

Product datasheet for **RG208599**

Oct-1 (POU2F1) (NM_002697) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oct-1 (POU2F1) (NM_002697) 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)



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ORF Nucleotide
Sequence:

>RG208599 representing NM_002697
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAACAATCCGTCAGAAACAGTAACCATCTATGGAGAGTGGAGATGGCAACACAGGCACACAAACCA
ATGGTCTGGACTTTCAGAAGCAGCCTGTGCCTGTAGGAGGAGCAATCTCAACAGCCAGGCGCAGGCTTT
CCTTGACATCTCCATCAGGTCCAACCTCGCTGGAAACAAGTTTACAGGCTGCTGCTCAGTCTTTAAATGTA
CAGTCTAAATCTAATGAAGAATCGGGGATTTCGCAGCAGCCAAGCCAGCCTTCCCAGCAGCCTTCAGTGC
AGGCAGCCATTCCCAGACCCAGCTTATGCTAGCTGGAGGACAGATAACTGGGCTTACTTTGACGCCTGC
CCAGCAACAGTTACTACTCCAGCAGGCACAGGCACAGGCACAGCTGCTGGCTGCTGCAGTGCAGCAGCAC
TCCGCCAGCCAGCAGCACAGTGTGCTGGAGCCACCATCTCCGCCTCTGCTGCCACGCCCATGACGCAGA
TCCCCCTGTCTCAGCCCATACAGATCGCACAGGATCTTCAACAACGCAACAGCTTCAACAGCAGAATCT
CAACCTGCAACAGTTTGTGTTGGTGCATCCAACCACCAATTTGCAGCCAGCGCAGTTTATCATCTCACAG
AGCCCCAGGGCCAGCAGGGTCTCTGCAAGCGCAAAATCTTCTAACGCAACTACCTCAGCAAAGCCAAG
CCAACCTCCTACAGTCGAGCCAAGCATCACCTCACCTCCCAGCCAGCAACCCCAACACGCACAATAGC
AGCAACCCCAATTCAGACACTTCCACAGAGCCAGTCAACACCAAAGCGAATTGATACTCCCAGCTTGGAG
GAGCCCAGTGACCTTGAGGAGCTTGAGCAGTTTGCCTAAGACCTTCAAACAAGACGAATCAAACCTGGAT
TCACTCAGGGTGTGTTGGGCTCGCTATGGGAAACTATATGAAATGACTTCAGCCAACTACCATCTC
TCGATTTGAAGCCTTGAACCTCAGCTTTAAGAACATGTGCAAGTTGAAGCCACTTTAGAGAAGTGGCTA
AATGATGCAGAGAACCTCTCATCTGATTCGCTCCCTCTCCAGCCCAAGTGCCTGAATTCAGGAATTG
AGGGCTTGAGCCGTAGGAGGAAGAAACGCACAGCATAGAGACCAACATCCGTGTGGCCTTAGAGAAGAG
TTTCTTGAGAAATCAAAAGCCTACCTCGGAAGAGATCACTATGATTGCTGATCAGCTCAATATGGAAAA
GAGGTGATTCTGTTGTTCTGTAACCGCCGCAAGAAAGAAAAAAGAAATCAACCCACCAAGCAGTGGTG
GGACCAGCAGCTCACCTATTAAGCAATTTTCCCAGCCCAACTTCACTGGTGGCGACCACCAAGCCT
TGTGACTAGCAGTGCAGCAACTACCCTCACAGTCAGCCCTGTCCTCCCTCTGACCAGTGTGCTGTGACG
AATCTTTCAGTTACAGGCACTTCAGACACCACCTCCAACAACACAGCAACCGTGATTTCCACAGCGCCTC
CAGCTTCCCTCAGCAGTCAGTCCCCTCTCTGAGTCCCTCCCTTCTGCCTCAGCCTCCACCTCCGAGGC
ATCCAGTGCCAGTGAGACCAGCACAACACAGACCCTCCACTCCTTTGTCTCCCTCTTGGGACCAGC
CAGGTGATGGTGACAGCATCAGTTTGCAAACAGCAGCAGCTGCTGCCCTCAAGGAGCTGCACAGTTGC
CAGCAAATGCCAGTCTTGTGCCATGGCAGCTGCTGCAGGACTAAACCCAAGCCTGATGGCACCCCTCACA
GTTTGGCGCTGGAGGTGCCTTACTCAGTCTGAATCCAGGGACCCTGAGCGGTGCTCTCAGCCAGCTCTA
ATGAGCAACAGTACACTGGCAACTATTCAAGCTTTGCTTCTGGTGGCTCTTCCAATAACATCACTTG
ATGCAACTGGGAACCTGGTATTTGCCAATGCGGGAGGAGCCCCAACATCGTGACTGCCCTCTGTTCTCT
GAACCTCAGAACCTCTCTCTGCTCACCAGCAACCCTGTTAGCTTGGTCTCTGCCGCCGAGCATCTGCA
GGGAACCTGCACCTGTAGCCAGCCTTCACGCCACCTCCACCTGCTGAGTCCATCCAGAATCTCTCT
TCACAGTGGCCTCTGCCAGCGGGCTGCGTCCACCACCACCACCGCTCCAAGGCACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208599 representing NM_002697
 Red=Cloning site Green=Tags(s)

MNNPSETSKPSMESGDGNTGTQTNGLDFQKQPVPVGGAI STAQAQAF LGHLHQVQLAGTSLQAAAQSLNV
 QSKSNEESGDSQQPSQPSQPSVQAAIPQTQLMLAGGQITGLTL TPAQQQLLQQAQAQQLAAAVQQH
 SASQQHSAAAGATISASAATPMTQIPLSQPIQIAQDLQQLQQLQQNLNLQQFVLVHPTTNLQPAQFIISQ
 TPQGQQGLLQAQNLTLQLPQQSQANLLQSQPSITLTSQPATPRTIAATPIQTL PQSQSTPKRIDTPSLE
 EPSDLEELEQFAKTFKQRRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPLLEKWL
 NDAENLSSDSSLSSPSALNSPGIEGLSRRRKRRTSIETNIRVALEKSFLENQKPTSEEITMIADQLNMEK
 EVIRVWFCNRQKEKRINPPSSGGTSSSPIKAI FSPSTSLVATTPSLVTSSAATLTVPVPLPTSAAVT
 NLSVTGSDTTSNNTATVISTAPPASSAVTSPSLSPSPSASASTSEASSASETSTTQTTSTPLSSPLGTS
 QVMVTASGLQTA AAAALQGAAQLPANASLAAMAAAAGLNPSLMAPSQFAAGGALLSLNPGLTSGALSPAL
 MSNSTLATIQALASGGSLPITSLDATGNLVFANAGGAPNIVTAPLFLNPQNL SLLTSNPVSLV SAAAASA
 GNSAPVASLHATSTSAESI QNSLFTVASASGAAS TTTTASKAQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_002697

ORF Size: 2229 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_002697.2](#), [NP_002688.2](#)

RefSeq Size: 2689 bp

RefSeq ORF: 2301 bp

Locus ID: 5451

UniProt ID: [P14859](#)

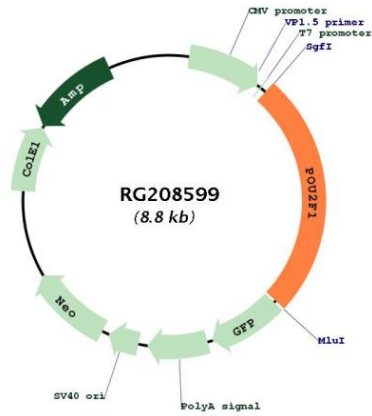
Cytogenetics: 1q24.2

Domains: POU, homeobox

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 RG208599