

Product datasheet for **RG231382**

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:	TurboGFP
Symbol:	Oct-1
Synonyms:	oct-1B; OCT1; OTF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG231382 representing NM_001198786
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGACGGAGGAGCAGCGAGTCAAGATGAGAGTTCAGCCGCGCGGCAGCAGCAGACTCAAGAA
TGAACAATCCGTCAGAAACCAAGTAAACCATCTATGGAGAGTGGAGATGGCAACACAGGCACACAAACCAA
TGGTCTGGACTTTCAGAAGCAGCCTGTGCCTGTAGGAGGAGCAATCTCAACAGCCAGGCCAGGCTTTTC
CTTGGACATCTCCATCAGGTCCAACCTCGCTGGAACAAGTTTACAGGCTGTGCTCAGTCTTTAAATGTAC
AGTCTAAATCTAATGAAGAATCGGGGATTTCGAGCAGCAAGCCAGCCTTCCCAGCAGCCTTCAGTGCA
GGCAGCCATTCCCAGACCCAGCTTATGCTAGCTGGAGGACAGATAACTGGGGATCTTCAACAACGTCAA
CAGCTTCAACAGCAGAATCTCAACCTGCAACAGTTTGTGTTGGTGCATCCAACCACCAATTTGCAGCCAG
CGCAGTTTATCATCTCACAGACGCCCCAGGGCCAGCAGGGTCTCCTGCAAGCGCAAAATCTTCTAACGCA
ACTACCTCAGCAAAGCCAAGCCAACCTCCTACAGTCGAGCCAAGCATCACCTCACCTCCCAGCCAGCA
ACCCCAACAGGCACAATAGCAGCAACCCCAATTCAGACACTTCCACAGAGCCAGTCAACACCAAAGCGAA
TTGATACTCCCAGCTTGGAGGAGCCAGTGACCTTGGAGGCTTGGAGCAGTTTGGCAAGACCTTCAAAACA
AAGACGAATCAAACCTTGGATTCACTCAGGGTATGTTGGGCTCGCTATGGGGAACTATATGAAATGAC
TTCAGCCAAACTACCATCTCTCGATTTGAAGCCTTGAACCTCAGCTTTAAGAACATGTGCAAGTTGAAGC
CACTTTTAGAGAAGTGGCTAAATGATGCAGAGAACCTCTCATCTGATTTCGTCCTCTCCAGCCCAAGTGC
CCTGAATCTCCAGGAATTGAGGGCTTGGAGCCGTAGGAGGAAGAAACGCACCAGCATAGAGACCAACATC
CGTGTGGCCTTAGAGAAGAGTTTCTTGGAGAATCAAAGCCTACCTCGGAAGAGATCACTATGATTGCTG
ATCAGCTCAATATGGAAAAAGAGGTGATTCGTGTTTGGTCTGTAAACCGCCGCAAAAGAAAAAAGAAAT
CAACCCACCAAGCAGTGGTGGGACCAGCAGCTCACCTATTAAAGCAATTTTCCCAGCCCAACTTCACTG
GTGGCGACCACACCAAGCCTTGTGACTAGCAGTGCAGCAACTACCTCACAGTCAGCCCTGTCTCCCTC
TGACCAGTGTGCTGTGACGAATCTTTCAGTTACAGGCACTTTCAGACACCACCTCCAACAACACAGCAAC
CGTGATTTCCACAGCGCCTCCAGCTTCTCAGCAGTCAGTCCCCCTCTCTGAGTCCCTCCCCTTCTGCC
TCAGCCTCCACCTCCGAGGCATCCAGTGCCAGTGAGACCAGCACAACACAGACCACCTCCACTCCTTTGT
CCTCCCCTCTTGGGACCAGCCAGGTGATGGTGACAGCATCAGGTTTGCAAACAGCAGCAGCTGCTGCCCT
TCAAGGAGCTGCACAGTTGCCAGCAAATGCCAGTCTTGTGTCATGGCAGCTGCTGCAGGACTAAACCCA
AGCCTGATGGCACCTCAGATTTGCGGCTGGAGGTGCCTTACTCAGTCTGAATCCAGGGACCTGAGCG
GTGCTCTCAGCCAGCTCTAATGAGCAACAGTACTGGCAACTATTCAAGCTCTTGCTTCTGGTGGCTC
TCTTCAAATAACATCACTTGATGCAACTGGAACTGGTATTTGCCAATGCGGGAGGAGCCCCAACATC
GTGACTGCCCCTCTGTTCTGAACCTCAGAACCTCTCTCTGCTCACCAGCAACCCTGTTAGCTTGGTCT
CTGCCCGCCGAGCATCTGCAGGGAATCTGCACCTGTAGCCAGCCTTACGCCACCTCCACCTCTGCTGA
GTCCATCCAGAATCTCTTTCAGAGTGGCCTCTGCCAGCGGGGCTGCGTCCACCACCACCACCGCTCC
AAGGCACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231382 representing NM_001198786
 Red=Cloning site Green=Tags(s)

```
MADGGAASQDESSAAAAAADSRMNNPSETSKPSMESGDGNTGTQTNGLDFQKQPVVGGAIISTAQAQAF
LGH LHQVQLAGTSLQAAAQSLNVQSKSNEESGDSQQPSQPSQVQAAIPQTQLMLAGGQITGDLQQLQ
QLQQQNLNLQQFVLVHPTTNLQPAQFIIISQTPQGQGLLQAQNLLTQLPQQSQANLLQSQPSITLTSQPA
TPTRTIAATPIQTL PQSQSTPKRIDTPSLEEPSDLEEELEQFAKTFKQRRRIKLGFTQGDVGLAMGKLYGND
FSQTTISRFEALNLSFKNMCKLKP LLEKWL NDAENLSSDSSLSSPSALNSPGIEGLSRRRKRTSIETNI
RVALEKSFLENQKPTSEEITMIADQLNMEKEVIRVWFCNRRQKEKRINPPSSGGTSSSPIKAI FPSPTSL
VATTPSLVTSSAATTLTVSPVPLTSAAVTNLSVTGSDTTSNNTATVISTAPPASSAVTSPSLSPSPA
SASTSEASSASETSTTQTTSTPLSSPLGTSQVMVTASGLQTA AAAALQGAAQLPANASLAAMAAAAGLNP
SLMAPSQFAAGGALLSLNPGT LSGALSPALMSNSTLATIQALASGGSLPITSLDATGNL VFANAGGAPNI
VTAPLFLNPQNL SLLTSNPVSLV SAAAA SAGNSAPVASLHATSTSAESI QNSLFTVASASGAAS TTTTAS
KAQ
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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 Size: 13716 bp

RefSeq ORF: 2112 bp

Locus ID: 5451

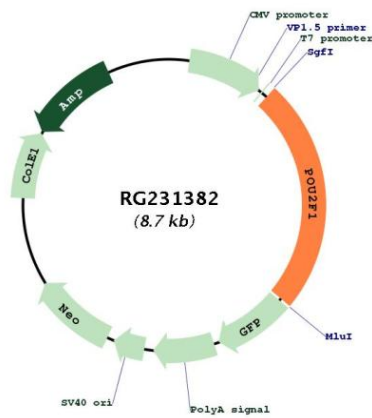
UniProt ID: [P14859](#)

Cytogenetics: 1q24.2

Protein Families: Druggable Genome, Transcription Factors

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 RG231382