

Product datasheet for RC208247

E2F1 (NM_005225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids	
Product Name:	E2F1 (NM_005225) Human Tagged ORF Clone	
Tag:	Myc-DDK	
Symbol:	E2F1	
Synonyms:	E2F-1; RBAP1; RBBP3; RBP3	
Mammalian Cell Selection:	Neomycin	
Vector:	pCMV6-Entry (PS100001)	
E. coli Selection:	Kanamycin (25 ug/mL)	

OriGene Technologies, Inc.

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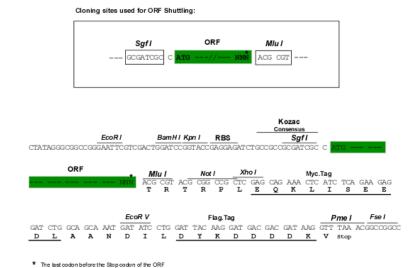


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	E2F1 (NM_005225) Human Tagged ORF Clone – RC208247	
ORF Nucleotide Sequence:	<pre>>RC208247 representing NM_005225 Red=Cloning site Blue=ORF Green=Tags(s)</pre>	
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C	
	ATGGCCTTGGCCGGGGCCCCTGCGGGCGGCCATGGCGCCGGCGGCGGAGGCCTGCTGGGGCCGGCGGCG CGCTGCGGCTGCTCGACTCCTCGCAGATCGTCATCATCTCCGCCGCGCAGGACGCCAGCGCCCGCC	
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA	
Protein Sequence:	<pre>>RC208247 representing NM_005225 Red=Cloning site Green=Tags(s)</pre>	
	MALAGAPAGGPCAPALEALLGAGALRLLDSSQIVIISAAQDASAPPAPTGPAAPAAGPCDPDLLLFATPQ APRPTPSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGRHPGKGVKSPGEKSRYETSLNLTTKRFL ELLSHSADGVVDLNWAAEVLKVQKRRIYDITNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDL RQLQESEQQLDHLMNICTTQLRLLSEDTDSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSE NFQISLKSKQGPIDVFLCPEETVGGISPGKTPSQEVTSEEENRATDSATIVSPPPSSPPSSLTTDPSQSL LSLEQEPLLSRMGSLRAPVDEDRLSPLVAADSLLEHVREDFSGLLPEEFISLSPPHEALDYHFGLEEGEG IRDLFDCDFGDLTPLDF	
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Chromatograms:	https://cdn.origene.com/chromatograms/mg2819_e09.zip	
Restriction Sites:	ction Sites: Sgfl-Mlul	

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Cloning Scheme:



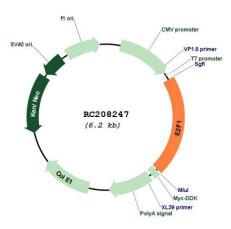
ACCN:	NM_005225
ORF Size:	1311 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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 <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.

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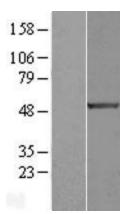
	E2F1 (NM_005225) Human Tagged ORF Clone – RC208247
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 005225.3</u>
RefSeq Size:	2486 bp
RefSeq ORF:	1314 bp
Locus ID:	1869
UniProt ID:	<u>Q01094</u>
Cytogenetics:	20q11.22
Domains:	E2F_TDP
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathway	s: Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer
MW:	46.7 kDa
Gene Summary:	The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F2 and E2F3, have an additional cyclin binding domain. This protein binds preferentially to retinoblastoma protein pRB in a cell-cycle dependent manner. It can mediate both cell proliferation and p53-dependent/independent apoptosis. [provided by RefSeq, Jul 2008]

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Product images:



Circular map for RC208247



Western blot validation of overexpression lysate (Cat# [LY417432]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208247 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified E2F1 protein (Cat# [TP308247]). The protein was produced from HEK293T cells transfected with E2F1 cDNA clone (Cat# RC208247) using MegaTran 2.0 (Cat# [TT210002]).

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