

## Product datasheet for RC221587

### E2F5 (NM\_001083588) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	E2F5 (NM_001083588) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2F5
Synonyms:	E2F-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221587 representing NM_001083588 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGCGCAGAGCCCGCGAGCTCGGGCCAGCAGGCGCCGGCAGGGCAGGGCCAGGGCCAGCGGCCG  
CGCCGAGCCTCCGAGGCGCAAGCCCCGAGCCGCCCGCCCGCGCAGCTCGGGGGCGCCGGGGCGG  
CAGCAGCAGGCACGAGAAGAGCCTGGGGCTGCTACTACCAAGTTCGTGTCGCTGCTGCAGGAGGCCAAG  
GACGGCGTTCTGGATCTCAAAGCGGCTGCTGATACTTTGGCTGTGAGGCAAAAAAGGAGAATTTATGATA  
TCACCAATGTCTTAGAGGAATTGACTTGATTGAAAAAAGTCAAAAAACAGTATCCAGTGGAAAGGTGT  
AGGTGCTGGCTGTAATACTAAAGAAGTCATAGATAGATTAAGATATCTTAAAGCTGAAATTGAAGATCTA  
GAACTGAAGAAAAGAACTTGATCAGCAGAAAGTTGTGGCTACAGCAAAGCATCAAAAATGTGATGGACG  
ATTCCATTAATAATAGATTTTCCTATGTAACATGAAGACATCTGTAATTGCTTTAATGGTGATACACT  
TTTGGCCATTCAGGCACCTTCTGGTACACAACCTGGAGGTACCCATTCCAGAAATGGGTGAGAATGGACAA  
AAGAAATACCAGATCAATCTAAAGATCATTGAGGACCTATCCATGTGCTGCTTATAAATAAGAGTCGA  
GTTTCATCTAAGCCGTGGTTTTTCTGTCCCCACCTGATGACCTCACACAGCCTTCTCCAGTCCTT  
GACTCCAGTGACTCCACAGAAATCCAGCATGGCAACTCAAAATCTGCCTGAGCAACATGTCTCTGAAAGA  
AGCCAGGCTCTGCAGCAGACATCAGCTACAGATATATCTTCAGGATCTATTAGTGGAGATATCATTGATG  
AGTTAATGTCTTCTGACGTGTTTCTCTCTTAAGGCTTTCTCCTACCCCGCAGATGACTACAACCTTAA  
TTTAGATGATAACGAAGGAGTTTGATCTGTTTGTGATGTCAGATACTAAATTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC221587 representing NM\_001083588  
Red=Cloning site Green=Tags(s)

MAAAEPASSGQQAPAGQGQQRPPPPQPQAQAPPPPPQLGGAGGGSSRHEKSLGLLTTKFVSLLEAK  
 DGVLDLKAAADTLAVRQKRRIYDITNVLEGIDLIEKSKNSIQWKVGVGAGCNTKEVIDRLRYLKAIEDL  
 ELKERELDQQLWLQOSIKNVMDDSIINNRF SYVTHE DICNCFNGDTLLAIQAPSGTQLEVP IPEMGQNGQ  
 KKYQINLKSHSGPIHVLLINKESSSSKPVVFPVPPDDLTQPSSQSLTPVTPQKSSMATQNLPEQHVSER  
 SQALQQT SATDISSGSI SGGDIIDELMSSDVFPLLR LSP TPADYNFNLDDNEGVCDLFDVQILNY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8041\\_f03.zip](https://cdn.origene.com/chromatograms/mk8041_f03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001083588

**ORF Size:** 1035 bp

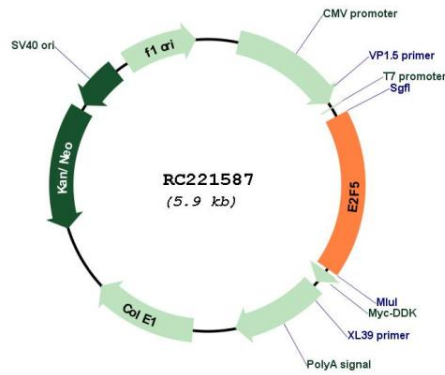
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

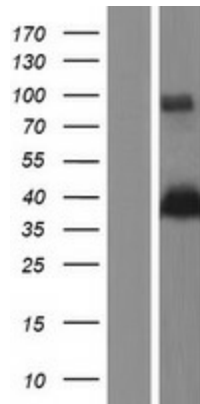
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<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_001083588.2</a>
<b>RefSeq Size:</b>	1740 bp
<b>RefSeq ORF:</b>	1038 bp
<b>Locus ID:</b>	1875
<b>UniProt ID:</b>	<a href="#">Q15329</a>
<b>Cytogenetics:</b>	8q21.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Cell cycle, TGF-beta signaling pathway
<b>MW:</b>	37.4 kDa
<b>Gene Summary:</b>	<p>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 evolutionarily conserved domains that are present 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 is differentially phosphorylated and is expressed in a wide variety of human tissues. It has higher identity to E2F4 than to other family members. Both this protein and E2F4 interact with tumor suppressor proteins p130 and p107, but not with pRB. Alternative splicing results in multiple variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC221587



Western blot validation of overexpression lysate (Cat# [LY421221]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221587 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).