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Product datasheet for MC216644

Pou2f2 (NM_001163555) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou2f2 (NM_001163555) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>NM_001163555.1
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTTCATTCCAGCATGGGGGCTCCAGAAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAAGTC
TGGACTCCCCGTCAGAGCACACAGACACCGAAAGAAATGGACCCGACATTAACCATCAGAACCCCCAGAA
TAAAGCGTCCCCATTCTCTGTGTCCCCAACTGGCCCCAGCACCAAGGTGGGCATTCTCTCTGGCCTCCAC
TTAACATTCTGGGGTCCCGGACCCTGCCTCTCTCCTCCCCAGATCAAGGCTGAAGACCCCAGTGGCGATT
CAGCCCCAGCAGCACCCCCGCCCCCCCAGCCGGCTCAGCCTCATCTGCCCCAGGCCCAACTCATGCTGAC
GGGCAGCCAGCTAGCTGGGGACATACAGCAACTCCTCCAGCTCCAGCAGCTGGTGCTTGTCCCCGGCCAC
CACCTCCAGCCACCTGCTCAGTTCCTGCTGCCACAGGCACAGCAGAGTCAGCCAGGCCTGCTACCAACGC
CAAATCTATTCCAGCTACCTCAACAAACCCAGGGAGCTCTCCTGACCTCCCAGCCCCGGGCTGGGCTTCC
TACACAGCCCCCGAAATGCTTGGAGCCGCCCTCCCACCCGGAGGAGCCCAGCGATCTGGAGGAGCTGGAA
CAGTTTGCTCGCACCTTCAAGCAACGCCGCATCAAGCTGGGCTTCACACAGGGTGATGTGGGCCTGGCCA
TGGGCAAGCTCTATGGCAACGACTTCAGCCAAACGACCATTTCCCGCTTCGAGGCCCTCAACCTGAGCTT
CAAGAACATGTGTAAACTCAAGCCCCTCCTGGAGAAGTGGCTCAACGACGCAGAGACTATGTCTGTGGAT
TCAAGCCTACCCAGCCCAAACCAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGGCTGCCGGGGCGGAGAC
GCAAGAAGAGGACCAGCATCGAGACGAATGTCCGCTTCGCCTTAGAGAAGAGTTTCCTAGCGAACCAGAA
GCCTACCTCAGAGGAGATCCTGCTGATCGCAGAGCAGCTGCACATGGAGAAGGAAGTGATCCGCGTCTGG
TTCTGCAACCGGCGCCAGAAGGAGAAACGCATCAACCCTTGCAGTGCGGCCCCCATGCTGCCCAGCCCGG
GAAAGCCGACCAGCTACAGCCCTCACCTGGTCACACCCCAAGGGGGCGCAGGGACCTTACCATTGTCCCA
AGCTTCTAGCAGTCTGAGCACAACAGTTACTACCTTATCCTCAGCTGTGGGGACGCTCCATCCCAGCCGG
ACAGCAGGAGGGGGTGGGGGTGGGGGCGGAGCTGCGCCCCCCCTCAATTCCATCCCCTCTGTCACTCCCC
CACCCCCGGCCACCACCAACAGCACAAACCCGAGCCCTCAAGGCAGCCACTCGGCTATTGGCTTGTCGGG
CCTGAACCCCAGCGCGGGCCCTGGCCTCTGGTGGAACCCTGCCCCTTACCAGCCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001163555

Insert Size: 1458 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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] Transcript Variant: This variant (3) has an additional segment in the coding region, as compared to variant 1. The resulting isoform (3) is longer and has the same N- and C-termini, as compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.