

Product datasheet for **TR314670**

ARHGEF9 Human shRNA Plasmid Kit (Locus ID 23229)

Product data:

Product Type:	shRNA Plasmids
Product Name:	ARHGEF9 Human shRNA Plasmid Kit (Locus ID 23229)
Locus ID:	23229
Synonyms:	COLLYBISTIN; DEE8; EIEE8; HPEM-2; PEM-2; PEM2
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	ARHGEF9 - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 23229). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001173479 , NM_001173480 , NM_001330495 , NM_015185 , NM_001353921 , NM_001353922 , NM_001353923 , NM_001353924 , NM_001353926 , NM_001353927 , NM_001353928 , NM_015185.1 , NM_015185.2 , NM_001173480.1 , NM_001173479.1 , BC117406 , BC018106 , BC043497 , BC046138 , BC056892 , BC105301 , NM_001369031 , NM_001369036 , NM_001369037 , NM_001369039 , NM_001369041 , NM_001369043 , NM_001369044 , NM_001369045 , NM_001369030 , NM_001369032 , NM_001369033 , NM_001369034 , NM_001369035 , NM_001369038 , NM_001369040 , NM_001369042 , NM_001173479.2 , NM_015185.3
UniProt ID:	O43307
Summary:	The protein encoded by this gene is a Rho-like GTPase that switches between the active (GTP-bound) state and inactive (GDP-bound) state to regulate CDC42 and other genes. This brain-specific protein also acts as an adaptor protein for the recruitment of gephyrin and together these proteins facilitate receptor recruitment in GABAergic and glycinergic synapses. Defects in this gene are the cause of startle disease with epilepsy (STHEE), also known as hyperekplexia with epilepsy, as well as several other types of cognitive disability. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 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).