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Product datasheet for TR313935

CHM Human shRNA Plasmid Kit (Locus ID 1121)

Product data:

Product Type:	shRNA Plasmids
Product Name:	CHM Human shRNA Plasmid Kit (Locus ID 1121)
Locus ID:	1121
Synonyms:	DXS540; GGTA; HSD-32; REP-1; TCD
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	CHM - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 1121). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	BC032237, NM_000390, NM_001037312, NM_001145414, NM_001320959, NM_000390.1, NM_000390.2, NM_000390.3, NM_001145414.1, NM_001145414.2, NM_001145414.3, NM_001037312.1, BC063522, BC065702, BC073987, BC105969, BC130494, BC130496, BC156457, BC172532, NM_001362519, NM_001362517, NM_001362518, NM_001145414.4, NM_000390.4
UniProt ID:	P24386
Summary:	This gene encodes component A of the RAB geranylgeranyl transferase holoenzyme. In the dimeric holoenzyme, this subunit binds unprenylated Rab GTPases and then presents them to the catalytic Rab GGTase subunit for the geranylgeranyl transfer reaction. Rab GTPases need to be geranylgeranyled on either one or two cysteine residues in their C-terminus to localize to the correct intracellular membrane. Mutations in this gene are a cause of choroideremia; also known as tapetochoroidal dystrophy (TCD). This X-linked disease is characterized by progressive dystrophy of the choroid, retinal pigment epithelium and retina. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2016]
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).