

## Product datasheet for **TR311844**

### **KRIT1 Human shRNA Plasmid Kit (Locus ID 889)**

#### **Product data:**

Product Type:	shRNA Plasmids
Product Name:	KRIT1 Human shRNA Plasmid Kit (Locus ID 889)
Locus ID:	889
Synonyms:	CAM; CCM1
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	KRIT1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 889). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001013406</a> , <a href="#">NM_004912</a> , <a href="#">NM_194454</a> , <a href="#">NM_194455</a> , <a href="#">NM_194456</a> , <a href="#">NM_001350669</a> , <a href="#">NM_001350670</a> , <a href="#">NM_001350671</a> , <a href="#">NM_001350672</a> , <a href="#">NM_001350673</a> , <a href="#">NM_001350674</a> , <a href="#">NM_001350675</a> , <a href="#">NM_001350676</a> , <a href="#">NM_001350677</a> , <a href="#">NM_001350678</a> , <a href="#">NM_001350679</a> , <a href="#">NM_001350680</a> , <a href="#">NM_001350681</a> , <a href="#">NM_001350682</a> , <a href="#">NM_001350683</a> , <a href="#">NM_001350684</a> , <a href="#">NM_001350685</a> , <a href="#">NM_001350686</a> , <a href="#">NM_001350687</a> , <a href="#">NM_001350688</a> , <a href="#">NM_001350689</a> , <a href="#">NM_001350690</a> , <a href="#">NM_001350691</a> , <a href="#">NM_001350692</a> , <a href="#">NM_001350693</a> , <a href="#">NM_001350694</a> , <a href="#">NM_001350695</a> , <a href="#">NM_001350696</a> , <a href="#">NM_001350697</a> , <a href="#">NM_194456.1</a> , <a href="#">NM_004912.1</a> , <a href="#">NM_004912.2</a> , <a href="#">NM_004912.3</a> , <a href="#">NM_001013406.1</a> , <a href="#">NM_194455.1</a> , <a href="#">NM_194454.1</a> , <a href="#">BC094684</a> , <a href="#">BC094684.1</a> , <a href="#">NM_194454.2</a> , <a href="#">NM_001013406.2</a> , <a href="#">NM_194454.3</a> , <a href="#">NM_004912.4</a>
UniProt ID:	<a href="#">O00522</a>



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- Summary:** This gene encodes a protein containing four ankyrin repeats, a band 4.1/ezrin/radixin/moesin (FERM) domain, and multiple NPXY sequences. The encoded protein is localized in the nucleus and cytoplasm. It binds to integrin cytoplasmic domain-associated protein-1 alpha (ICAP1alpha), and plays a critical role in beta1-integrin-mediated cell proliferation. It associates with junction proteins and RAS-related protein 1A (Rap1A), which requires the encoded protein for maintaining the integrity of endothelial junctions. It is also a microtubule-associated protein and may play a role in microtubule targeting. Mutations in this gene result in cerebral cavernous malformations. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2009]
- 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).