

Product datasheet for **MR204971**

E2f5 (NM_007892) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: E2f5 (NM_007892) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: E2f5
Synonyms: AU024671; E2F-5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204971 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGCGGGAGCCACGAGCTCTGCTCAGCCACGCCGAGGCCAGGCTCAGCCGCCCGCATG
 GGGCGCCATCCTCGCAGCCGTCGCGGGCGCTCGCGGGGGCAGCAGCCGGCAGAGAAGAGCCTGGGCTT
 GCTTACCACCAAATTCGTGTCGTTGCTGCAGGAGGCGCAGGACGGCGTCTGGATCTCAAAGCGGCTGCA
 GATACCTTGGCTGTGAGGCAAAAGCGAAGAATTTATGATATCACCAATGTCTTAGAGGGAATTGATCTAA
 TTGAAAAAATCAAAGAACAGTATCCAGTGAAGGGTGTAGGTGCTGGCTGTAATACTAAAGAAGTTAT
 CGATAGATTAAGGTGCTTAAAGCTGAAATTGAAGATCTCGAATTGAAGGAAAGAGAAGTACCAGCAG
 AAGTTGTGGCTACAGCAAAGCATCAAAAATGTGATGGAAGACTCCATTAATAACAGATTTTCTTATGTAA
 CTCACGAAGACATCTGCAATTGCTTTCATGGTGATACACTGTTGGCCATTCAGGCACCTTCTGGTACACA
 GCTGGAAGTACCTATCCAGAAATGGGACAGAATGGACAAAAGAAATACCAGATAAATCTGAAGAGTCAC
 TCAGGGCCTATCCATGTGCTACTTATAAATAAAGAGTCCAGTTCATCTAAGCCAGTGGTTTTCTGTTC
 CCCACCTGATGACCTCACACAGCCTTCTCCAGTCCCACTCAGTGACTCCACAGAAATCCACCAT
 GGCTGCTCAAAACCTGCCTGAGCAGCATGTTCCGAAAGAAGCCAGACTTCCAGCAGACACCAGCTGCA
 GAAGTATCTTCAGGATCTATTAGTGGAGACATCATTGATGAACTGATGTCTTCTGATGTGTTTCTCTTT
 TACGGCTTCTCCTACCCAGCAGATGACTACAACCTTAATTTAGATGATAATGAAGGAGTTTGTGATCT
 GTTTGATGTTTCAGATACTAAATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204971 protein sequence
Red=Cloning site Green=Tags(s)

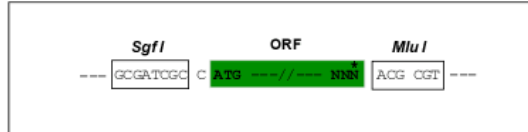
MAAAEPTSSAQPTPQAQAQPPPHGAPSSQPSAALAGGSSRHEKSLGLLTTKFVSLQLQEAQDGVLDLKAAA
 DTLAVRQKRRIYDITNVLEGIDLIEKSKNSIQWKGVGAGCNTKEVIDRLRCLKAEIEDLELKERELDQQ
 KLWLQSQSIKNVMEDESINNRFSYVTHEIDICNCFHGDLLAIQAPSGTQLEVPPEMGOQNGQKKYQINLKSH
 SGPIHVLLINKESSSSKPVVFPVPPDDLTQPSSQSSTSVTPQKSTMAAQNLPQHVSESRQTFQQTAA
 EVSSGSIISGDIIDELMSSDVFPLLRLSPTPADDYFNLDNEGVCDFDVQILNY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_007892

ORF Size: 1008 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_007892.2](#), [NP_031918.2](#)

RefSeq Size: 1763 bp

RefSeq ORF: 1008 bp

Locus ID: 13559

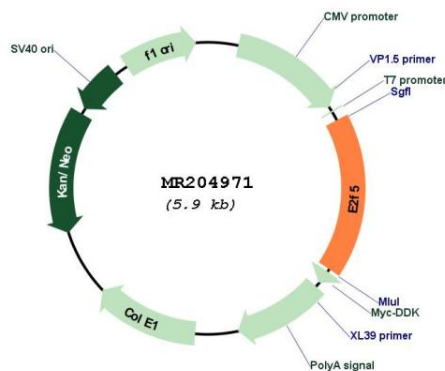
UniProt ID: [Q61502](#)

Cytogenetics: 3 A1

MW: 36.6 kDa

Gene Summary: Transcriptional activator that binds to E2F sites, these sites are present in the promoter of many genes whose products are involved in cell proliferation. May mediate growth factor-initiated signal transduction. It is likely involved in the early responses of resting cells to growth factor stimulation. Specifically required for multiciliate cell differentiation: together with MCIDAS and E2F5, binds and activate genes required for centriole biogenesis. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204971