

## Product datasheet for **MC226375**

### **Pou5f1 (NM\_001252452) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pou5f1 (NM_001252452) Mouse Untagged Clone
Tag:	Tag Free
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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC226375 representing NM_001252452 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGCCCTGCAGAAGGAGCTAGAACAGTTTGCCAAGCTGCTGAAGCAGAAGAGGATCACCTTGGGGT  
ACACCCAGGCCGACGTGGGGCTCACCTGGGCGTTCTCTTTGGAAAGGTGTTAGCCAGACCACCATCTG  
TCGCTTCGAGGCCTTGACGCTCAGCCTTAAGAATGTGTAAGCTGCGGCCCTGCTGGAGAAGTGGGTG  
GAGGAAGCCGACAACAATGAGAACCCTTCAGGAGATATGCAAATCGGAGACCCTGGTGCAGGCCCGAAGA  
GAAAGCGAACTAGCATTGAGAACCGTGTGAGGTGGAGTCTGGAGACCATGTTTCTGAAGTCCCCGAAGCC  
CTCCCTACAGCAGATCACTCACATCGCCAATCAGCTTGGGCTAGAGAAGGATGTGGTTCGAGTATGGTTC  
TGTAACCGCGCCAGAAGGGCAAAGATCAAGTATTGAGTATCCCAACGAGAAGAGTATGAGGCTACAG  
GGACACCTTTCCAGGGGGGCTGTATCCTTCTCTGCCCCAGGTCCCCACTTTGGCACCCAGGCTA  
TGAAGCCCCACTTCACCACACTCTACTCAGTCCCTTTCTGAGGGCGAGGCCTTCCCTCTGTTC  
GTCACTGCTCTGGGCTCTCCCATGCATTCAAAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001252452
Insert Size:	666 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001252452.1</a></u> , <u><a href="#">NP_001239381.1</a></u>
<b>RefSeq Size:</b>	991 bp
<b>RefSeq ORF:</b>	666 bp
<b>Locus ID:</b>	18999
<b>Cytogenetics:</b>	17 18.69 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and uses a downstream, in-frame start codon, compared to variant 1. the encoded isoform (2) has a shorter N-terminus, compared to isoform 1.</p>