

Product datasheet for **MG223353**

Pou2f2 (NM_011138) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou2f2 (NM_011138) 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:

>MG223353 representing NM_011138
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTCAATCCAGCATGGGGCTCCAGAAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAAGTC
 TGGACTCCCCGTAGAGCACACAGACACCGAAAGAAATGGACCCGACATTAACCATCAGAACCCCCAGAA
 TAAAGCGTCCCCATTCTCTGTGTCCCAACTGGCCCCAGCACCAAGATCAAGGCTGAAGACCCCACTGAGC
 GATTCAGCCCCAGCAGCACCCCCGCCCCAGCCGGCTCAGCCTCATCTGCCAGGCCCAACTCATGCTG
 TGACGGGCAGCCAGCTAGCTGGGACATACAGCAACTCCTCCAGCTCCAGCAGCTGGTGTCTGTCCCGG
 CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTGCCACAGGCACAGCAGAGTCAGCCAGGCCCTGCTACCA
 ACGCCAAATCTATTCCAGCTACCTCAACAAACCCAGGGAGCTCTCCTGACCTCCAGCCCCGGGCTGGGC
 TTCTACACAGGCTATGACTCGCCCCACGCTGCCCGACCCACACCTCTCACACCCGAGCCCCGAAATG
 CTTGGAGCCGCCCTCCACCCGAGGAGCCAGCGATCTGGAGGAGCTGGAACAGTTTGTCTGCACCTTC
 AAGCAACGCCGCATCAAGCTGGGCTTACACAGGGTGATGTGGGCTGGCCATGGGCAAGCTCTATGGCA
 ACGACTTCAGCCAAACGACCATTTCCCGCTTCGAGGCCCTCAACCTGAGCTTCAAGAACATGTGTAAGT
 CAAGCCCCCTCTGGAGAAGTGGCTCAACGACGCAGAGACTATGTCTGTGGATTCAAGCCTACCCAGCCCCA
 AACCAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGGCTGCCGGGGCGGAGACGCAAGAAGAGGACCAGCA
 TCGAGACGAATGTCCGCTTCGCCTTAGAGAAGAGTTTCTAGCGAACCAGAAGCCTACCTCAGAGGAGAT
 CCTGCTGATCGCAGAGCAGCTGCACATGGAGAAGAGTGATCCGCGTCTGGTCTGCAACCCGGCGCCAG
 AAGGAGAAACGCATCAACCTTTCAGTGCAGCCCCCATGCTGCCAGCCCCGGGAAAGCCGACCAGCTACA
 GCCCTCACCTGGTCACACCCCAAGGGGGCGCAGGGACCTACCATTGTCCCAAGCTTCTAGCAGTGTGAG
 CACAACAGTTACTACCTTATCCTCAGCTGTGGGACGCTCCATCCAGCCGGACAGCAGGAGGGGTGGG
 GGTGGGGGCGGAGCTGCGCCCCCTCAATTCCATCCCCTCTGTCACTCCCCACCCCGGCCACCACCA
 ACAGCACAAACCCGAGCCCTCAAGGCAGCCACTCGGCTATTGGCTGTGCGGGCTGAACCCAGCGCGGG
 CCCTGGCCTCTGGTGGAACCTGCCCTTACCAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223353 representing NM_011138
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQSLDSPSEHTDTERNGPDINHQNPNKASPFVSVPTGPSTKIKAEIDPSG
 DSAPAAPPPPPQAQPHLPQAQLMLTGSQLAGDIQQLQLQLVLVPGHHLQPPAQFLLPQAQQSQPGLLP
 TPNLFQLPQQTQGALLTSQPRAGLPTQAMTRPTLPDPHLSHPQPPKCLEPPSHPEEPSDLEELQFARTF
 KQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPILLEKWLNDAEETMSVDSLSLSP
 NQLSSPSLGFGLPGRRRKRRTSIETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVWFCNRRQ
 KEKRINPCSAAPMLPSPGKPTSYPHLVTPQGGAGTLPLSQASSLSTTVTTLSSAVGTLHPSRTAGGGG
 GGGGAAPLNSIPSVTPPPPATTNSTNPSQGSASHAIGLSGLNPSAGPGLWNPAPYQP

TRTRPLE - GFP Tag - V

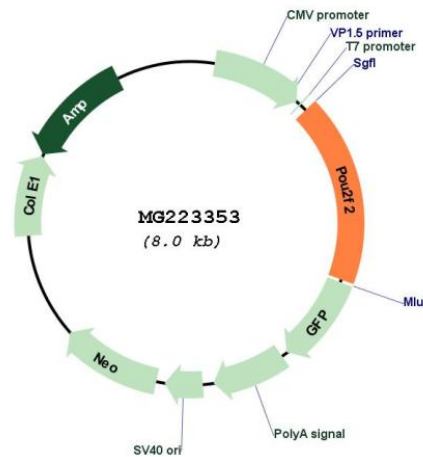
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011138

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.

RefSeq: [NM_011138.2](#), [NP_035268.2](#)

RefSeq Size: 3297 bp

RefSeq ORF: 1440 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]