

## Product datasheet for **RG224333**

### E2F5 (NM\_001083589) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** E2F5 (NM\_001083589) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** E2F5  
**Synonyms:** E2F-5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG224333 representing NM\_001083589  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACGATTCCATTAATAATAGATTTTCTATGTAACACTCATGAAGACATCTGTAATTGCTTTAATGGTG  
 ATACACTTTTGGCCATTAGGCACCTTCTGGTACACAACCTGGAGGTACCCATTCCAGAAATGGGTCAGAA  
 TGGACAAAAGAAATACCAGATCAATCTAAAGAGTCATTCCAGGACCTATCCATGTGCTGCTATAAATAAA  
 GAGTCGAGTTCATCTAAGCCCGTGGTTTTTCTGTTCCCCACCTGATGACCTCACACAGCCTTCTCTCC  
 AGTCCTTGACTCCAGTGACTCCACAGAAATCCAGCATGGCAACTCAAATCTGCCTGAGCAACATGTCTC  
 TGAAGAAGCCAGGCTCTGCAGCAGACATCAGCTACAGATATATCTTCCAGCAGGATCTATTAGTGGAGAT  
 ATCATTGATGAGTTAATGTCTTCTGACGTGTTTCTCTCTTAAGGCTTCTCTACCCCGGCAGATGACT  
 ACAACTTAATTTAGATGATAACGAAGGAGTTTGTGATCTGTTTGATGTCCAGATACTAAATTAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG224333 representing NM\_001083589  
 Red=Cloning site Green=Tags(s)

MDDSINNRFVSYVTHEDICNCFNGDITLLAIQAPSGTQLEVPIPEMGQNGQKQYQINLKSHSGPIHVLLINK  
 ESSSSKPVVFPVPPDDLTQPSSQSLTPVTPQKSSMATQNLPEQHVSESRQALQQTATDISSAGSISGD  
 IDELMSSDVFPLLRLSPTADDYFNLDNEGVCDFDQVILNY

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<b>Components:</b>	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>	<u><a href="#">NM_001083589.2</a></u>
<b>RefSeq Size:</b>	1594 bp
<b>RefSeq ORF:</b>	558 bp
<b>Locus ID:</b>	1875
<b>UniProt ID:</b>	<u><a href="#">Q15329</a></u>
<b>Cytogenetics:</b>	8q21.2
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Cell cycle, TGF-beta signaling pathway
<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>