

Product datasheet for **MG224842**

Pou2f2 (NM_001163555) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou2f2 (NM_001163555) 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:

>MG224842 representing NM_001163555
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTCAATCCAGCATGGGGCTCCAGAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAAGTC
 TGGACTCCCCGTAGAGCACACAGACACCGAAAGAAATGGACCCGACATTAACCATCAGAACCCCCAGAA
 TAAAGCGTCCCCATTCTCTGTGTCCCAACTGGCCCCAGCACCAAGGTGGGCATTCTCTCTGGCCTCCAC
 TTAACATTCTGGGGTCCCGGACCCTGCCTCTCTCTCCCCAGATCAAGGCTGAAGACCCAGTGGCGATT
 CAGCCCCAGCAGACCCCCGCCCCAGCCGGCTCAGCCTCATCTGCCCCAGGCCCAACTCATGCTGAC
 GGGCAGCCAGCTAGTGGGGACATACAGCAACTCCTCCAGCTCCAGCAGCTGGTGTCTGCCCGGCCAC
 CACCTCCAGCCACCTGCTCAGTTCCTGCTGCCACAGGCACAGCAGAGTCAGCCAGGCCTGTACCAACGC
 CAAATCTATTCCAGCTACCTCAACAAACCAGGGAGCTCTCTGACCTCCAGCCCCGGGTGGGCTTCC
 TACACAGCCCCGAAATGCTTGGAGCCGCCCTCCACCCGGAGGAGCCAGCGATCTGGAGGAGCTGGAA
 CAGTTTGTCTCGCACCTTCAAGCAACGCCGCATCAAGCTGGGCTTACACAGGGTGTGTGGGCTGGCCA
 TGGGAAGCTCTATGGCAACGACTTCAGCCAAACGACCATTTCCCGCTTCGAGGCCCTCAACCTGAGCTT
 CAAGAACATGTGTAAGCTCAAGCCCCTCCTGGAGAAGTGGCTCAACGACGCAGAGACTATGTCTGTGGAT
 TCAAGCCTACCCAGCCAAACCAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGGCTGCCGGGGCGGAGAC
 GCAAGAAGAGGACCAGCATCGAGACGAATGTCCGCTTCGCCTTAGAGAAGAGTTTCTAGCGAACAGAA
 GCCTACCTCAGAGGAGATCCTGCTGATCGCAGAGCAGTCACATGGAGAAGGAAGTATCCGCTGTGG
 TTCTGCAACCGGGCCAGAAGGAGAAACGCATCAACCTTGCAGTGGGGCCCCATGCTGCCAGCCGG
 GAAAGCCGACCAGCTACAGCCCTCACCTGGTACACCCCCAAGGGGGCGCAGGGACCTTACCATTTGCCA
 AGCTTCTAGCAGTCTGAGCACAACAGTTACTACCTTATCCTCAGCTGTGGGGAGCCTCCATCCAGCCGG
 ACAGCAGGAGGGGTGGGGTGGGGCGGAGCTGCGCCCCCTCAATTCCATCCCTCTGTCACTCCCC
 CACCCCGGCCACCACCAACAGCACAACCCGAGCCCTCAAGGCAGCCACTCGGCTATTGGCTTGTGGG
 CCTGAACCCAGCGGGCCCTGGCCTCTGGTGAACCTGCCCTTACCAGCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224842 representing NM_001163555
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQSLDSPSEHTDTERNGPDINHQNPNKASPFVSVPTGPSTKVGILSGLH
 LTFWGPGLSPPQIKAEDPSGDSAPAAPPPQPAQPHLPQAQLMLTGSQLAGDIQQLLQLQLVLVPGH
 HLQPPAQFLLPQAQSQPGLLPTPNLFQLPQQTQGALLTSQPRAGLPTQPPKCLEPPSHPEEPSDLEELE
 QFARTFKQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPILLEKWLNDAAETMSVD
 SSLPSPNQLSSPSLGFGLPGRRRRKRRTSLETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVW
 FCNRRQKEKRINPCSAAPMLPSPGKPTSYSPHLVTPQGGAGTLPQSASSLSTTVTTLSSAVGTLHPSR
 TAGGGGGGGAAPPLNSIPSVTPPPPATTNSTNPSQGSASHAIGLSGLNPSAGPGLWNPAPYQP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001163555

ORF Size: 1455 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_001163555.1](#), [NP_001157027.1](#)

RefSeq Size: 3315 bp

RefSeq ORF: 1458 bp

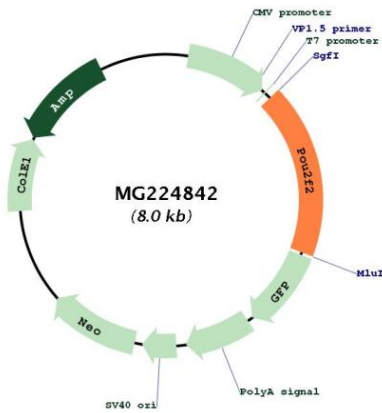
Locus ID: 18987

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 MG224842