

Product datasheet for **MC227099**

E2f3 (NM_001289920) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: E2f3 (NM_001289920) Mouse Untagged Clone
Tag: Tag Free
Symbol: E2f3
Synonyms: E2f3a; E2F3b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227099 representing NM_001289920
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCTTACAGCAGCAGGCAAAGCGAAGGCTGGAAGCTGGGCGAGAGTGGCCATCAGTACCTCTCAGATG
 GTCTAAAGACCCCAAGGGCAAAGGAAGAGCTGCACTACGGAGTCCCGATAGTCCAAAAAAAAAACGCG
 GTATGATACGTCCCTCGGTCTGCTCACCAAGAAGTTCATTCAGCTCCTGAGCCAGTCTCCTGATGGGGTC
 CTGGATCTGAACAAGGCAGCAGAGGTGCTCAAGGTGCAGAAGAGGAGGATTTACGACATCACCAACGTGC
 TGGAAGGCATCCACCTCATTAAAGAAGAAGTCTAAGAACAACGTCCAGTGGATGGGCTGCAGTCTGTCTGA
 GGATGGGGGCATGCTGGCCAGTGTCAAGGCCTGTCCAAGAAGTGACTGAGCTCAGTCAGGAAGAGAAG
 AAATTAGATGAGCTGATCCAAAGCTGTACCCTGGACCTCAAAGTGTAAACCGAGGATTACAGAGAATCAA
 GGTTAGCTTATGTTACATATCAAGATATTCGAAAAATTAGTGGCCTTAAAGACCAAAGTGTATAGTTGT
 GAAAGCCCCTCCAGAAACGAGACTTGAAGTGCCTGACTCAATAGAGAGCCTACAAATCCATTTGGCAAGT
 ACCAAGGCCACAATGGGAATATCCCAAGCCACTTCCAAGACTTGGCTTCTAACAACTCAGGACATAG
 TGAAGTCTCGTTTCTACAGCAAACCTCTCTCTGCTGGCCTCCAGCCAACTTTTACAGCAGACTGAG
 GACCAAATCCCGTCCAACCTTGAAGGACCTTTTGTGAAGTACTGCTCCCTGCTCCAAGAGGACTACC
 TGCTGAGCCTGGGGAGGAAGAGGGCATCAGTGACCTCTTCGATGCCTATGATTTGGAAAAGCTGCCTCT
 GGTGGAGGACTTCATGTGTAGT**TGA**

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001289920



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Insert Size:	1005 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001289920.1</u> , <u>NP_001276849.1</u>
RefSeq Size:	4588 bp
RefSeq ORF:	1005 bp
Locus ID:	13557
Cytogenetics:	13 A3.2
Gene Summary:	<p>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. E2F3 binds specifically to RB1 in a cell-cycle dependent manner. Inhibits adipogenesis, probably through the repression of CEBPA binding to its target gene promoters (PubMed:20176812).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2, also known as E2f3b) differs in the 5' UTR and the 5' coding region and uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. It encodes isoform E2f3b, which is shorter and has a distinct N-terminus, compared to isoform E2f3a.</p>