

## Product datasheet for MR229641

### E2f1 (NM\_001291105) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	E2f1 (NM_001291105) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2f1
Synonyms:	E2F-1; mKIAA4009; Tg(Wnt1-cre)2Sor
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229641 representing NM_001291105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGGAAGTGCTTCACGCAGCTGCAGATGGTGGGGCTGATATTTGAACTGATGTCTGCTGGCTTGCTGC  
AGAACCTATGGCTAGGGAGTGCACAGTTGCTTGTGGAGGTGAAACGGAGGCTGGATCTGGAGACTGA  
CCATCAGTACCTCGCTGGTAGCAGTGGGCCATTCGGGGCAGAGGCCGCCACCCAGGAAAGGTGTGAAA  
TCTCCGGGGGAGAAGTCACGCTATGAAACCTCACTAAATCTGACCACAAACGCTTCTTGGAGCTGCTGA  
GCCGCTCAGCTGACGGTGTCTGTTGACCTGAACTGGGCAGCTGAGGTGCTGAAGGTGCAGAAACGGCGCAT  
CTATGACATCACCAATGTCTGGAGGGCATCCAGCTCATTGCCAAGAAGTCCAAGAATCATATCCAGTGG  
CTAGGCAGCCACACCATGGTGGGGATTGGTAAGCGGCTTGAAGGCTGACCCAGGACCTGCAGCAACTGC  
AGGAGAGTGAGCAGCAGCTGGATCACCTGATGCACATCTGTACCACACAGCTGCAACTGCTTTCGGAGGA  
CTCCGACACCCAGCGCTGGCCTATGTGACCTGCCAGGACCTTCGCAGCATTGCAGACCCCTGCAGAACAG  
ATGGTCATAGTGATCAAGGCCCTCCTGAGACCAACTACAAGCTGTGGATTCTTCAGAGACATTTGAGA  
TCTCCCTTAAGAGCAAACAAGGCCCATTTGATGTTTTCTGTGCCGGAGGAGAGTGCAGACGGGATTAG  
CCCTGGGAAGACCTCATGCCAGGAGACATCCTCTGGGGAGGACCGGACTGCAGACTCTGGCCAGCAGGG  
CCTCCACCATCACCTCCCTCCACATCCCGAGCCTTGGATCCCAGTCAATCCCTGTTGGGCTGGAGCAAG  
AAGCAGTATTGCCACGGATGGGCCACCTGAGGGTCCCTATGGAAGAGGACCAACTGTCAACTGCTGGC  
TGCTGACTCACTCTGGAGCATGTTAAAGAAGACTTCTCTGGGCTCCTCCCTGGGGAGTTCATCAGCCTC  
TCCCCACCCACGAGGCCCTTGACTATCACTTTGGTCTCGAGGAGGGTGAGGGCATTAGAGATCTCTTTG  
ACTGTGACTTTGGGGACCTGACCCCTCTGGATTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229641 representing NM\_001291105  
 Red=Cloning site Green=Tags(s)

MGKCF<sup>Q</sup>LQMVGLIFELMSAGLLQNLWLGSAHSCLLEVKRRLDLETDHQYLAGSSGPFGRGRHPGKGVK  
 SPGEKSRYETSLNLTTRFLELLSRSADGVVDLNWAAEVLKVQKRIYDITNVLEGIQLIAKKS<sup>N</sup>HIQW  
 LGSHTMVGIGKRLEGLTQDLQQLQESEQLDHLMHICTTQQLLSESDTQRLAYVTCQDLRSIADPAEQ  
 MVIVIKAPPETQLQAVDSSETFQISLKSQGPIDVFLCPEESADGISPGKTS<sup>C</sup>QETSSGEDRTADSGPAG  
 PPPSPSTSPALDPSQSLGLLEQEA<sup>V</sup>LPRMGLRVPMEEDQLSPLVAADSLLEHV<sup>K</sup>EDFSGLLPGEFISL  
 SPPHEALDYHFGLEEGEGIRDLFDCDFGDLTPLDF

TRTRPLE<sup>Q</sup>KLISEEDLAANDILDYKDDDDK<sup>V</sup>

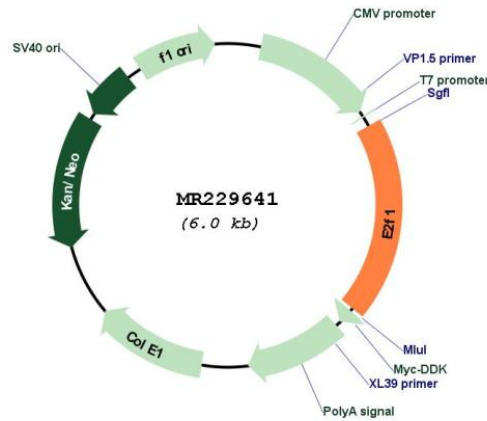
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001291105

<b>ORF Size:</b>	1155 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001291105.1</a> , <a href="#">NP_001278034.1</a>
<b>RefSeq Size:</b>	2695 bp
<b>RefSeq ORF:</b>	1158 bp
<b>Locus ID:</b>	13555
<b>Cytogenetics:</b>	2 76.79 cM
<b>MW:</b>	42.8 kDa
<b>Gene Summary:</b>	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]