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Product datasheet for TR509679

Cdk5rap2 Mouse shRNA Plasmid (Locus ID 214444)

Product data:

Product Type:	shRNA Plasmids
Product Name:	Cdk5rap2 Mouse shRNA Plasmid (Locus ID 214444)
Locus ID:	214444
Synonyms:	2900018K03Rik; an; mKIAA1633
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	Cdk5rap2 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 214444). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC086696, NM_001313762, NM_145990, NM_145990.1, NM_145990.2, NM_145990.3, NM_145990.4, BC027761, BC059253, BC079888, BC110364
UniProt ID:	Q8K389
Summary:	Potential regulator of CDK5 activity via its interaction with CDK5R1. Negative regulator of centriole disengagement (licensing) which maintains centriole engagement and cohesion (PubMed:20627074). Involved in regulation of mitotic spindle orientation (PubMed:20460369). Plays a role in the spindle checkpoint activation by acting as a transcriptional regulator of both BUBR1 and MAD2 promoter. Required for the recruitment of AKAP9 to centrosomes (By similarity). Plays a role in neurogenesis (PubMed:20471352). Contrary to higher mammalian orthologs, including human, chimpanzee, bovine and dog, does not interact with EB1/MAPRE1, therefore its function in the regulation of microtubule dynamics is unclear (PubMed:19553473).[UniProtKB/Swiss-Prot Function]
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.

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