

Product datasheet for **MR223353**

Pou2f2 (NM_011138) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou2f2 (NM_011138) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pou2f2
Synonyms:	Oct-2; Oct2a; Oct2b; Oct2c; Oct2d; Otf-2; Otf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223353 representing NM_011138
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTTCAATCCAGCATGGGGCTCCAGAAATAAGAATGTCTAAGCCCTGGAGGCCGAGAAGCAAAGTC
 TGGACTCCCCGTAGAGCACACAGACACCGAAAGAAATGGACCCGACATTAACCATCAGAACCCCCAGAA
 TAAAGCGTCCCCATTCTCTGTGTCCCAACTGGCCCCAGCACCAAGATCAAGGCTGAAGACCCCACTGGC
 GATTCAGCCCCAGCAGCACCCCCGCCCCAGCCGGCTCAGCCTCATCTGCCAGGCCCAACTCATGC
 TGACGGGCAGCCAGCTAGCTGGGACATACAGCAACTCCTCCAGCTCCAGCAGCTGGTGTGTCCCGG
 CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTGCCACAGGCACAGCAGAGTCAGCCAGGCCCTGCTACCA
 ACGCCAAATCTATTCCAGCTACCTCAACAAACCCAGGGAGCTCTCCTGACCTCCAGCCCCGGGCTGGGC
 TTCTTACACAGGCTATGACTCGCCCCACGCTGCCCGACCCACCTCTCACACCCGAGCCCCGAAATG
 CTTGGAGCCGCCCTCCACCCGGAGGAGCCAGCGATCTGGAGGAGCTGGAACAGTTTGTCTGCACCTTC
 AAGCAACGCCGCATCAAGCTGGGCTTCACACAGGGTATGTGGGCTGGCCATGGCAAGCTCTATGGCA
 ACGACTTCAGCCAAACGACCATTTCCCGCTTCGAGGCCCTCAACCTGAGCTTCAAGAATATGTGTAACCT
 CAAGCCCCCTCTGGAGAAGTGGCTCAACGACGCAGAGACTATGTCTGTGGATTCAAGCCTACCCAGCCCA
 AACCAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGGCTGCCGGGGCGGAGACGCAAGAAGAGGACCAGCA
 TCGAGACGAATGTCCGCTTCGCCTTAGAGAAGAGTTTCTAGCGAACCAGAAGCCTACCTCAGAGGAGAT
 CCTGCTGATCGCAGAGCAGCTGCACATGGAGAAGAGTATCCGCGTCTGGTCTGCAACCCGGCCAG
 AAGGAGAAACGCATCAACCTTTCAGTGGGCCCCCATGCTGCCAGCCGGGAAAGCCGACCAGCTACA
 GCCCTCACCTGGTCACACCCCAAGGGGGCGCAGGGACCTACCATTGTCCCAAGCTTCTAGCAGTGTGAG
 CACAACAGTTACTACCTTATCCTCAGCTGTGGGACGCTCCATCCAGCCGGACAGCAGGAGGGGTGGG
 GGTGGGGGCGGAGCTGCGCCCCCTCAATTCCATCCCCTCTGTCACTCCCCACCCCGGCCACCACCA
 ACAGCACAAACCCGAGCCCTCAAGGCAGCCACTCGGCTATTGGCTTGTGGGCTGAACCCAGCGCGGG
 CCCTGGCCTCTGGTGGAACCTGCCCTTACCAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223353 representing NM_011138
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQSLDSPSEHTDTERNGPDINHQPQNKASPFVSVPTGPSTKIKAEADPSG
 DSAPAAPPPPQPAQPHLPQAQLMLTGSQLAGDIQQLQLQLVLVPGHHLQPPAQFLLPQAQQSQPGLLP
 TPNLFQLPQQTQGALLTSQPRAGLPTQAMTRPTLPDPHLSHPQPPKCLEPPSHPEEPSDLEEELEQFARTF
 KQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPLLEKWLNDAETMSVDSSLPSP
 NQLSSPSLGFGLPGRRRKRTSIETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVWFCNRRQ
 KEKRINPCSAAPMLPSPGKPTSYPHLVTPQGGAGTLPQSASSLSTTVTTLSSAVGTLHPSRTAGGGG
 GGGGAAPLNSIPSVTPPPPATTNSTNPSQGSASHAIGLSGLNPSAGPGLWNPAPYQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9036_d09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

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

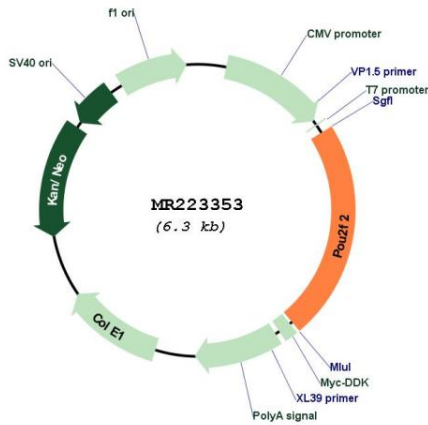
Locus ID: 18987

UniProt ID: [Q00196](#)
Cytogenetics: 7 13.73 cM

MW: 51.7 kDa

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 MR223353