

## Product datasheet for **TL313071**

### FANCA Human shRNA Plasmid Kit (Locus ID 2175)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	FANCA Human shRNA Plasmid Kit (Locus ID 2175)
Locus ID:	2175
Synonyms:	FA; FA-H; FA1; FAA; FACA; FAH; FANCH
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	FANCA - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 2175). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">NM_000135</a> , <a href="#">NM_001018112</a> , <a href="#">NM_001286167</a> , <a href="#">NM_001351830</a> , <a href="#">NM_000135.1</a> , <a href="#">NM_000135.2</a> , <a href="#">NM_001018112.1</a> , <a href="#">NM_001286167.1</a> , <a href="#">BC008979</a> , <a href="#">BC022498</a> , <a href="#">BC064540</a> , <a href="#">BC120978</a> , <a href="#">BC120979</a> , <a href="#">BC127633</a> , <a href="#">BC141971</a> , <a href="#">BC141972</a> , <a href="#">BC156522</a> , <a href="#">BC172515</a> , <a href="#">NM_000135.4</a> , <a href="#">NM_001286167.3</a> , <a href="#">NM_001018112.3</a>
UniProt ID:	<a href="#">O15360</a>
Summary:	The Fanconi anemia complementation group (FANC) currently includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCD2, FANCE, FANCF, FANCG, FANCI, FANCJ (also called BRIP1), FANCL, FANCM and FANCN (also called PALB2). The previously defined group FANCH is the same as FANCA. Fanconi anemia is a genetically heterogeneous recessive disorder characterized by cytogenetic instability, hypersensitivity to DNA crosslinking agents, increased chromosomal breakage, and defective DNA repair. The members of the Fanconi anemia complementation group do not share sequence similarity; they are related by their assembly into a common nuclear protein complex. This gene encodes the protein for complementation group A. Alternative splicing results in multiple transcript variants encoding different isoforms. Mutations in this gene are the most common cause of Fanconi anemia. [provided by RefSeq, Jul 2008]



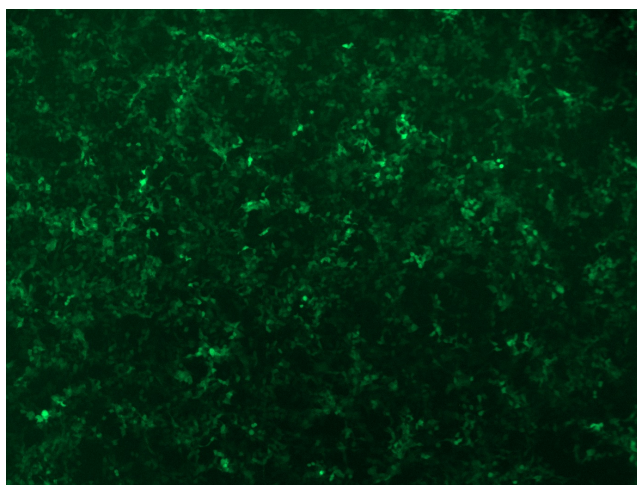
[View online »](#)

**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](mailto:techsupport@origene.com). If you need a special design or shRNA sequence, please utilize our [custom shRNA service](#).

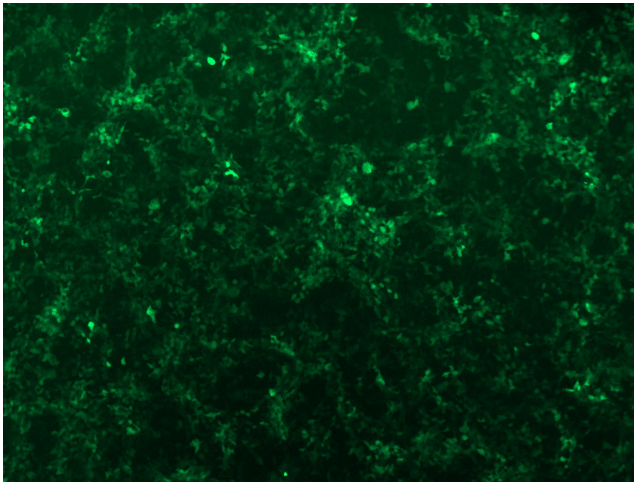
**Performance Guaranteed:** OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection 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](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).

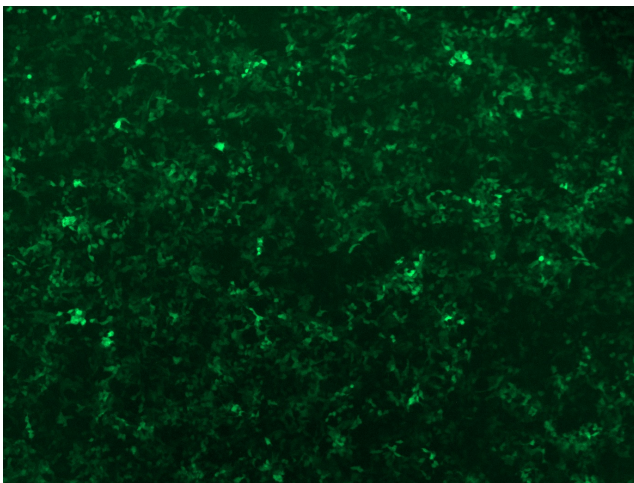
### Product images:



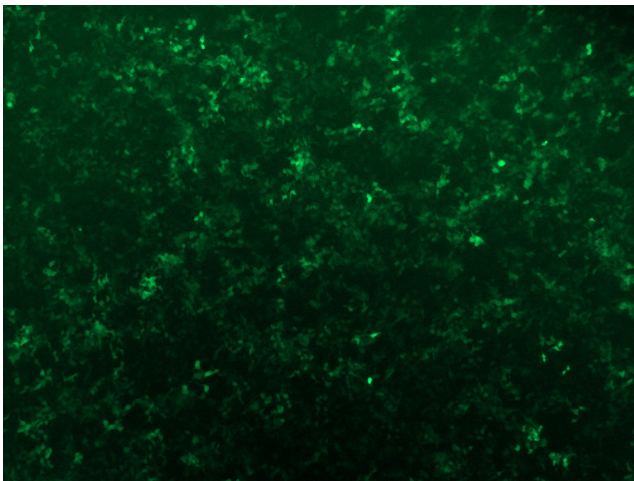
GFP signal was observed under microscope at 48 hours after transduction of TL313071A virus into HEK293 cells. TL313071A virus was prepared using lenti-shRNA TL313071A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL313071B virus into HEK293 cells. TL313071B virus was prepared using lenti-shRNA TL313071B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313071C] virus into HEK293 cells. [TL313071C] virus was prepared using lenti-shRNA [TL313071C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL313071D] virus into HEK293 cells. [TL313071D] virus was prepared using lenti-shRNA [TL313071D] and [TR30037] packaging kit.