

## Product datasheet for **RC230873**

### Oct-1 (POU2F1) (NM\_001198783) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oct-1 (POU2F1) (NM_001198783) 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:

>RC230873 representing NM\_001198783  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

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CCTCCACCTCTGCTGAGTCCATCCAGAACTCTCTTTCACAGTGGCTCTGCCAGCGGGCTGCTCCAC  
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >RC230873 representing NM\_001198783  
Red=Cloning site Green=Tags(s)

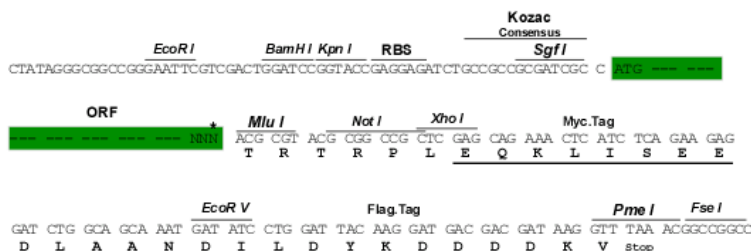
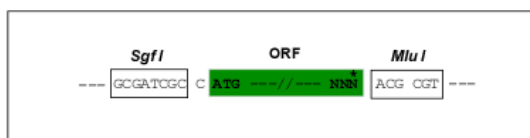
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 MCKLKPLLEKWL NDAENLSSDSSLSSPALSNSPGIEGLSRRRKRRTSIETNIRVALEKSFLNQKPTSEE  
 ITMIADQLNMEKEVIRVWF CNRRQKEKRINPPSSGGTSSSPIKAI FSPSTSLVATTPSLVTSSAATTLTV  
 SPVLPLTSAAVTNLSVTGTSDDTTSNNTATVISTAPPASSAVTSPSLSPSPSASASTSEASSASETSTTQT  
 TSTPLSSPLGTSQVMVTASGLQTA AAAALQGAQLPANASLAAMAAAAGLNPSLMAPSQFAAGGALLSLN  
 PGTLSGALSPALMSNSTLATIQALASGGLPITSLDATGNLVFANAGGAPNIVTAPLFLNPQNL SLLTSN  
 PVSLSVAAAASAGNSAPVASLHATSTSAESI QNSLFTVASASGAASTTTTASKAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001198783

**ORF Size:** 2265 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\\_001198783.2](#)

**RefSeq Size:** 14038 bp

**RefSeq ORF:** 2268 bp

**Locus ID:** 5451

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

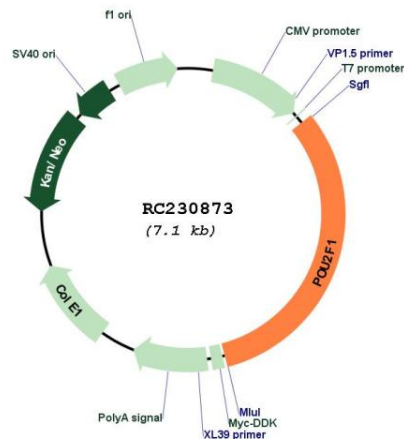
**Cytogenetics:** 1q24.2

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

**MW:** 77.9 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 RC230873