

## Product datasheet for **RC231382**

### Oct-1 (POU2F1) (NM\_001198786) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oct-1 (POU2F1) (NM_001198786) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oct-1
Synonyms:	oct-1B; OCT1; OTF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC231382 representing NM\_001198786  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGACGGAGGAGCAGCGAGTCAAGATGAGAGTTCAGCCGCGCGGCAGCAGCAGACTCAAGAA  
TGAACAATCCGTCAGAAACAGTAAACCATCTATGGAGAGTGGAGATGGCAACACAGGCACACAAACCAA  
TGGTCTGGACTTTCAGAAGCAGCCTGTGCCTGTAGGAGGAGCAATCTCAACAGCCAGGCCAGGCTTTC  
CTTGGACATCTCCATCAGGTCCAACCTCGCTGGAACAAGTTTACAGGCTGCTGCTCAGTCTTTAAATGTAC  
AGTCTAAATCTAATGAAGAATCGGGGATTTCGAGCAGCAAGCCAGCCTTCCCAGCAGCCTTCAGTGCA  
GGCAGCCATTCCCAGACCCAGCTTATGCTAGCTGGAGGACAGATAACTGGGGATCTTCAACAACGTCAA  
CAGCTTCAACAGCAGAATCTCAACCTGCAACAGTTTGTGTTGGTGCATCCAACCACCAATTTGCAGCCAG  
CGCAGTTTATCATCTCACAGACGCCCCAGGGCCAGCAGGGTCTCCTGCAAGCGCAAAATCTTCTAACGCA  
ACTACCTCAGCAAAGCCAAGCCAACCTCCTACAGTCGAGCCAAGCATCACCTCACCTCCCAGCCAGCA  
ACCCCAACAGGCACAATAGCAGCAACCCCAATTCAGACACTTCCACAGAGCCAGTCAACACCAAAGCGAA  
TTGATACTCCCAGCTTGGAGGAGCCAGTGACCTTGGAGGAGCTTGAGCAGTTTGCCAAGACCTTCAAACA  
AAGACGAATCAAACCTTGGATTCACTCAGGGTATGTTGGGCTCGCTATGGGGAACTATATGAAATGAC  
TTCAGCCAAACTACCATCTCTCGATTTGAAGCCTTGAACCTCAGCTTTAAGAACATGTGCAAGTTGAAGC  
CACTTTTAGAGAAGTGGCTAAATGATGCAGAGAACCTCTCATCTGATTTCGTCCTCTCCAGCCCAAGTGC  
CCTGAATCTCCAGGAATTGAGGGCTTGGAGCCGTAGGAGGAAGAAACGCACCAGCATAGAGACCAACATC  
CGTGTGGCCTTAGAGAAGAGTTTCTTGGAGAATCAAAGCCTACCTCGGAAGAGATCACTATGATTGCTG  
ATCAGCTCAATATGGAAGAGAGGTGATTCGTGTTTGGTCTGTAAACCGCCGCAAGAAAGAAAAAGAAAT  
CAACCCCAAGCAGTGGTGGGACCAGCAGCTCACCTATTAAAGCAATTTCCCCAGCCCAACTCACTG  
GTGGCGACCACCAAGCCTTGTGACTAGCAGTGCAGCAACTACCTCACAGTCAGCCCTGTCTCCCTC  
TGACCAGTGTGCTGTGACGAATCTTTCAGTTACAGGCACTTCAGACACCACCTCCAACAACACAGCAAC  
CGTGATTTCCACAGCGCCTCCAGCTTCTCAGCAGTCACGTCCCCCTCTCTGAGTCCCTCCCCTTCTGCC  
TCAGCCTCCACCTCCGAGGCATCCAGTGCCAGTGAGACCAGCACAACACAGACCACCTCCACTCCTTTGT  
CCTCCCCTCTTGGGACCAGCCAGGTGATGGTGACAGCATCAGGTTTGCAAACAGCAGCAGCTGCTGCCCT  
TCAAGGAGCTGCACAGTTGCCAGCAAATGCCAGTCTTGTGTCATGGCAGCTGCTGCAGGACTAAACCCA  
AGCCTGATGGCACCTCAGATTTGCGGCTGGAGGTGCCTTACTCAGTCTGAATCCAGGGACCTGAGCG  
GTGCTCTCAGCCAGCTTAATGAGCAACAGTACTGGCAACTATTCAAGCTCTTGCTTCTGGTGGCTC  
TCTTCAAATAACATCACTTGATGCAACTGGAACTGGTATTTGCCAATGCGGGAGGAGCCCAACATC  
GTGACTGCCCTCTGTTCTGAACCTCAGAACCTCTCTCTGCTCACCAGCAACCCTGTTAGCTTGGTCT  
CTGCCCGCCGAGCATCTGCAGGGAACCTGTGACCTGTAGCCAGCCTTACGCCACCTCCACCTCTGCTGA  
GTCCATCCAGAACTCTCTTTCAGAGTGGCCTCTGCCAGCGGGGCTGCGTCCACCACCACCACCGCTCC  
AAGGCACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231382 representing NM\_001198786  
 Red=Cloning site Green=Tags(s)

MADGGAASQDESSAAAAAADSRMNNPSETSKPSMESGDGNTGTQTNGLDFKQKQPVVGGAIISTAQAQAF  
 LGHLHQVQLAGTSLQAAAQSLNVQSKSNEESGDSQQPSQPSQPSVQAAIPQTQLMLAGGQITGDLQQLQ  
 QLQQQNLNLQQFVLVHPTTNLQPAQFIIISQTPQGQGLLQAQNLTLQLPQQSQANLLQSQPSITLTSQPA  
 TPTRTIAATPIQTL PQSQSTPKRIDTPSLEEPSDLEEELEQFAKTFKQRRIKLGFTQGDVGLAMGKLYGND  
 FSQTTISRFEALNLSFKNMCKLPLLEKWLNDNAENLSSDSSLSSPSALNSPGIEGLSRRRKRKRTSIETNI  
 RVALEKSFLENQKPTSEEITMIADQLNMEKEVIRVWFCNRRQKEKRINPPSSGGTSSSPIKAIFFSPTSL  
 VATTPSLVTSSAATTLTVSPVLPLTSAAVTNLSVTGSDTTSNNTATVISTAPPASSAVTSPSLSPSPA  
 SASTSEASSASETSTTQTTSTPLSSPLGTSQVMVTASGLQTAQAAAALQGAALPANASLAAMAAAAGLNP  
 SLMAPSQFAAGGALLSLNPGTSLGALSPALMSNSTLATIQALASGGSLPITSLDATGNL VFANAGGAPNI  
 VTAPLFLNPQNL SLLT SNPVSLV SAAAA SAGNSAPVASLHATSTSAESI QNSLFTVASASGAAS TTTTAS  
 KAQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001198786

**ORF Size:** 2109 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\\_001198786.2](#)

**RefSeq ORF:** 2112 bp

**Locus ID:** 5451

**UniProt ID:** [P14859](#)

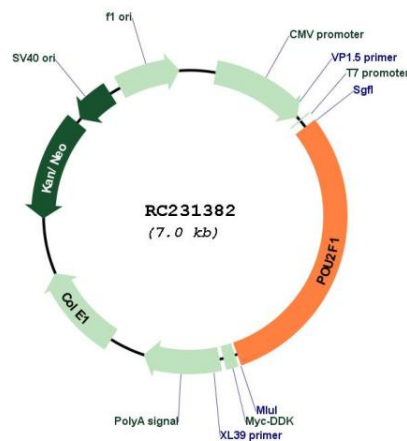
**Cytogenetics:** 1q24.2

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 72.5 kDa

**Gene Summary:** The OCT1 transcription factor was among the first identified members of the POU transcription factor family (summarized by Sturm et al., 1993 [PubMed 8314572]). Members of this family contain the POU domain, a 160-amino acid region necessary for DNA binding to the octameric sequence ATGCAAAT.[supplied by OMIM, Jul 2010]

## Product images:



Circular map for RC231382