

## Product datasheet for **MR228586**

### **Pou5f1 (NM\_001252452) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Pou5f1 (NM\_001252452) 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  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228586 representing NM\_001252452  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAGCCCTGCAGAAGGAGCTAGAACAGTTTGCCAAGCTGCTGAAGCAGAAGAGGATCACCTTGGGGT  
ACACCCAGGCCGACGTGGGGCTCACCTGGGCGTTCTCTTTGGAAAGGTGTTAGCCAGACCACCATCTG  
TCGCTTCGAGGCCTTGACGCTCAGCCTTAAGAATGTGTAAGCTGCGGCCCTGCTGGAGAAGTGGGTG  
GAGGAAGCCGACAACAATGAGAACCCTTCAGGAGATATGCAAATCGGAGACCCTGGTGCAGGCCCGAAGA  
GAAAGCGAACTAGCATTGAGAACCGTGTGAGGTGGAGTCTGGAGACCATGTTTCTGAAGTCCCCGAAGCC  
CTCCCTACAGCAGATCACTCACATCGCCAATCAGCTTGGGCTAGAGAAGGATGTGGTTCGAGTATGGTTC  
TGTAACCGGCGCCAGAAGGGCAAAGATCAAGTATTGAGTATCCCAACGAGAAGAGTATGAGGCTACAG  
GGACACCTTTCCAGGGGGGGCTGTATCCTTTCTCTGCCCCAGGTCCCCACTTTGGCACCCAGGCTA  
TGAAGCCCCACTTCACCACACTCTACTCAGTCCCTTTCTGAGGGCGAGGCCTTCCCTCTGTTC  
GTCACTGCTCTGGGCTCTCCATGCATTCAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228586 representing NM\_001252452  
 Red=Cloning site Green=Tags(s)

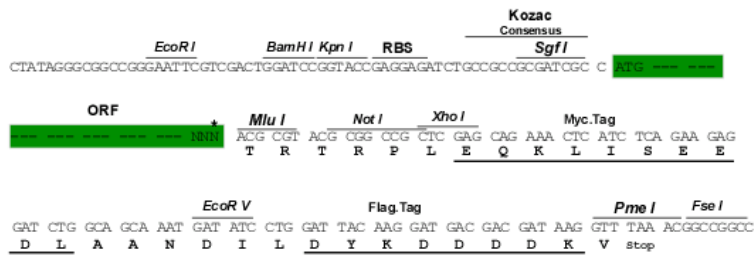
MKALQKELEQFAKLLKQKRITLGYTQADVGLTLGVLFGKVFSQTTICRFEALQLSLKNMCKLRPLLEKWW  
 EEADNNENLQEICKSETLVQARKRKRTSIENRVRWSLETMFLKCPKPSLQQITHIANQLGLEKDVVRVWF  
 CNRRQKGRSSIEYSQREEYEATGTPFPGGAVSFPLPPGPHFGTPGYGSPHFTTLYSVPFPEGEAFPSVP  
 VTALGSPMHSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

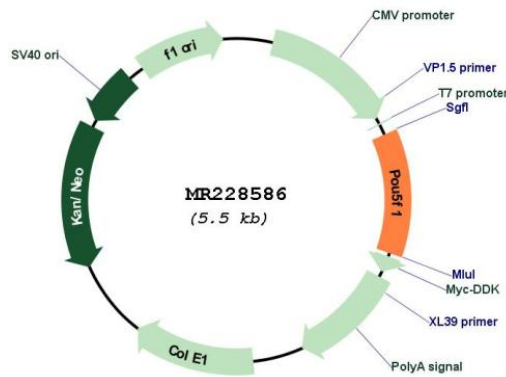
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001252452

ORF Size: 663 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001252452.1</a> , <a href="#">NP_001239381.1</a>
<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>MW:</b>	25.5 kDa
<b>Gene Summary:</b>	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]