

Product datasheet for RC233981

Oct-2 (POU2F2) (NM_001247994) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oct-2 (POU2F2) (NM_001247994) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oct-2
Synonyms:	Oct-2; OCT2; OTF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233981 representing NM_001247994 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTCCTCCAGCATGGGGCTCCAGAAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAGGTC
TGGACTCCCCATCAGAGCACACAGACACCCGAAAGAAATGGACCAGACACTAATCATCAGAACCCCCAAAA
TAAGACCTCCCCATTCTCCGTGTCCCAACTGGCCCCAGTACAAAGATCAAGGCTGAAGACCCAGTGCC
GATTCAGCCCCAGCAGCACCCCTGCCCCCTCAGCCGCCAGCCTCATCTGCCCCAGGCCAACTCATGT
TGACGGGCAGCCAGCTAGCTGGGGACATACAGCAGCTCCTCCAGTCCAGCAGCTGGTGTGTGCCAGG
CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTACCGCAGGCCAGCAGAGCCAGCCAGGCTGCTACCG
ACACCAAATCTATTCCAGCTACCTCAGCAAACCCAGGGAGCTCTTCTGACCTCCCAGCCCCGGGCCGGGC
TTCCACACAGCCCCCAATGCTTGGAGCCACCATCCCACCCGAGGAGCCAGTGATCTGGAGGAGCT
GGAGCAATTGCGCCGACCTTCAAGCAACGCCGCATCAAGCTGGGCTTACGCAGGGTGTGTGGCCCTG
GCCATGGGCAAGCTCTACGGCAACGACTTACGCCAGACGACCATTTCCCGCTTCGAGGCCCTCAACTGA
GCTTCAAGAACATGTGCAAACTCAAGCCCCTCCTGGAGAAGTGGCTCAACGATGCAGAGACTATGTCTGT
GGACTCAAGCCTGCCAGCCCCAACCCAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGCTGCCCGGCCGG
AGACGCAAGAAGAGGACCAGCATCGAGACAAACGTCGCTTCGCCTTAGAGAAGAGTTTTCTAGCGAACC
AGAAGCCTACCTCAGAGGAGATCCTGCTGATCGCCGAGCAGTGCACATGGAGAAGGAAGTGATCCGCT
CTGGTTCTGCAACCGGCCGAGAGGAGAAACGCATCAACCCCTGCAGTGCAGCCCCCATGCTGCCAGC
CCAGGGAAGCGGCCAGCTACAGCCCCATATGGTACACCCCAAGGGGGCGGGGACCTTACCCTGTG
CCCAAGCTTCCAGCAGTCTGAGCACAACAGCACAACCCAGCCCTCAAGGCAGCCACTCGGCTATCGGC
TTGTCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC233981 representing NM_001247994
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQGLDSPSEHTDTERNGPDTNHQNPQNKTSPFVSPTSPTKIKAEADPSG
 DSAPAAPLPPQPAQPHLPQAQLMLTGSQLAGDIQQLQLQLVLVPGHHLQPPAQFLLPQAQSQPGLLP
 TPNFLQLPQQTQGALLTSQPRAGLPTQPPKCLEPPSHPEEPSDLEEELEQFARTFKQRRIKLGFTQGDVGL
 AMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPILLEKWLNDAETMSVDSSLPSPNQLSSPSLGFGLPGR
 RRRKRTSIETNVRFALEKSFANQKPTSEEILLIAEQLHMEKEVIRVWFENRRQKEKRINPCSAAPMLPS
 PGKPASYSPPHMVTPQGGAGTLP L SQASSLSSTTAQTPALKAATRLSACQA

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_001247994

ORF Size: 1200 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_001247994.2](#)

RefSeq Size: 6768 bp

RefSeq ORF: 1203 bp

Locus ID: 5452

UniProt ID: [P09086](#)

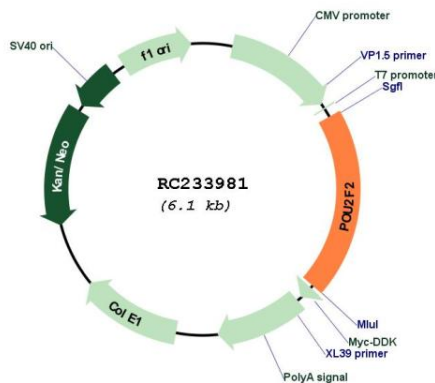
Cytogenetics: 19q13.2

Protein Families: Transcription Factors

MW: 44 kDa

Gene Summary: The protein encoded by this gene is a homeobox-containing transcription factor of the POU domain family. The encoded protein binds the octamer sequence 5'-ATTGTCAT-3', a common transcription factor binding site in immunoglobulin gene promoters. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC233981