Product datasheet for TR314502

BCAR1 Human shRNA Plasmid Kit (Locus ID 9564)

Product data:

Product Type:	shRNA Plasmids
Product Name:	BCAR1 Human shRNA Plasmid Kit (Locus ID 9564)
Locus ID:	9564
Synonyms:	CAS; CAS1; CASS1; CRKAS; P130Cas
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	BCAR1 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 9564). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001170714, NM_001170715, NM_001170716, NM_001170717, NM_001170718, NM_001170719, NM_001170720, NM_001170721, NM_014567, NM_014567.1, NM_014567.2, NM_014567.3, NM_001170721.1, NM_001170720.1, NM_001170719.1, NM_001170718.1, NM_001170715.1, NM_001170716.1, NM_001170717.1, NM_001170714.1, BC062556, BC062556.1, BC014402, NM_001170719.3, NM_001170718.3, NM_001170715.3, NM_001170717.3, NM_001170721.2, NM_001170720.3, NM_001170714.3, NM_001170716.3, NM_014567.5
UniProt ID:	P56945
Summary:	The protein encoded by this gene is a member of the Crk-associated substrate (CAS) family of scaffold proteins, characterized by the presence of multiple protein-protein interaction domains and many serine and tyrosine phosphorylation sites. The encoded protein contains a Src-homology 3 (SH3) domain, a proline-rich domain, a substrate domain which contains 15 repeat of the YxxP consensus phosphorylation motif for Src family kinases, a serine-rich domain, and a bipartite Src-binding domain, which can bind both SH2 and SH3 domains. This adaptor protein functions in multiple cellular pathways, including in cell motility, apoptosis and cell cycle control. Dysregulation of this gene can have a wide range of effects, affecting different pathways, including cardiac development, vascular smooth muscle cells, liver and kidney function, endothelial migration, and cancer. [provided by RefSeq, Sep 2017]

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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. 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. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).