

## Product datasheet for **TG304714**

### EYA4 Human shRNA Plasmid Kit (Locus ID 2070)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	EYA4 Human shRNA Plasmid Kit (Locus ID 2070)
Locus ID:	2070
Synonyms:	CMD1J; DFNA10
Vector:	pGFP-V-RS (TR30007)
E. coli Selection:	Kanamycin
Mammalian Cell Selection:	Puromycin
Format:	Retroviral plasmids
Components:	EYA4 - Human, 4 unique 29mer shRNA constructs in retroviral GFP vector(Gene ID = 2070). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-V-RS Vector, TR30013, included for free.
RefSeq:	<a href="#">NM_001301012</a> , <a href="#">NM_001301013</a> , <a href="#">NM_004100</a> , <a href="#">NM_172103</a> , <a href="#">NM_172104</a> , <a href="#">NM_172105</a> , <a href="#">NM_172103.1</a> , <a href="#">NM_172103.2</a> , <a href="#">NM_172103.3</a> , <a href="#">NM_004100.1</a> , <a href="#">NM_004100.2</a> , <a href="#">NM_004100.3</a> , <a href="#">NM_004100.4</a> , <a href="#">NM_172105.1</a> , <a href="#">NM_172105.2</a> , <a href="#">NM_172105.3</a> , <a href="#">NM_001301012.1</a> , <a href="#">NM_001301013.1</a> , <a href="#">BC041063</a> , <a href="#">BC014193</a> , <a href="#">BC030588</a> , <a href="#">NM_001370458</a> , <a href="#">NM_001370459</a> , <a href="#">NM_004100.5</a>
UniProt ID:	<a href="#">O95677</a>
Summary:	This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may act as a transcriptional activator through its protein phosphatase activity, and it may be important for eye development, and for continued function of the mature organ of Corti. Mutations in this gene are associated with postlingual, progressive, autosomal dominant hearing loss at the deafness, autosomal dominant non-syndromic sensorineural 10 locus. The encoded protein is also a putative oncogene that mediates DNA repair, apoptosis, and innate immunity following DNA damage, cellular damage, and viral attack. Defects in this gene are also associated with dilated cardiomyopathy 1J. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]
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 <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> .



[View online »](#)

**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](mailto: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).