGCCCTCCCTACAGCAGATCACTCACATCGC
CAATCAGCTTGGGCTAGAGAAGGATGTGGTTCGAGTATGGTTCTGTAACCGGCCGAGAGGGCAAAAGA
TCAAGTATTGAGTATCCCAACGAGAAGAGTATGAGGCTACAGGGACACCTTTCCAGGGGGGGCTGTAT
CCTTCTCTGCCCCAGTCCCCTTTGGCACCCAGGCTATGGAAGCCCCACTTACCACACTCTA
CTCAGTCCCTTTCTGAGGGCGAGGCTTTCCCTCTGTTCCCGTCACTGCTCTGGGCTCTCCATGCAT
TCAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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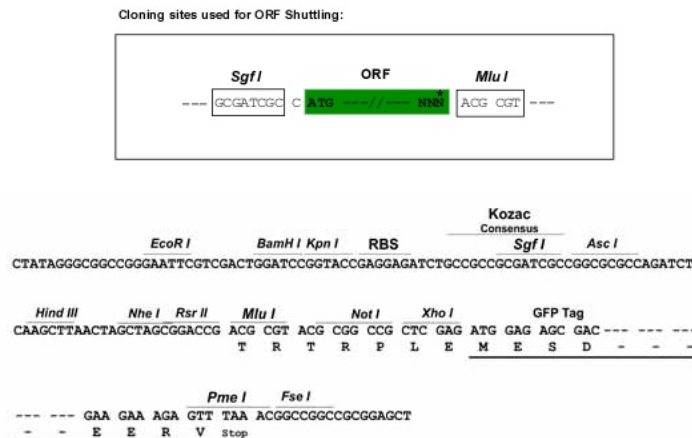
Protein Sequence: >MG205861 representing NM_013633
 Red=Cloning site Green=Tags(s)

MAGHLASDFAFSPPPGGGDSAGLEPGWVDPRTWLSFQGGPPGGPGIGPGSEVLGISPCPPAYEFCGGMAY
 CGPQVGLGLVPQVGVETLQPEGQAGARVESNSEGTSSEPCADRPNAVKLEKVEPTPEESQDMKALQKELE
 QFAKLLKQKRITLGYTQADVGLTLGVLFGKVFSTTTICRFEALQLSLKNMCKLRPLLEKWWEEADNNENL
 QEICKSETLVQARKRKRTSIENRVRWSLETMFLKCPKPSLQQITHIANQLGLEKDVVRVWFENRRQKGR
 SSIEYSQREEYEATGTPFPGGAVSFPLPPGPHFGTPGYGSPHFTTLYSVPFPEGEAFPSVPVTALGSPMH
 SN

TRTRPLE - GFP Tag - V

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

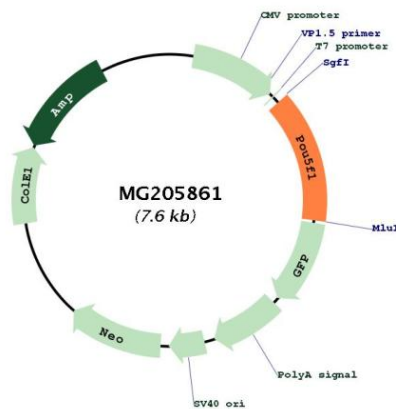
Locus ID: 18999

UniProt ID: [P20263](#)

Cytogenetics: 17 18.69 cM

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 MG205861