

## Product datasheet for **MG224028**

### **Pou2f2 (NM\_001163554) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pou2f2 (NM_001163554) 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:**

>MG224028 representing NM\_001163554  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTTCAATCCAGCATGGGGCTCCAGAAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAAGTC  
 TGGACTCCCGTCAGAGCACACAGACACCGAAAGAAATGGACCCGACATTAACCATCAGAACCCCCAGAA  
 TAAAGCGTCCCCATTCTCTGTGTCCCAACTGGCCCCAGCACCAAGATCAAGGCTGAAGACCCCACTGCG  
 GATTACGCCCCAGCAGCACCCCCGCCCCAGCCGGCTCAGCCTCATCTGCCCCAGGCCCAACTCATGC  
 TGACGGGCAGCCAGCTAGCTGGGACATACAGCAACTCCTCCAGCTCCAGCAGCTGGTGCTGTCCCGG  
 CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTGCCACAGGCACAGCAGAGTCAGCCAGGCCCTGCTACCA  
 ACGCCAAATCTATTCCAGCTACCTCAACAAACCCAGGGAGCTCTCCTGACCTCCAGCCCGGGCTGGG  
 TTCTACACAGCCCCGAAATGCTTGGAGCCGCCCTCCACCCGGAGGAGCCAGCGATCTGGAGGAGCT  
 GGAACAGTTTGTCTGCACCTTCAAGCAACGCCGATCAAGCTGGGCTTACACAGGGTATGTGGGCGCTG  
 GCCATGGCAAGCTCTATGGCAACGACTTCAGCCAAACGACCATTTCCCGCTTCGAGGCCCTCAACCTGA  
 GCTTCAAGAACATGTGTAAGCAAGCCCTCCTGGAGAAGTGGCTCAACGACGCAGAGACTATGTCTGT  
 GGATTAAGCCTACCCAGCCCAAACAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGGCTGCCGGGGCGG  
 AGACGCAAGAAGAGGACCAGCATCGAGACGAATGTCCGCTTCGCCTTAGAGAAGAGTTTCTAGCGAACC  
 AGAAGCCTACCTCAGAGGAGATCCTGCTGATCGCAGAGCAGCTGCACATGGAGAAGGAAGTATCCGCGT  
 CTGGTTCTGCAACCGGCCGAGAAGGAGAAACGCATCAACCTTGCAAGTGGGCCCCATGCTGCCCAGC  
 CCGGAAAAGCCGACCAGCTACAGCCCTCACCTGGTACACCCCAAGGGGGCGCAGGGACCTTACCATTGT  
 CCCAAGCTTCTAGCAGTCTGAGCACAACAGTTACTACCTTATCCTCAGCTGTGGGAGCCTCCATCCAG  
 CCGGACAGCAGGAGGGGTGGGGTGGGGCGGAGCTGCGCCCCCTCAATTCCATCCCCTCTGTCACT  
 CCCCCACCCCGCCACCACCAACAGCACAACCCGAGCCCTCAAGGCAGCCACTCGGCTATTGGCTTGT  
 CGGGCTGAACCCAGCGCGGGAAGCACAATGGTGGGTTGAGCTCTGGGCTGAGTCCAGCCCTCATGAG  
 CAACAACCTTTGGCCACTATCCAAGCCCTGGCCTCTGGTGAACCTGCCCTTACCAGCCTTGTAGGC  
 AGCGGGAACCTGGTGTGGGGCAGCCGGTGGGCCCCAGGGAGTCCCAGCTTAGTAACCTCGCCTCTCT  
 TCTTGAACCACACCGGTCTGCCGCTGCTCAGTCCCCACCAGGCGTGGGCTGGTCTCAGCGGGGCTGC  
 AGCCGTAGCAGCATCCATCTCCAGCAAGTCTCCTGGCCTCTCCTCGTCTTCTTCATCCTCATCATCTCC  
 ACGTGCAGTGATGTGGCAGCACAGACCCCTGGAGCCCCGGAGGACCCGAGGCGGGTCCAAGGCTGAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224028 representing NM\_001163554  
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQSLDSPSEHTDTERNGPDINHQNPNKASPFVSVPTGPSTKIKAE DPSG  
 DSAPAAPPPPQAQPHLPQAQLMLTGSQLAGDIQQLLQLQQLVLPVGHHLQPPAQFLLPQAQQSQPGLLP  
 TPNLFQLPQQTQGALLTSQPRAGLPTQPPKLEPPSHPEEPSDLEELEQFARTFKQRRIKLGFQTQGDVGL  
 AMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPLLEKWLND AETMSVDSLSPSNQLSSPSLGFGLPGR  
 RRKKRTSIETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVWFCNRRQKEKRINPCSAAPMLPS  
 PGKPTSYSPHLVTPQGGAGTLPLSQASSLSTTVTTLSSAVGTLHPSRTAGGGGGGGAAPLNSIPSVT  
 PPPPATNNTNPSQGSLSAIGLSGLNPSAGSTMVGLSSGLSPALMSNNPLATIQLASGGTLPLTSLDG  
 SGNLVLAAGAAPGSPSLVTSPLFLNHTGLPLLSAPPGVGLVAAAAVAASISSKSPGLSSSSSSSSSS  
 TCSDVAAQTPGGPGPEAGSKAE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001163554

**ORF Size:** 1749 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\\_001163554.1](#), [NP\\_001157026.1](#)

**RefSeq Size:** 3323 bp

**RefSeq ORF:** 1752 bp

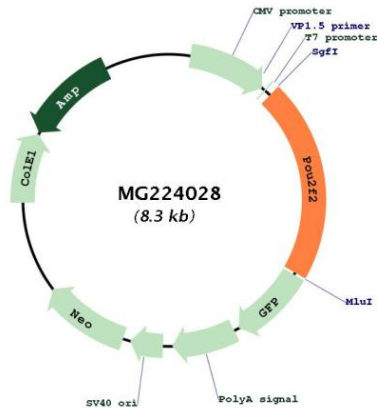
**Locus ID:** 18987

**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 MG224028