

Product datasheet for **RG216813**

Oct-2 (POU2F2) (NM_002698) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Oct-2
Synonyms:	Oct-2; OCT2; OTF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG216813 representing NM_002698
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTTCACTCCAGCATGGGGCTCCAGAAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAGGTC
 TGGACTCCCCATCAGAGCACAGACACCGAAAGAAATGGACCAGACACTAATCATCAGAACCCCCAAAA
 TAAGACCTCCCCATTCTCCGTGTCCCAACTGGCCCCAGTACAAAGATCAAGGCTGAAGACCCCACTGGC
 GATTTCAGCCCCAGCAGCACCCCTGCCCCCTCAGCCGGCCAGCCTCATCTGCCCCAGGCCCAACTCATGT
 TGACGGGCAGCCAGCTAGCTGGGGACATACAGCAGCTCCTCCAGCTCCAGCAGCTGGTGCTTGTGCCAGG
 CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTACCGCAGGCCAGCAGAGCCAGCCAGGCCTGCTACCG
 ACACCAATCTATTCCAGCTACCTCAGCAAACCCAGGGAGCTCTTCTGACCTCCAGCCCCGGCGGGC
 TTCCACACAGCCCCCAATGCTTGGAGCCACCATCCACCCGAGGAGCCAGTGATCTGGAGGAGCT
 GGAGCAATTCGCCGCACCTTCAAGCAACGCCGATCAAGCTGGGCTTACGCGAGGTGATGTGGGCCTG
 GCCATGGGCAAGCTCTACGGCAACGACTTCAGCCAGACGACCATTTCCCGCTTCGAGGCCCTCAACCTGA
 GCTTCAAGAATATGTGCAAACTCAAGCCCCTCCTGGAGAAGTGGCTCAACGATGAGAGACTATGTCTGT
 GGACTCAAGCTGCCCAGCCCCAACAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGCTGCCGGCCGG
 AGACGCAAGAAGAGGACCAGCATCGAGACAAACGTCCGCTTCGCTTAGAGAAGAGTTTTCTAGCGAACC
 AGAAGCCTACCTCAGAGGAGATCCTGCTGATCGCCGAGCAGCTGCACATGGAGAAGGAAGTATCCGCGT
 CTGGTCTGCAACCGCGCCAGAAAGGAGAAACGCATCAACCCCTGCACTGCGGCCCCCATGCTGCCAGC
 CCAGGGAAGCCGGCCAGCTACAGCCCCATATGGTCACACCCCAAGGGGCGCGGGGACCTTACCGTTGT
 CCCAAGCTTCCAGCAGTCTGAGCACAACAGTTACTACCTTATCCTCAGCTGTGGGGACGCTCCACCCAG
 CCGGACAGCTGGAGGGGTGGGGGCGGGGCGGGGCTGCGCCCCCTCAATCCATCCCCTCTGTCACT
 CCCCCACCCCGGCCACCACCAACAGCACAAACCCAGCCCTCAAGGCAGCCACTCGGCTATCGGCTTGT
 CAGGCTGAACCCAGCACGGGCCCTGGCTCTGGTGAACCTGCCCCCTTACCAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

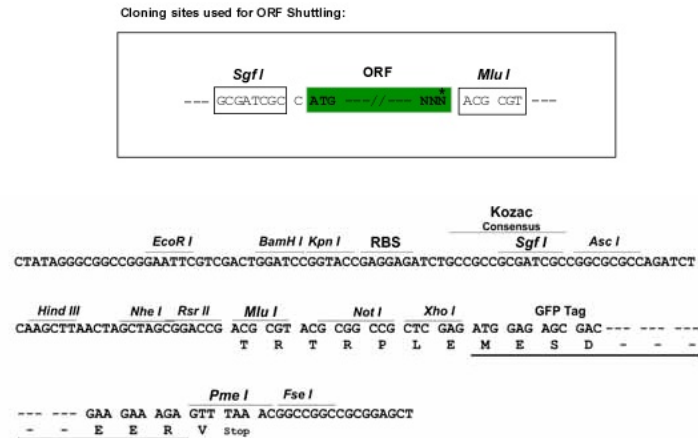
Protein Sequence: >RG216813 representing NM_002698
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQGLDSPSEHTDTERNGPDTNHQNPQNKTSPFSVSPTGPSTKIKAEPSG
 DSAPAAPLPQPAQPHLPQAQLMLTGSQLAGDIQQLQLQLVLPVGHHLQPPAQFLLPQAQQSQPGLLP
 TPNLFQLPQQTQGALLTSQPRAGLPTQPPKCLEPPSHPEEPSDLEELQFARTFKQRRIKLGFTQGDVGL
 AMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPLLEKWLNDATMSVDSSLPSPNQLSSPSLGFGLPGR
 RRRKRTSIETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVWFCNRRQKEKRINPCSAAPMLPS
 PGKPASYSYSPHMTVPQGGAGTLPLSQASSSLSTTVTTLSSAVGTLHPSRTAGGGGGGGAAPPLNSIPSVT
 PPPPATNTNPSPOGSHSAIGLSGLNPSTGPGLWNPAPYQP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002698

ORF Size: 1389 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.

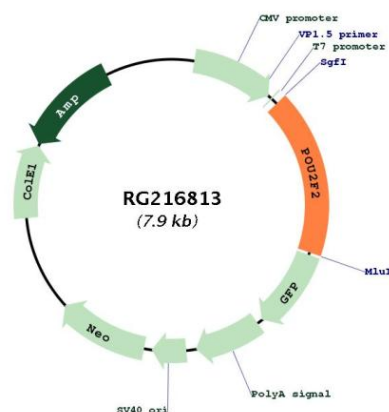
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_002698.5</u>
RefSeq Size:	2048 bp
RefSeq ORF:	1392 bp
Locus ID:	5452
UniProt ID:	<u>P09086</u>
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'-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 RG216813