

## Product datasheet for **TF310423**

### PIK3R5 Human shRNA Plasmid Kit (Locus ID 23533)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	PIK3R5 Human shRNA Plasmid Kit (Locus ID 23533)
Locus ID:	23533
Synonyms:	F730038I15Rik; FOAP-2; p101; P101-PI3K
Vector:	pRFP-C-RS (TR30014)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	PIK3R5 - Human, 4 unique 29mer shRNA constructs in retroviral RFP vector(Gene ID = 23533). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRFP-C-RS Vector, TR30015, included for free.
RefSeq:	<a href="#">NM_001142633</a> , <a href="#">NM_001251851</a> , <a href="#">NM_001251852</a> , <a href="#">NM_001251853</a> , <a href="#">NM_001251855</a> , <a href="#">NM_014308</a> , <a href="#">NM_014308.1</a> , <a href="#">NM_014308.2</a> , <a href="#">NM_014308.3</a> , <a href="#">NM_001142633.1</a> , <a href="#">NM_001142633.2</a> , <a href="#">NM_001251851.1</a> , <a href="#">NM_001251852.1</a> , <a href="#">NM_001251853.1</a> , <a href="#">NM_001251855.1</a> , <a href="#">BC028212</a> , <a href="#">NM_001251851.2</a>
UniProt ID:	<a href="#">Q8WYR1</a>
Summary:	Phosphatidylinositol 3-kinases (PI3Ks) phosphorylate the inositol ring of phosphatidylinositol at the 3-prime position, and play important roles in cell growth, proliferation, differentiation, motility, survival and intracellular trafficking. The PI3Ks are divided into three classes: I, II and III, and only the class I PI3Ks are involved in oncogenesis. This gene encodes the 101 kD regulatory subunit of the class I PI3K gamma complex, which is a dimeric enzyme, consisting of a 110 kD catalytic subunit gamma and a regulatory subunit of either 55, 87 or 101 kD. This protein recruits the catalytic subunit from the cytosol to the plasma membrane through high-affinity interaction with G-beta-gamma proteins. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found. [provided by RefSeq, Oct 2011]
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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .



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**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).