

Product datasheet for **SC313594**

Oct-2 (POU2F2) (NM_002698) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oct-2 (POU2F2) (NM_002698) Human Untagged Clone
Tag: Tag Free
Symbol: Oct-2
Synonyms: Oct-2; OCT2; OTF2
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002698 edited
 ATGGTTCACTCCAGCATGGGGGCTCCAGAAATAAGAATGTCTAAGCCCCTGGAGGCCGAG
 AAGCAAGGTCTGGACTCCCATCAGAGCACACAGACACCGAAAGAAATGGACCAGACT
 AATCATCAGAACCSCCAAATAAGACTCCCATTCTCCGTGTCCCAACTGGCCCCAGT
 ACAAGATCAAGGCTGAAGACCCAGTGGCGATTAGCCCCAGCAGCACCCCTGCCCCCT
 CAGCCGGCCAGCCTCATCTGCCAGGCCAACTCATGTTGACGGGCAGCCAGTAGCT
 GGGGACATACAGCAGCTCCTCCAGCTCCAGCAGCTGGTGTGTGCCAGGCCACCACCTC
 CAGCCACCTGCTCAGTTCCTGCTACCGCAGGCCAGCAGAGCCAGCCAGGCCTGTACCG
 ACACCAAATCTATTCCAGCTACCTCAGCAAACCCAGGGAGCTCTTCTGACCTCCCAGCCC
 CGGGCCGGGCTTCCACACAGCCCCCAAATGCTTGGAGCCACCATCCCACCCGAGGAG
 CCCAGTGATCTGGAGGAGCTGGAGCAATTCGCCCCGACCTTCAAGCAACGCCGCATCAAG
 CTGGGCTTCAAGCAGGGTGTGTGGGCTGGCCATGGGCAAGCTCTACGCAACGACTTC
 AGCCAGACGACCAATTTCCCGCTTCGAGGCCCTCAACCTGAGCTTCAAGAATGTGCAAA
 CTCAAGCCCCTCCTGGAGAAGTGGCTCAACGATGCAGAGACTATGTCTGTGGACTCAAGC
 CTGCCAGCCCCAACAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGCCTGCCCGGCCGG
 AGACGCAAGAAGAGGACCAGCATCGAGACAAACGTCCGCTTCGCCTTAGAGAAGATTTT
 CTAGCGAACCAAGCCTACCTCAGAGGAGATCCTGTGATCGCCGAGCAGCTGCACATG
 GAGAAGGAAGTATCCGCGTCTGGTTCTGCAACCGGCCGAGAGGAGAAACGCATCAAC
 CCCTGCAGTGCGGCCCCATGCTGCCAGCCCAGGGAAGCCGCCAGCTACAGCCCCCAT
 ATGGTCAACCCCAAGGGGCGCGGGGACCTTACCGTTGTCCCAAGCTTCCAGCAGTCTG
 AGCACAACAGTTACTACCTTATCCTCAGCTGTGGGGACGCTCCACCCAGCCGGACAGCT
 GGAGGGGGTGGGGGCGGGGCGGGGCTGCGCCCCCTCAATTCCATCCCCTCTGTCACT
 CCCCCACCCCGCCACCACCAACAGCACAAACCCAGCCCTCAAGGCAGCCACTCGGCT
 ATCGGCTTGTGAGCCTGAACCCAGCACGGGCCCTGGCCTCTGGTGGAACCTGCCCT
 TACCAGCCTTGA

Restriction Sites: Please inquire



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ACCN:	NM_002698
Insert Size:	2100 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none">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_002698.1 , NP_002689.1
RefSeq Size:	2048 bp
RefSeq ORF:	1392 bp
Locus ID:	5452
UniProt ID:	P09086
Cytogenetics:	19q13.2
Domains:	POU, homeobox
Protein Families:	Transcription Factors

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'-ATTTGCAT-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]

Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.