

Datasheet for ABIN5358926

## Chemical RHO ORF Clone in Lentiviral Vector (Myc-DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	Rhodopsin (RHO)
Species:	Chemical
Fusion tag:	Myc-DYKDDDDK Tag
Insert:	ORF
Vector:	Lentiviral Vector
Application:	Protein Expression (PEXP)

### Product Details

Purpose:	Lentiviral Vector with ORF clone of Human rhodopsin (RHO) , C-term Myc-DDK-tagged
Brand:	LentiORF
Insert Length:	1047 bp
Vector Backbone:	pLenti-C-Myc-DDK
Promoter:	CMV Promoter
Bacterial Resistance:	Chloramphenicol
Expression Type:	Transient
Specificity:	Restriction Site: SgfI-MluI
Characteristics:	<p>Myc-DDK tagged, C-terminal</p> <p>Broad cell spectrum: Lentivirus infect most cells, dividing &amp; non-dividing, easy-to-transfect &amp; hard-to-transfect cells.</p> <p>High transduction efficiency</p> <p>Convenience: Minimal need for optimization.</p> <p>Safety: 3rd generation system with improved biosafety.</p>

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## Product Details

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Components: 10 µg of lyophilized plasmid

## Target Details

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Gene: Rhodopsin (RHO)

Abstract: [RHO Products](#)

Target Type: Chemical

Background: Retinitis pigmentosa is an inherited progressive disease which is a major cause of blindness in western communities. It can be inherited as an autosomal dominant, autosomal recessive, or X-linked recessive disorder. In the autosomal dominant form, which comprises about 25 % of total cases, approximately 30 % of families have mutations in the gene encoding the rod photoreceptor-specific protein rhodopsin. This is the transmembrane protein which, when photoexcited, initiates the visual transduction cascade. Defects in this gene are also one of the causes of congenital stationary night blindness.

NCBI Accession: [NM\\_000539](#), [NP\\_000530](#)

## Application Details

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Application Notes: In hard-to-transfect cells: Detection and purification of over-expressed protein

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Storage: 4 °C/-20 °C

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)