

Product datasheet for **MC222175**

E2f8 (NM_001013368) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | E2f8 (NM_001013368) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | E2f8 |
| Synonyms: | 4432406C08Rik; AA410048 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC222175 representing NM_001013368
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAACCAAAAGGAAAACCTCTTTTCTGAGCCACATAAAAGGGGACTGATGAAAAGCCCCCTGCATC
 CGTCCTCGAAGGCCAACATGGTGTGGCTGAGATCCAGCCTGACTTGGGCCCTCTAACACACCAACCAA
 GCCCAAGGAAGTCTCCAAGGAGAGCCATGGACCCACAGCAACCTGAAAATGCTCATCAGCGCCGTG
 AGCCCCGAGATCCGAAGTCGAGATCAGAAAAGGGGCTGTCTGACAACCGAAGTGCATTACCTGAAGCTA
 GAGACTGTTTGCACGAACACTTATCAGGAGACGAATTTGAGAAATCCCAGCCGAGTCGGAAGGAGAAGAG
 CTTGGGGTTGCTATGCCACAATTCCTAGCGCGGTACCCCAAGTACCCCAACCCTGCTGTGAATAACGAC
 ATCTGCCTGGACGAGGTGGCCGAGGAGCTCAATGTTGAACGTGGCGGATTTATGACATTGTGAATGTCC
 TAGAGAGCCTGCACATGGTGAGCCGCTTGCCAAAACAGGTACACTTGGCATGGCCGGCACAACCTCAC
 CAAAACCTCGGGACGCTGAAGAGTGTGGGGAAGAGAACAAGTACGCTGAGCAGATCATGATGATCAAA
 AGGAAAGAATATGAGCAAGAGTTTGATTTTATCAAGAGCTGTGGCATAGAGGACCACGTGATCAAGTCAC
 AACTGGCCAGAATGGGCATTGAGACATGTGCTTCGTAGAACTCCCTGGAGTAGAATTCGGGCAGCTTC
 TGTAACAGCCGCAAGACAAGTCTTACGCGTGATGAGCCAGAAGTTTGTGATGCTGTTCTTGGTGTGCG
 ACGCCTCAGATAGTGAGCCTGGAATTTGCTGCCAAGATTTAATTGGGGAAGACCACGTGGAAGATCTGG
 ATAAAAGCAAGTATAAAACAAAATTAGGAGGCTGTATGACATTGCTAATGTCCTGAGTAGCTTGGATCT
 TATCAAGAAAGTCCATGTTACAGAAGAAAGAGGTGCAAAACAGCTTTTAAATGGACGGGCCAGAAATC
 AGCCCAACAACAGTGGTCCAGCCCCATCATGCCTCTTCTGCCTCCTTAGAGGCTGAGCAGTCTGC
 AAGAACTGTGCCAAAACCTTCTCTACCGGGGGAACCCAGCTTCACTCGACACCCGTCCTCAT
 CAAGTTGGTAAAGAGCATAGAAAATGATCGGAGGAAGATCAGTTCGCTCCAGCAGCCCTGTCAAGAGC
 AACAAAGCTGAGAGTTCTCAAAATTCACACCCGTCGCAAAACAAAATGGCTCAGCTCGCCGCTATTTGCA
 AGATGCAGTTGGAAGAGCAGTCAAGTGAACCCAGGAAGAAAGTAAAAGTAAACCTAGCAAGATCTGGGCA
 CTACAAACCACTGGCTCCCCTGGACCCTACAGTGAACACTGAGCTAGAACTGCTTACACCGTCCCTTATC
 CAGCCCCGGGCGTGGTCCCCTGATCCCTAGCCATTGTCTGACAGTGCCTGTGATCTACCTCAGG
 CCCCTTCGGGCCATCCTATGCCATCTACTTACAACCTGCCAAGCCAAATGTTGACACCACCCCTGG
 CCTGAGCCCAACCGTCTGCCACCCAGCCCTAATGCTACTGGATCCAAGACCCTACAGACGCCCT
 GCTGAGAAGACGGCCACAGACGCCGCCACAACCGAAGCTTGACGCCAGCACCAGAAAGGATGGTGTCTA
 AGCATCGAAGCAAGGAGACGACCGGAGATCGGGGTACAAAGAGGATGATACCGCGGAGGACAGTGGTCC
 CAGTTCTGTAAAGAAACCTAAAGAGGACCTGAAAGCGCTTGAGAAGCTCCCCACCCACGCCCTGTTT
 CCATCAGGATACCTAATCCCTCTTACCCAGTGTCTATCCCTAGGGCCAGACTCTGTGTTGTCTAACACTG
 AAAACTCAGGTACACCCTCTCCAACACCCGGATCTATGGCTCCCCATTGCAGGTGTGATCCCAGTGGC
 ATCATCGAACTCACTGTGTGAATTTCCCCATTCCATGTGACACCTCTGAAACTTATGGTCTCCCCA
 ACATCTATGGCGCCGTACCTGTTGGGAACAGCCAGCCCTCACTCCGGCCACCCTGCTCCCGCCAGA
 ACCAAGCTCGGCTATCGTAACTTTACCCTGCAGCACTGGGACTCATCTCCCGGGCGTGCAGATGTC
 TGCCAGCCCGGGCTGGAGCTGGACAGTCCCAGTATCCCACGTGTAGAAGCAGATAACTTGAGCTCT
 CGGCAAAGGAGGGCCACCAACCATGACTCGCCAGTCTGGGCCAGAGCCAACTAAACGGACAACCGTCCG
 CGGGGACAGGGGACAGCAGCCTGTTCTGTGACACCCAAAGGCTCCAGTTGGTGGCTGAAAATTTCTT
 CCGTACTCCGGTGGACCAACTAAGCCTACCAGCTCACCTACACAGATTTGATGGTGTAAACAAACC
 TCCTTCGGAACCTCTTTGTCCACAGCGCAAACCTGGAAGTCTCAACTGAGGATATCCACTGAAGCGGAC
 CG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3798_g03.zip

Restriction Sites: SgfI-RsrII

ACCN: NM_001013368

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| Insert Size: | 2592 bp |
| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. More info</p> |
| 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: | NM_001013368.5 , NP_001013386.2 |
| RefSeq Size: | 3705 bp |
| RefSeq ORF: | 2583 bp |
| Locus ID: | 108961 |
| UniProt ID: | Q58FA4 |
| Cytogenetics: | 7 B4 |

Gene Summary:

Atypical E2F transcription factor that participates in various processes such as angiogenesis and polyploidization of specialized cells. 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: component of a feedback loop in S phase by repressing the expression of E2F1, thereby preventing p53/TP53-dependent apoptosis. 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. 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.[UniProtKB/Swiss-Prot Function]