

## Product datasheet for **TL514670**

### Fxn Mouse shRNA Plasmid (Locus ID 14297)

#### Product data:

Product Type:	shRNA Plasmids
Product Name:	Fxn Mouse shRNA Plasmid (Locus ID 14297)
Locus ID:	14297
Synonyms:	FA; FARR; Frda; X25
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	Fxn - Mouse, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 14297). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	<a href="#">BC125337</a> , <a href="#">BC132337</a> , <a href="#">NM_008044</a> , <a href="#">NM_008044.1</a> , <a href="#">NM_008044.2</a> , <a href="#">BC016644</a> , <a href="#">BC038010</a> , <a href="#">BC058533</a> , <a href="#">NM_008044.3</a>
UniProt ID:	<a href="#">O35943</a>
Summary:	Promotes the biosynthesis of heme and assembly and repair of iron-sulfur clusters by delivering Fe(2+) to proteins involved in these pathways. May play a role in the protection against iron-catalyzed oxidative stress through its ability to catalyze the oxidation of Fe(2+) to Fe(3+); the oligomeric form but not the monomeric form has in vitro ferroxidase activity. May be able to store large amounts of iron in the form of a ferrihydrite mineral by oligomerization. Modulates the RNA-binding activity of ACO1 (By similarity).[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 <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> .

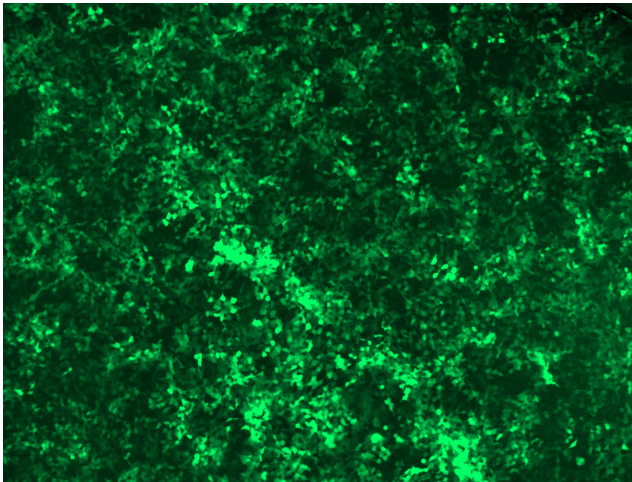


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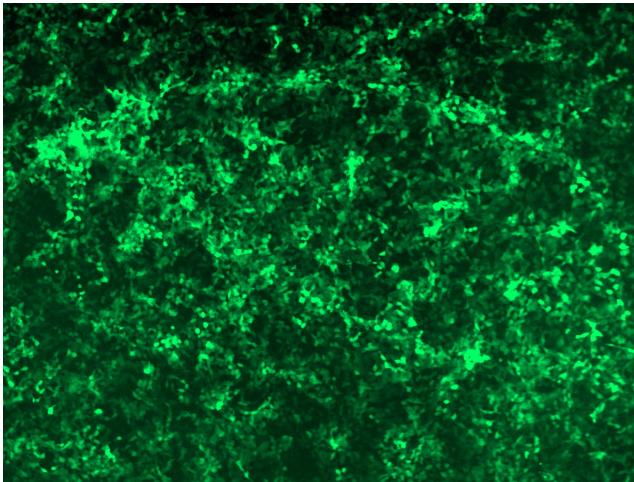
**Performance  
Guaranteed:**

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.

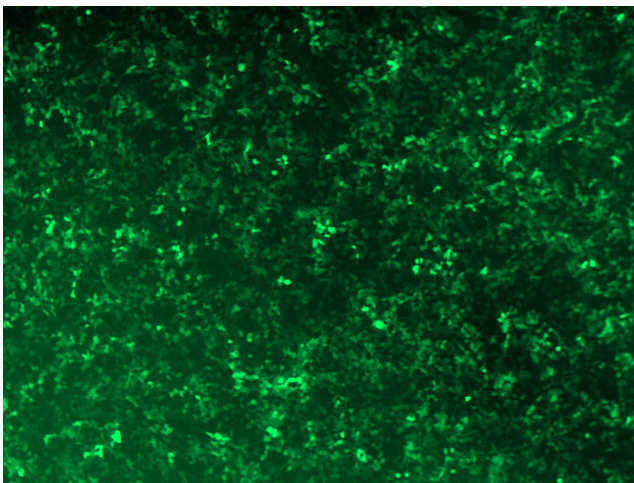
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). 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:**

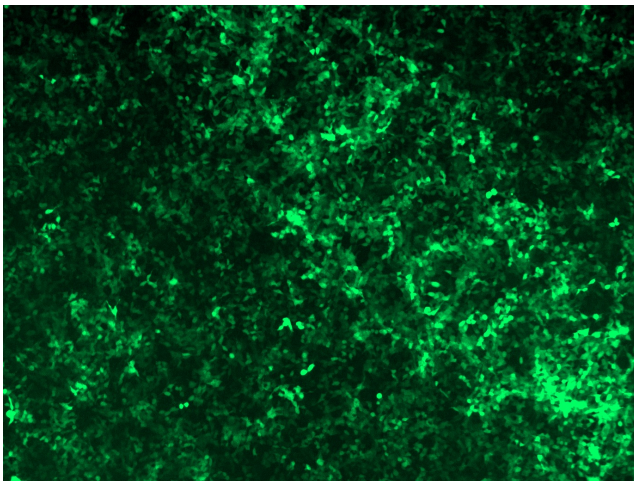
GFP signal was observed under microscope at 48 hours after transduction of TL514670A virus into HEK293 cells. TL514670A virus was prepared using lenti-shRNA TL514670A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL514670B virus into HEK293 cells. TL514670B virus was prepared using lenti-shRNA TL514670B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL514670C] virus into HEK293 cells. [TL514670C] virus was prepared using lenti-shRNA [TL514670C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL514670D] virus into HEK293 cells. [TL514670D] virus was prepared using lenti-shRNA [TL514670D] and [TR30037] packaging kit.