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Product datasheet for TR311275

NACA Human shRNA Plasmid Kit (Locus ID 4666)

Product data:

Product Type:	shRNA Plasmids
Product Name:	NACA Human shRNA Plasmid Kit (Locus ID 4666)
Locus ID:	4666
Synonyms:	HSD48; NAC-alpha; NACA1; skNAC
Vector:	pRS (TR20003)
E. coli Selection:	Ampicillin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	NACA - Human, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID = 4666). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.
RefSeq:	NM_001113201, NM_001113202, NM_001113203, NM_005594, NR_045277, NM_001320193, NM_001320194, NM_005594.1, NM_005594.2, NM_005594.3, NM_005594.4, NM_005594.5, NM_001113202.1, NM_001113201.1, NM_001113201.2, NM_001113203.1, NM_001113203.2, BC105120, BC105120.1, BC105122, BC106041, NM_001365896, NM_001113201.3, NM_001113203.3, NM_001113202.2
UniProt ID:	Q13765
Summary:	This gene encodes a protein that associates with basic transcription factor 3 (BTF3) to form the nascent polypeptide-associated complex (NAC). This complex binds to nascent proteins that lack a signal peptide motif as they emerge from the ribosome, blocking interaction with the signal recognition particle (SRP) and preventing mistranslocation to the endoplasmic reticulum. This protein is an IgE autoantigen in atopic dermatitis patients. Alternative splicing results in multiple transcript variants, but the full length nature of some of these variants, including those encoding very large proteins, has not been determined. There are multiple pseudogenes of this gene on different chromosomes. [provided by RefSeq, Feb 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).