

## Product datasheet for **MC222527**

### **E2f7 (NM\_178609) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	E2f7 (NM_178609) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	E2f7
Synonyms:	A630014C11Rik; D10Ertd739e; E2F-7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC222527 representing NM\_178609  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTGAATTGTTTAACTAAAAGACTTGATCAGCCCCAGGCAGACCAGACTAGATTTTGCCATTG  
 AAGATGCAGAGAACGCACAAAAGGAAAATATTTTGTGACCGATCAAGGATGACCCCAAAGACACCGAT  
 GAAGAACGAGCCGATCGACCTGTCAAAGCAAAGAATCTTACCCACAGACGAAACCCATTACTCCAGTA  
 AAGCCGGTCGACAGGCAGCCGAGGTGGAGCCCTGGACACCCACAGCAACCTGAAGATGCTCATCAGCG  
 CCGCCAGCCAGACATAAGAGACCGGGAAGAAAAGGAGCTGTTAGACCCATTGAGAATAAGGAGGA  
 TGCGTTCGTGAATCCCTGCAGCTTGACGTGGCCGGTACGCGGCTGTGGATGAGTATGAGAAGCAAAGG  
 CCAAGCAGGAAACAGAAGAGCTTGGGGTGTGTGCCAGAAGTTCTAGCTCGCTATCCGAGCTACCCCT  
 TGTCAACGGAGAAAACCCATCTCCCTAGATGAGGTGCGCGTCAGTCTCGGCGTGGAAAGGAGACGCAT  
 CTATGACATCGTAAACGTGCTGGAGTCGTCATCTGGTACGCCGGTGGCTAAGAAATCAGTATGGTTGG  
 CACGGTGGCACAGCCTCCCAAACCCCTGAGGACCCACAGAGACTGGGAGAGGAACAGAAATACGAGG  
 AGCAGATGGCCTGCCTCCAGCAGAAGGAGCTGGACCTGATGGGGTATAGTTTCGGAGAACCGAGGAAAGA  
 CGGGTCTCCGGACCCCGAGATCCACACCTACTTGATTTTCCGAAGCCGACTACCCCTCTTCATCTGCA  
 AACAGTCGAAAAGATAAACTTTAAGAATTATGAGCCAGAAGTTTGTGATGCTGTTCCCTCGTCTCCAAAA  
 CCAAGATTGTCACCCTGGATGTAGCTGCCAAAATCCTCATAGAAGAAAGCAAGATACCCCGACACAG  
 CAAATTCAAAACAAGGTACGGAGGCTCTATGACATAGCCAATGTTCTGACCAGCCTGGCTCTGATAAAG  
 AAAGTTCACGTAACAGAAGAGCGAGGCCGAAACAGCCTTCAAGTGGATCGGCGCTGTGGACTTCAGCT  
 CCATTGATGAAGAACTGTTGGAGCTCTCTGCATCCATCTTACCAGAATTGAAGAAGGACATACGGCCA  
 GATCCGAGTGTGTGCAAAGAGAGGCTGGTGGGTACGGTTCCTTTAACACGGTTCACACGCTCGAGAAG  
 ATACAGAGAAAAGTGAGCTCAGAACCAGCAGCCACAGGGAGAAAGACAAGGGTACGCCTATCCCTGG  
 AAATTGGAAGTCTGGCGCCATCTACAGACAGAAAGTAGAAGATAATTTCGAGGAGGAAGCCTTTGTGAG  
 TAACACAGCAGTGCCTCCAGCAAGCATCTTGGACCCCGCCCTCTCCATGGACTCTGAATACTGTGCAAG  
 CCTTAGCCAGCCAGTATTTTCTGTTGCTCAAACAGATTTGCCGGCTTCTCTGCGCAGAATGGTCCAA  
 GCGGACAAGTAGGTGTCCTTCTGAGCCTCCGACACAGAGAACTTAAAGCCAGCTCTGCTCGC  
 CGGCCAGCCCTGGTCTACGTGCCCTCCACCAACTCTTCATGCTGTACGGGAGTGTGCAGGAGGGACTG  
 TCCCCAGAGTCAAGGTACAGGAAGATGGTGGTGGCTCCGATGTCCAGCTGACCTGTGAGTACACCCCT  
 CTGCTCAGAAGCCCTGTGTGAGGAGAGAGATCCTCAGGAGGAGGAGGACGAGCCCGCCATGAAAAGACA  
 AAGTCAGGAATTTGAAGACAGCCCTTATCCCTAGTTATGCCAAAGAAACCCCTCAAGTTCACAGACCTT  
 GCCTGTCTGTGACCATGGGAAACGGGAGCTCTCCACCCCTGGAAGACGCCTGTGTTAAGGGTACAGTCC  
 CTGCTGCAGAGAAGTTACAGGAAAGGCTGCCCAAACCTGCTATGTTGCTTCTGAGTGTGAAACCCGGC  
 AAGAAATCCAGACACTGAAAAGCCTTCCAACGAAAACGAGATCACCAAAGACCCCTCGCTGATGCAGTAC  
 CTGTATGTGAGTCTCCCGCAGGGTTAAATGGTTTTAACATGGTTTTACCAGGCACCCAGACCCCCACA  
 CCGTGGCACCCCTCCCGGCTCAGCTGCCATCCTCGGCGTACCCTGCATGTTCTGCAATCCCGAGCCT  
 GGGCCCTTTCCAGTCTCTATTTCCCGCAATACCCGGGCCATTTCTCAGCCCCCGGCACTCACCCA  
 AACCCCGGACCCATGAACTTCGGCTTGTCCACCCCTGGCATCTGCTTCTCACCTTCTCATAGCCCGGAG  
 CCATGGTCAATCAAAGCCATCCACCCTCCCTGTACAGACCCTCAGCTTCGCTGTGAGCCCTACTCAA  
 CCTGAACCCCGTGTGACAGGCTCACACGGCGTATCCACCCGAGTCCCGCTGTACGTGAGACATCCG  
 GTATCGATGGTAAAGGCAGAGCAGTCCCCTGCACCGGCGACTCCCAAGAGCATCAAACGGAGACATCGGG  
 AGACGTTCTTCAAGACTCCCGGACGCTCGGCGATCCGGTCTTTAGAAGAAAAGAAAGGAACCAATCAAG  
 AAACACTAGCTCAGCCAGAGGAGACTAGAATCTCTAGCAGCGGCCTGACT**AG**

**ACGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_178609

<b>Insert Size:</b>	2715 bp
<b>OTI Disclaimer:</b>	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).
<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_178609.4</a> , <a href="#">NP_848724.2</a>
<b>RefSeq Size:</b>	5476 bp
<b>RefSeq ORF:</b>	2715 bp
<b>Locus ID:</b>	52679
<b>UniProt ID:</b>	<a href="#">Q6S7F2</a>
<b>Cytogenetics:</b>	10 57.74 cM
<b>Gene Summary:</b>	Atypical E2F transcription factor that participates in various processes such as angiogenesis, polyploidization of specialized cells and DNA damage response. Mainly acts as a transcription repressor that binds DNA independently of DP proteins and specifically recognizes the E2 recognition site 5'-TTTC[CG]CGC-3'. Directly represses transcription of classical E2F transcription factors such as E2F1. Acts as a regulator of S-phase by recognizing and binding the E2-related site 5'-TTCCCGCC-3' and mediating repression of G1/S-regulated genes. Plays a key role in polyploidization of cells in placenta and liver by regulating the endocycle, probably by repressing genes promoting cytokinesis and antagonizing action of classical E2F proteins (E2F1, E2F2 and/or E2F3). Required for placental development by promoting polyploidization of trophoblast giant cells. Also involved in DNA damage response: up-regulated by p53/TP53 following genotoxic stress and acts as a downstream effector of p53/TP53-dependent repression by mediating repression of indirect p53/TP53 target genes involved in DNA replication. Acts as a promoter of sprouting angiogenesis, possibly by acting as a transcription activator: associates with HIF1A, recognizes and binds the VEGFA promoter, which is different from canonical E2 recognition site, and activates expression of the VEGFA gene. Acts as a negative regulator of keratinocyte differentiation.[UniProtKB/Swiss-Prot Function]