

Product datasheet for **RC208599**

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

Product data:

Product Type:	Expression Plasmids
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:

>RC208599 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGAACAATCCGTCAGAAACCAGTAAACCATCTATGGAGAGTGGAGATGGCAACACAGGCACACAAACCA
ATGGTCTGGACTTTCAGAAGCAGCCTGTGCCTGTAGGAGGAGCAATCTCAACAGCCCAGGCGCAGGCTTT
CCTTGGACATCTCCATCAGGTCCAACCTCGCTGGAACAAGTTTACAGGCTGCTGCTCAGTCTTTAAATGTA
CAGTCTAAATCTAATGAAGAATCGGGGATTTCGCAGCAGCCAAGCCAGCCTTCCAGCAGCCTTCAGTGC
AGGCAGCCATTCCCCAGACCCAGCTTATGCTAGCTGGAGGACAGATAACTGGGCTTACTTTGACGCCTGC
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TCCGCCAGCCAGCAGCACAGTGTGCTGGAGCCACCATCTCCGCCTCTGCTGCCACGCCCATGACGCAGA
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CAACCTGCAACAGTTTGTGTTGGTGCATCCAACCACCAATTTGCAGCCAGCGCAGTTTATCATCTCACAG
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CAGCTTCTCAGCAGTCACGTCCCCCTCTCTGAGTCCCTCCCTTCTGCCTCAGCCTCCACCTCCGAGGC
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TCACAGTGGCCTCTGCCAGCGGGCTGCGTCCACCACCACCACCGCTCCAAGGCACAG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
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Protein Sequence: >RC208599 protein sequence
Red=Cloning site Green=Tags(s)

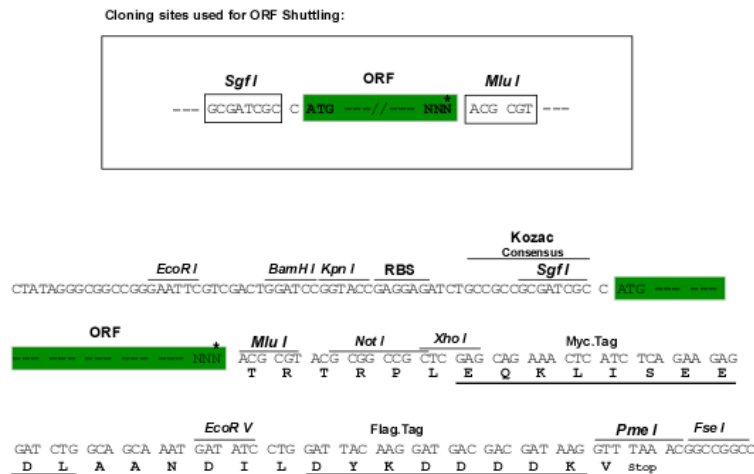
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EVIRVWFCNRRQKEKRINPPSSGGTSSSPIKAIFPSPTSLVATTPSLVTSSAATTLTVSPVLPLTSAAVT
NLSVTGTSDDTTSNNTATVISTAPPASSAVTSPSLSPSPSASASTSEASSASETSTTQTTSTPLSSPLGTS
QVMVTASGLQTA AAAALQGAAQLPANASLAAMAAAAGLNPSLMAPSQFAAGGALLSLNPGLSGALSPAL
MSNSTLATIQALASGGSLPITSLDATGNLVFANAGGAPNIVTAPLFLNPQNL SLLTSNPVSLV SAAAASA
GNSAPVASLHATSTSAESI QNSLFTVASASGAASTTTTASKAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6230_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



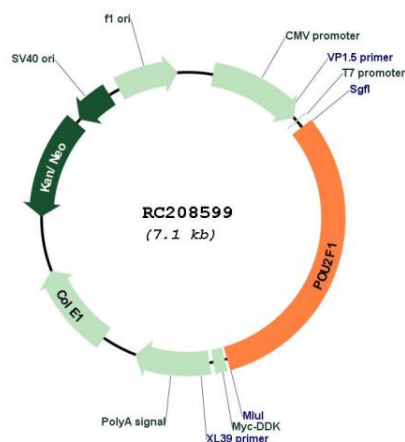
* The last codon before the Stop codon of the ORF

ACCN: NM_002697

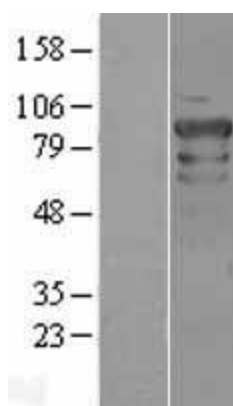
ORF Size: 2229 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002697.2 , NP_002688.2
RefSeq Size:	13905 bp
RefSeq ORF:	2301 bp
Locus ID:	5451
UniProt ID:	P14859
Cytogenetics:	1q24.2
Domains:	POU, homeobox
Protein Families:	Druggable Genome, Transcription Factors
MW:	76.5 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]

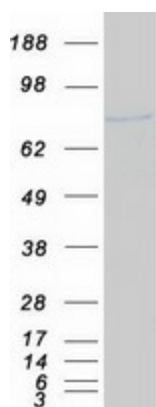
Product images:



Circular map for RC208599



Western blot validation of overexpression lysate (Cat# [LY419163]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208599 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POU2F1 protein (Cat# [TP308599]). The protein was produced from HEK293T cells transfected with POU2F1 cDNA clone (Cat# RC208599) using MegaTran 2.0 (Cat# [TT210002]).