

## Product datasheet for **TR306778**

### AKAP13 Human shRNA Plasmid Kit (Locus ID 11214)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	AKAP13 Human shRNA Plasmid Kit (Locus ID 11214)
Locus ID:	11214
Synonyms:	AKAP-13; AKAP-Lbc; ARHGEF13; BRX; c-lbc; HA-3; Ht31; LBC; p47; PRKA13; PROTO-LB; PROTO-LBC
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	AKAP13 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 11214). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	<a href="#">NM_001270546</a> , <a href="#">NM_006738</a> , <a href="#">NM_007200</a> , <a href="#">NM_144767</a> , <a href="#">NM_007200.1</a> , <a href="#">NM_007200.2</a> , <a href="#">NM_007200.3</a> , <a href="#">NM_007200.4</a> , <a href="#">NM_006738.3</a> , <a href="#">NM_006738.4</a> , <a href="#">NM_006738.5</a> , <a href="#">NM_001270546.1</a> , <a href="#">NM_144767.3</a> , <a href="#">BC000269</a> , <a href="#">BC009213</a> , <a href="#">BC017368</a> , <a href="#">BC019662</a> , <a href="#">BC040109</a> , <a href="#">BC050312</a> , <a href="#">BC063592</a> , <a href="#">BC089394</a> , <a href="#">BC140862</a> , <a href="#">BC171798</a> , <a href="#">BC172356</a> , <a href="#">NM_007200.5</a> , <a href="#">NM_006738.6</a>
UniProt ID:	<a href="#">Q12802</a>
Summary:	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms containing c-terminal dbl oncogene homology (DH) and pleckstrin homology (PH) domains. The DH domain is associated with guanine nucleotide exchange activation for the Rho/Rac family of small GTP binding proteins, resulting in the conversion of the inactive GTPase to the active form capable of transducing signals. The PH domain has multiple functions. Therefore, these isoforms function as scaffolding proteins to coordinate a Rho signaling pathway, function as protein kinase A-anchoring proteins and, in addition, enhance ligand-dependent activity of estrogen receptors alpha and beta. [provided by RefSeq, Jul 2012]



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<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> .
<b>Performance Guaranteed:</b>	<p>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.</p> <p>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 <a href="mailto:techsupport@origene.com">techsupport@origene.com</a>. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).</p>