

Product datasheet for **RG234223**

Oct-2 (POU2F2) (NM_001207025) 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)



[View online »](#)

ORF Nucleotide Sequence: >RG234223 representing NM_001207025
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTTCACTCCAGCATGGGGCTCCAGAAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAGGTC
 TGGACTCCCATCAGAGCACAGACACCGAAAGAAATGGACCAGACACTAATCATCAGAACCCCAAAA
 TAAGACCTCCCCATTCTCCGTGTCCCAACTGGCCCCAGTACAAAGATCAAGGCTGAAGACCCCACTGTC
 GATTTCAGCCCCAGCAGCACCCTGCCCCCTCAGCCGGCCAGCCTCATCTGCCCCAGGCCCAACTCATGT
 TGACGGGACGCCAGCTAGCTGGGGACATACAGCAGCTCCTCCAGCTCCAGCAGCTGGTGTGTGCCAGG
 CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTACCGCAGGCCAGCAGAGCCAGCCAGGCTGCTACCG
 ACACCAAACTATTCCAGCTACCTCAGCAAACCCAGGAGGCTCTTCTGACCTCCAGCCCCGGCGGGC
 TTCCACACAGGCCGTGACCCGCCCTACGCTGCCGACCCGACCTCTCGACCCGAGCCCCCAATG
 CTTGGAGCCACCATCCACCCGAGGAGCCAGTGATCTGGAGGAGCTGGAGCAATTCGCCGACCTTC
 AAGCAACGCCGATCAAGCTGGGCTTACGCAGGGTGTGTGGGCTGGCCATGGCAAGCTCTACGGCA
 ACGACTTCAGCCAGACGACCATTTCCCGCTTCGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAACT
 CAAGCCCCCTCTGGAGAAGTGGCTCAACGATGCAGAGACTATGTCTGTGGACTCAAGCTGCCAGCCCC
 AACCAGCTGAGCAGCCCCAGCTGGGTTTCGACGGCTGCCCGGCCGAGACGCAAGAAGAGGACCAAGCA
 TCGAGACAAACGTCCGCTTCGCCTTAGAGAAGAGTTTCTAGCGAACCAGAAGCCTACCTCAGAGGAGAT
 CCTGCTGATCGCCGAGCAGCTGCACATGGAGAAGGAAGTATCCGCGTCTGGTCTGCAACCGGCCAG
 AAGGAGAAACGCATCAACCCCTGCAGTGCGGCCCCATGCTGCCAGCCAGGGAAGCCGCCAGCTACA
 GCCCCATATGGTCACACCCCAAGGGGCGCGGGACCTTACCGTTGTCCCAAGCTTCCAGCAGTCTGAG
 CACAACAGTTACTACCTTATCCTCAGCTGTGGGACGCTCCACCCAGCCGACAGCTGGAGGGGTGGG
 GGCGGGGGGGGGTGCGCCCCCTCAATTCCATCCCTCTGTCACTCCCCACCCCGGCCACCAACCA
 ACAGCAAAACCCAGCCCTCAAGGCAGCAGCTCGGCTATCGGCTGTGACGGCTGAACCCAGCACGGG
 CCCTGGCCTCTGGTGAACCTGCCCTTACCAGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234223 representing NM_001207025
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQGLDSPSEHTDTERNGPDTHQNPQNKTSPFSVSPTGPSTKIKAEPSG
 DSAPAAPLPQPAQPHLPQAQLMLTGSQLAGDIQQLQLQLVLPVGHLLQPPAQFLLPQAQSQPGLLP
 TPNLFQLPQQTQGALLTSQPRAGLPTQAVTRPTLPDPLSHPPQPPKLEPPSHPEEPSDLEELEQFARTF
 KQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKLPLEKWLNDATMSVDSSLSP
 NQLSSPSLGFDPGRRRKRTSIETNVRFALEKSFANQKPTSEEILLIAEQLHMEKEVIRVWFNRRQ
 KEKRINPCSAAPMLPSPGKPASYSHPMVTPOGGAGTLPQSASSLSTTVTTLSSAVGLHPSRTAGGGG
 GGGGAAPPLNSIPSVTPPPATTNSTNPSPOGSHSAIGLSGLNPSTGPGLWNPAPYQP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001207025

ORF Size: 1437 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001207025.3](#)

RefSeq Size: 6952 bp

RefSeq ORF: 1440 bp

Locus ID: 5452

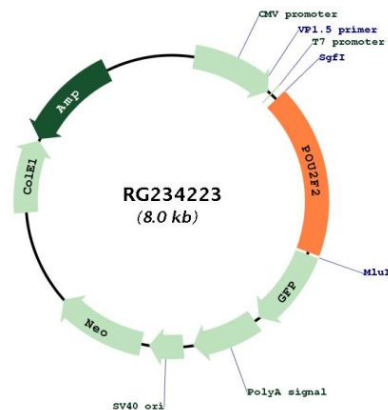
UniProt ID: [P09086](#)

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'-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 RG234223