

Product datasheet for **RG234185**

Oct-2 (POU2F2) (NM_001207026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oct-2 (POU2F2) (NM_001207026) Human Tagged ORF Clone
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:

>RG234185 representing NM_001207026
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTTCACTCCAGCATGGGGCTCCAGAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAGGTC
 TGGACTCCCATCAGAGCACACAGACACCGAAAGAAATGGACCAGACACTAATCATCAGAACCCCAAAA
 TAAGACCTCCCCATTCTCCGTGTCCCAACTGGCCCCAGTACAAAGATCAAGGCTGAAGACCCCAAGTGGC
 GATTCAGCCCCAGCAGCACCCCTGCCCCCTCAGCCGGCCAGCCTCATCTGCCCCAGGCCAACTCATGT
 TGACGGGCAGCCAGCTAGCTGGGACATACAGCAGCTCCTCCAGCTCCAGCAGCTGGTGCTGTGCCAGG
 CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTACCGCAGGCCAGCAGAGCCAGCCAGGCTGCTACCG
 ACACCAAATCTATTCCAGCTACCTCAGCAAACCCAGGGAGCTCTTCTGACCTCCCAGCCCCGGCCGGGC
 TTCCACACAGGCCGTGACCCGCCCTACGCTGCCCGACCCGCACCTCTCGCACCCGACGCCCCCAATG
 CTTGGAGCCACCATCCCACCCGAGGAGCCAGTGATCTGGAGGAGCTGGAGCAATTCGCCCGCACCTTC
 AAGCAACGCCGCATCAAGCTGGGCTTACGCAGGGTGATGTGGGCTGGCCATGGGCAAGCTCTACGGCA
 ACGACTTCAGCCAGACGACCATTTCCCGCTTCGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAACT
 CAAGCCCCCTCTGGAGAAGTGGCTCAACGATGCAGAGACTATGTCTGTGGACTCAAGCTGCCAGCCCC
 AACCAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGCTGCCCGCCGGAGACGCAAGAAGAGGACCAGCA
 TCGAGACAAACGTCGCTTCGCCTTAGAGAAGAGTTTTCTAGCGAACAGAAAGCCTACCTCAGAGGAGAT
 CCTGCTGATCGCCGAGCAGCTGCACATGGAGAAGAGTGATCCGCGCTGGTTCGCAACCGCGCCAG
 AAGGAGAAACGCATCAACCCCTGCAGTGCGCCCCCATGCTGCCAGCCAGGGAAGCCGCGCCAGCTACA
 GCCCCATATGGTCACACCCCAAGGGGGCGGGGACCTTACCGTTGTCCCAAGCTTCAGCAGCTTGAG
 CACAACAGTTACTACCTTATCCTCAGCTGTGGGACGCTCCACCCAGCCGGACAGCTGGAGGGGGTGGG
 GGCGGGGGCGGGGCTGCGCCCCCTCAATTCCATCCCCTCTGTCACTCCCCACCCCGGCCACCA
 ACAGCACAAACCCAGCCCTCAAGGCAGCCACTCGGCTATCGGCTGTGAGGCCTGAACCCAGCACGGG
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234185 representing NM_001207026
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQGLDSPSEHTDTERNGPDTNHQNPQNKTSFVSVSPTGPSTKIKAEPSG
 DSAPAAPLPPQPAQPHLPQAQLMLTGSQLAGDIQQLQLQLVLVPGHHLQPPAQFLLPQAQSQPGLLP
 TPNLFQLPQQTQGALLTSQPRAGLPTQAVTRPTLPDPHLSHPQPPKCLEPPSHPEEPSDLEELQFARTF
 KQRRIKLGFQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPILLEKWLNDAEATMSVDSLLPSP
 NQLSSPSLGFGLPGRRRKRRTSIETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVWFCNRRQ
 KEKRINPCSAAPMLPSPGPKASYSPhMVTQGGAGTLPLSQASSLSTTVTTLSSAVGTLHPSRTAGGGG
 GGGGAAPLNSIPSVTPPPPATTNSTNPSQGSASHGLSGLNPSTG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001207026

ORF Size: 1401 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_001207026.1](#), [NP_001193955.1](#)

RefSeq Size: 1703 bp

RefSeq ORF: 1404 bp

Locus ID: 5452

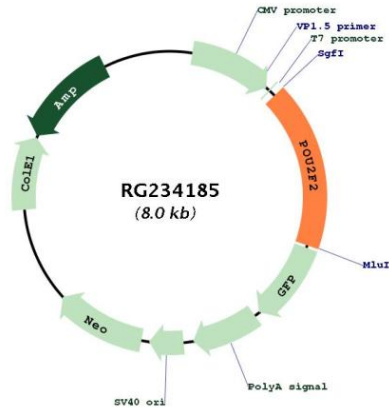
UniProt ID: [P09086](#)

Cytogenetics: 19q13.2

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]

Product images:



Circular map for RG234185