

Product datasheet for **MR224842**

Pou2f2 (NM_001163555) Mouse Tagged ORF Clone

Product data:

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

>MR224842 representing NM_001163555
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTCAATCCAGCATGGGGCTCCAGAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAAGTC
 TGGACTCCCCGTAGAGCACACAGACACCGAAAGAAATGGACCCGACATTAACCATCAGAACCCCCAGAA
 TAAAGCGTCCCCATTCTCTGTGTCCCAACTGGCCCCAGCACCAAGGTGGCATTCTCTCTGGCCTCCAC
 TTAACATTCTGGGGTCCCGGACCCTGCCTCTCTCTCCCCAGATCAAGGCTGAAGACCCAGTGGCGATT
 CAGCCCCAGCAGACCCCGCCCCAGCCGGCTCAGCCTCATCTGCCCCAGGCCCAACTCATGCTGAC
 GGGCAGCCAGCTAGTGGGGACATACAGCAACTCCTCCAGCTCCAGCAGCTGGTGTCTGCCCGGCCAC
 CACCTCCAGCCACCTGCTCAGTTCCTGCTGCCACAGGCACAGCAGAGTCAAGCAGGCTGCTACCAACGC
 CAAATCTATTCCAGCTACCTCAACAAACCCAGGGAGCTCTCTGACCTCCAGCCCCGGGCTGGGCTTCC
 TACACAGCCCCGAAATGCTTGGAGCCGCCCTCCACCCGGAGGAGCCAGCGATCTGGAGGAGCTGGAA
 CAGTTTGTCTCGCACCTTCAAGCAACGCCCATCAAGCTGGGCTTACACAGGGTATGTGGGCCTGGCCA
 TGGGAAGCTCTATGGCAACGACTTCAGCCAAACGACCATTTCCCGCTTCGAGGCCCTCAACCTGAGCTT
 CAAGAACATGTGTAAGCTCAAGCCCCTCCTGGAGAAGTGGCTCAACGACGCAGAGACTATGTCTGTGGAT
 TCAAGCCTACCCAGCCAAACAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGGCTGCCGGGGCGGAGAC
 GCAAGAAGAGGACCAGCATCGAGACGAATGTCCGCTTCGCCTTAGAGAAGAGTTTCTAGCGAACAGAA
 GCCTACCTCAGAGGAGATCCTGCTGATCGCAGAGCAGTGCACATGGAGAAGGAAGTATCCGCGTCTGG
 TTCTGCAACCGGGCCAGAAGGAGAAACGCATCAACCTTGCAGTGGGGCCCCATGCTGCCAGCCCCG
 GAAAGCCGACCAGCTACAGCCCTCACCTGGTACACCCCCAAGGGGGCGCAGGGACCTTACATTGTCCCA
 AGCTTCTAGCAGTCTGAGCACAACAGTTACTACCTTATCCTCAGCTGTGGGGACGCTCCATCCAGCCGG
 ACAGCAGGAGGGGTGGGGTGGGGGCGGAGCTGCGCCCCCTCAATTCCATCCCTCTGTCACTCCCC
 CACCCCGGCCACCACCAACAGCACAAACCCGAGCCCTCAAGGCAGCCACTCGGCTATTGGCTTGTGGG
 CCTGAACCCAGCGGGCCCTGGCCTCTGGTGAACCTGCCCTTACCAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224842 representing NM_001163555
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQSLDSPSEHTDTERNGPDINHQNPNKASPFVSVPTGPSTKVGILSGLH
 LTFWGPCLSPQIKAEDPSGDSAPAAPPPQPAQPHLPQAQLMLTGSQLAGDIQQLLQLVLPVGH
 HLQPPAQFLLPQAQQSQPGLLPTPNLFQLPQQTQGALLTSQPRAGLPTQPPKCLEPPSHPEEPSDLEELE
 QFARTFKQRRIKLGFQGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLPLLEKWLNDIAETMSVD
 SSLPSPNQLSSPSLGFDFLPGRRRKRRTSIETNVRFALEKSLANQKPTSEEILLIAEQLHMEKEVIRVW
 FCNRRQKEKRINPCSAAPMLPSPGKPTSYPHLVTPQGGAGTLPQSASSLSTTVTTLSSAVGTLHPSR
 TAGGGGGGGAAPPLNSIPSVTPPPPATTNSTNPSPQGSLSAIGLSGLNPSAGPGLWNPAPYQP

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

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

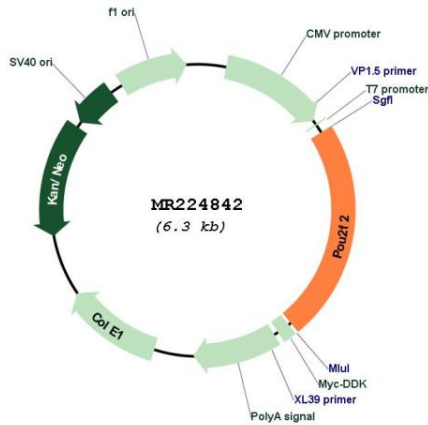
UniProt ID: [Q00196](#)

Cytogenetics: 7 13.73 cM

MW: 52.1 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 MR224842