

## Product datasheet for **TR302129**

### **RAD51C Human shRNA Plasmid Kit (Locus ID 5889)**

#### **Product data:**

<b>Product Type:</b>	shRNA Plasmids
<b>Product Name:</b>	RAD51C Human shRNA Plasmid Kit (Locus ID 5889)
<b>Locus ID:</b>	5889
<b>Synonyms:</b>	BROVCA3; FANCO; R51H3; RAD51L2
<b>Vector:</b>	pRS (TR20003)
<b>E. coli Selection:</b>	Ampicillin
<b>Mammalian Cell Selection:</b>	Puromycin
<b>Format:</b>	Retroviral plasmids
<b>Components:</b>	RAD51C - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 5889). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
<b>RefSeq:</b>	<a href="#">NM_002876</a> , <a href="#">NM_058216</a> , <a href="#">NM_058217</a> , <a href="#">NR_103872</a> , <a href="#">NR_103873</a> , <a href="#">NM_058216.1</a> , <a href="#">NM_058216.2</a> , <a href="#">NM_002876.1</a> , <a href="#">NM_002876.2</a> , <a href="#">NM_002876.3</a> , <a href="#">BC107753</a> , <a href="#">BC107753.1</a> , <a href="#">BC000667</a> , <a href="#">BC064578</a> , <a href="#">BC073161</a> , <a href="#">BC093930</a> , <a href="#">BC101485</a> , <a href="#">BC143259</a> , <a href="#">BM987503</a> , <a href="#">NM_058216.3</a>
<b>UniProt ID:</b>	<a href="#">O43502</a>
<b>Summary:</b>	This gene is a member of the RAD51 family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae Rad51 and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with other RAD51 paralogs and is reported to be important for Holliday junction resolution. Mutations in this gene are associated with Fanconi anemia-like syndrome. This gene is one of four localized to a region of chromosome 17q23 where amplification occurs frequently in breast tumors. Overexpression of the four genes during amplification has been observed and suggests a possible role in tumor progression. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
<b>shRNA Design:</b>	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).