OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR202901

E2f6 (BC019166) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2f6 (BC019166) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2f6
Synonyms:	EMA, E2F6b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR202901 representing BC019166 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCCATCAAAAATAAGGATTAATCTAGAAGAAAATGTACAGTATGTGTCCATGAGAAAAGCTCTGAAAG TGAAGAGGCCCCGGTTTGATGTGTCACTGGTATACTTAACTCGGAAGTTTATGGATCTCGTCAGATCTGC CCCTGGGGGCATTCTTGACTTAAACAAAGTTGCCACAAAACTGGGTGTTCGGAAGAGGCGAGTGTATGAC ATCACCAATGTCTTGGATGGCATCGAACTGGTGGAAAAGAAATCTAAGAACCACATTCGGTGGATAGGAT CTGACCTGAACAACTTTGGGGCCGCACCCCAGCAGAAGAAGCTGCAGGCAGAGCTCTCCGACCTGTCGGC CATGGAAGACGCCTTGGACGAGTTGATTAAAGATTGTGCTCAGCAACTGTTGGAGTTAACAGATGACAAG GAAAATGAAAGACTAGCGTATGTAACCTATCAGGATATTCACGGCATTCAAGCTTTCCATGAACAGATTG TCATTGCAGTGAAGGCTCCAGAGGAAACCAGACTGGATGTTCCAGCTCCCAGAGAAGATTCTATCACAGT ACATATTAGGAGCACCAAAGGACCCATTGATGTATATTTGTGTGAAGTAGAACAGAACCATTCAAATGGT AAAACCAATGATGGAATAGGAGCCTCTCCATCTAAAAGCAGCCATCCACAATGCCCAGAGAAAGAAGACG AGCCTCCTCAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

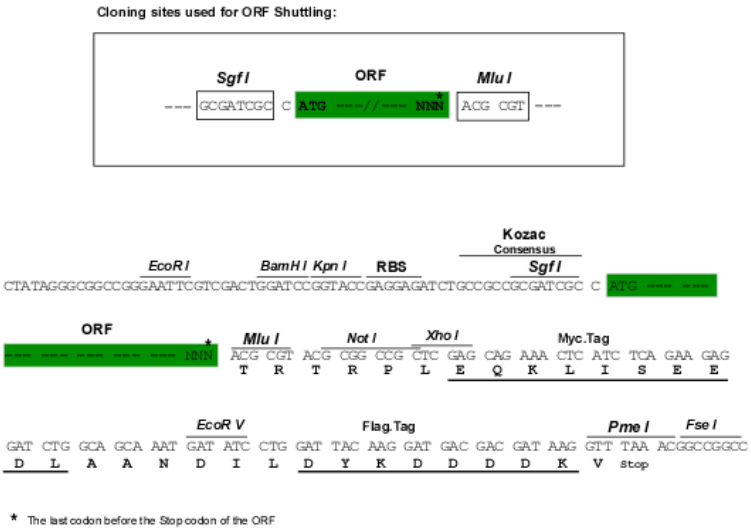
>MR202901 representing BC019166
Red=Cloning site Green=Tags(s)

MPSKIRINLEENVQYVSMRKALKVKRPRFDVSLVYLTRKFMDLVRSAPGGILDLNKVATKLGVRKRRVYD
ITNVLDGIELVEKKSKNHIRWIGSDLNNFGAAPQQKKLQAELSDLSAMEDALDELIKDCAQQLLELTDDK
ENERLAYVTYQDIHGIQAFHEQIVIAVKAPEETRLDVPAPREDSITVHIRSTKGPIDVYLCEVEQNHSNG
KTNDGIGASPSKSSHPQCPEKEDEPPQ

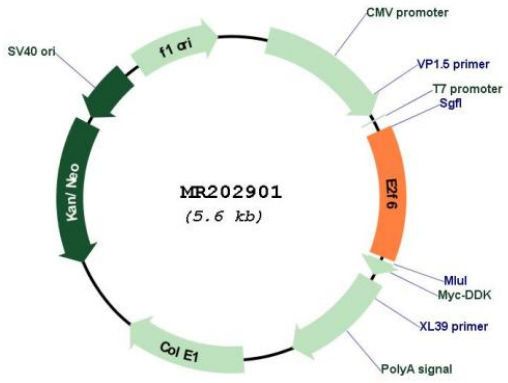
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC019166

ORF Size: 711 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:	BC019166.1
RefSeq Size:	2506 bp
RefSeq ORF:	713 bp
Locus ID:	50496
Cytogenetics:	12 8.04 cM
MW:	91.9 kDa
Gene Summary:	Inhibitor of E2F-dependent transcription. Binds DNA cooperatively with DP proteins through the E2 recognition site, 5'-TTTC[CG]CGC-3'. Has a preference for the 5'-TTTCCCGC-3' E2F recognition site. E2F6 lacks the transcriptional activation and pocket protein binding domains. Appears to regulate a subset of E2F-dependent genes whose products are required for entry into the cell cycle but not for normal cell cycle progression. May silence expression via the recruitment of a chromatin remodeling complex containing histone H3-K9 methyltransferase activity. Overexpression delays the exit of cells from the S-phase (By similarity). [UniProtKB/Swiss-Prot Function]