

## Product datasheet for **TL313318**

### **E2F5 Human shRNA Plasmid Kit (Locus ID 1875)**

#### **Product data:**

Product Type:	shRNA Plasmids
Product Name:	E2F5 Human shRNA Plasmid Kit (Locus ID 1875)
Locus ID:	1875
Synonyms:	E2F-5
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	E2F5 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1875). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_001083588</a> , <a href="#">NM_001083589</a> , <a href="#">NM_001951</a> , <a href="#">NM_001083588.1</a> , <a href="#">NM_001951.1</a> , <a href="#">NM_001951.2</a> , <a href="#">NM_001951.3</a> , <a href="#">NM_001083589.1</a> , <a href="#">BC156210</a> , <a href="#">BC172475</a> , <a href="#">BM919591</a> , <a href="#">NM_001083588.2</a> , <a href="#">NM_001083589.2</a> , <a href="#">NM_001951.4</a>
UniProt ID:	<a href="#">Q15329</a>
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]



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**shRNA Design:**

These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact [techsupport@origene.com](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).

**Performance Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).