

Product datasheet for **MC208010**

E2f1 (NM_007891) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2f1 (NM_007891) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	E2f1
Synonyms:	E2F-1; mKIAA4009; Tg(Wnt1-cre)2Sor
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC208010 representing NM_007891
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTAGCCCCCGGGCGGCCAGCACGCGCCAGCGCTGGAGCCCTGCTCGGGCGGGCGCGTTGC
 GGCTGCTCGACTCCTCGCAGATCGTCATCATCTCCACCGCGCCGATGTGGCGCCCCGAGCTCCCCGC
 CGCGCCGCCACTGGCCCTCGCGATTCTGACGTGCTGCTCTTCGCCACGCCGAGCGCCCCGACCCGCG
 CCTAGTGACCCGCGCCGGCTCTCGGCCCGCCGGTGAACGGAGGCTGGATCTGGAGACTGACCATC
 AGTACCTCGTGGTAGCAGTGGGCCATTCCGGGGCAGAGGCCGCCACCCAGGAAAGGTGTGAAATCTCC
 GGGGAGAAGTACGCTATGAAACCTCACTAAATCTGACCACAAACGCTTCTTGAGCTGCTGAGCCGC
 TCAGCTGACGGTGTCTGACCTGAACTGGGCAGCTGAGGTGCTGAAGGTGCAGAAACGGCGCATCTATG
 ACATACCAATGTCTGGAGGGCATCCAGCTCATTGCCAAGAAGTCCAAGAATCATATCCAGTGGCTAGG
 CAGCCACACCATGGTGGGGATTGGTAAGCGGCTTGAAGGCTGACCCAGGACCTGCAGCAACTGCAGGAG
 AGTGAGCAGCAGCTGGATCACCTGATGCACATCTGTACCACACAGCTGCAACTGCTTTCGGAGGACTCCG
 ACACCCAGCGCCTGGCCTATGTGACCTGCCAGGACCTTCGCAGCATTGCAGACCTGCAGAACAGATGGT
 CATAGTGATCAAGGCCCTCCTGAGACCAACTACAAGCTGTGGATTCTTCAGAGACATTCAGATCTCC
 CTTAAGAGCAAACAAGGCCCATTTGATGTTTTCTGTGCCCGGAGGAGAGTGCAGACGGGATTAGCCCTG
 GGAAGACCTCATGCCAGGAGACATCCTCTGGGGAGGACCGGACTGCAGACTCTGGCCAGCAGGGCTCC
 ACCATCACCTCCCTCCACATCCCAGCCTTGGATCCCAGTCAATCCCTGTTGGGCTGGAGCAAGAAGCA
 GTATTGCCACGGATGGGCCACCTGAGGGTCCCTATGGAAGAGGACCAACTGTCAACTGGTGGCTGCTG
 ACTCACTCTGGAGCATGTTAAAGAAGACTTCTCTGGGCTCCTCCCTGGGAGTTCATCAGCCTCTCCCC
 ACCCCACGAGGCCCTTGACTATCACTTTGGTCTCGAGGAGGTGAGGGCATTAGAGATCTCTTTGACTGT
 GACTTTGGGGACCTGACCCCTCTGGATTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1688_c02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_007891

Insert Size: 1293 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: [BC052160](#), [AAH52160](#)

RefSeq Size: 2739 bp

RefSeq ORF: 1293 bp

Locus ID: 13555

UniProt ID: [Q61501](#)

Cytogenetics: 2 76.79 cM

Gene Summary: Transcription activator that binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3' found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F1 binds preferentially RB1 in a cell-cycle dependent manner. It can mediate both cell proliferation and TP53/p53-dependent apoptosis. Blocks adipocyte differentiation by binding to specific promoters repressing CEBPA binding to its target gene promoters (PubMed:11672531, PubMed:20176812). Positively regulates transcription of RRP1B (By similarity).
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a). 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.