

## Product datasheet for **RC221587L3V**

### **E2F5 (NM\_001083588) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	E2F5 (NM_001083588) Human Tagged ORF Clone Lentiviral Particle
Symbol:	E2F5
Synonyms:	E2F-5
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001083588
ORF Size:	1035 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221587).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_001083588.1</a>
RefSeq Size:	1740 bp
RefSeq ORF:	1038 bp
Locus ID:	1875
UniProt ID:	<a href="#">Q15329</a>
Cytogenetics:	8q21.2
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Cell cycle, TGF-beta signaling pathway



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**MW:** 37.4 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 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]