

Product datasheet for **MG224033**

Pou2f2 (NM_001163556) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou2f2 (NM_001163556) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pou2f2
Synonyms:	Oct-2; Oct2a; Oct2b; Oct2c; Oct2d; Otf-2; Otf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224033 representing NM_001163556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTCAATCCAGCATGGGGCTCCAGAAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAAGTC
 TGGACTCCCCGTAGAGCACACAGACACCGAAAGAAATGGACCCGACATTAACCATCAGAACCCCCAGAA
 TAAAGCGTCCCCATTCTCTGTGTCCCAACTGGCCCCAGCACAAGATCAAGGCTGAAGACCCCACTGTC
 GATTACGCCCCAGCAGCACCCCCGCCCCAGCCGGCTCAGCCTCATCTGCCAGGCCCAACTCATGC
 TGACGGGCAGCCAGCTAGCTGGGACATACAGCAACTCCTCCAGCTCCAGCAGCTGGTGTGTGCCCGG
 CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTGCCACAGGCACAGCAGAGTCAGCCAGGCCCTGCTACCA
 ACGCCAAATCTATTCCAGCTACCTCAACAAACCCAGGGAGCTCTCCTGACCTCCAGCCCGGGCTGGGC
 TTCTACACAGCCCCGAAATGCTTGGAGCCGCCCTCCACCCGGAGGAGCCAGCGATCTGGAGGAGCT
 GGAACAGTTTGTCTGCACCTTCAAGCAACGCCGATCAAGCTGGGCTTACACAGGCTGATGTGGGCCTG
 GCCATGGCAAGCTCTATGGCAACGACTTCAGCCAAACGACCATTTCCCGCTTCGAGGCCCTCAACCTGA
 GCTTCAAGAACATGTGTAAGCAAGCCCTCCTGGAGAAGTGGCTCAACGACGCAGAGACTATGTCTGT
 GGATTAAGCCTACCCAGCCAAACAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGGCTGCCGGGGCGG
 AGACGCAAGAAGAGGACCAGCATCGAGACGAATGTCCGCTTCGCCTTAGAGAAGAGTTTCTAGCGAACC
 AGAAGCCTACCTCAGAGGAGATCCTGCTGATCGCAGAGCAGCTGCACATGGAGAAGGAAGTATCCGCGT
 CTGGTTCTGCAACCGGCCGAGAAGGAGAAACGCATCAACCTTGAGTGGGCCCCATGCTGCCAGC
 CCGGAAAGCCGACCAGCTACAGCCCTCACCTGGTCACACCCAAAGGGGGCAGGGACCTACCATTTGT
 CCCAAGCTTCTAGCAGTCTGAGCACAACAGTACTACCTTATCCTCAGCTGTGGGGACGCTCCATCCCAG
 CCGGACAGCAGGAGGGGTGGGGTGGGGCGGAGCTGCCGCCCTCAATTCCATCCCCTCTGTCACT
 CCCCCACCCCGCCACCACCAACAGCACAACCCGAGCCCTCAAGGCAGCCACTCGGCTATTGGCTTGT
 CGGCCTGAACCCAGCGCGGCCCTGGCTCTGGTGAACCTGCCCTTACCAGCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224033 representing NM_001163556
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQSLDSPSEHTDTERNGPDINHQNPNKASPFVSVPTGPSTKIKAEADPSG
 DSAPAAPPPQPAQPHLPQAQLMLTGSQLAGDIQQLQLQLVLVPGHHLQPPAQFLLPQAQQSQPGLLP
 TPNLFQLPQQTQGALLTSQPRAGLPTQPPKCLEPPSHPEEPSDLEELQFARTFKQRRIKLGFTQGDVGL
 AMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPILLEKWLNDAETMSVDSSLSPSNQLSSPSLGFGLPGR
 RRRKRTSIETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVWFNRRQKEKRINPCSAAPMLPS
 PGKPTSYSPHLVTPQGGAGTLPQSASSLSTTVTTLSSAVGTLHPSRTAGGGGGGGAAPPLNSIPSVT
 PPPPATNSTNPSQGSASHAIGLSGLNPSAGPGLWNPAPYQP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001163556

ORF Size: 1389 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_001163556.1](#), [NP_001157028.1](#)

RefSeq Size: 3249 bp

RefSeq ORF: 1392 bp

Locus ID: 18987

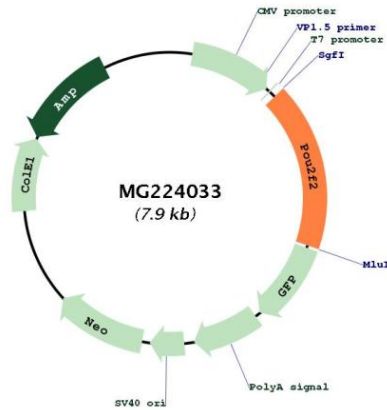
UniProt ID: [Q00196](#)

Cytogenetics: 7 13.73 cM

Gene Summary:

Transcription factor that specifically binds to the octamer motif (5'-ATTTGCAT-3'). Regulates transcription in a number of tissues in addition to activating immunoglobulin gene expression. Modulates transcription transactivation by NR3C1, AR and PGR. Isoform OCT2.5 activates the U2 small nuclear RNA (snRNA) promoter. Isoforms OCT2.1, OCT2.2 and OCT2.3 activate octamer-containing promoters. Isoforms OCT2.4 and OCT2.5 repress some promoters and activate others. Isoform OCT2.7 is unable to bind to the octamer motif, but can still activate the beta-casein gene promoter at low levels.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224033