

Datasheet for ABIN5358924

Chemical RHO ORF Clone in Lentiviral Vector (GFP tag)

Overview

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

Product Details

| | |
|-----------------------|---|
| Purpose: | Lentiviral Vector with ORF clone of Human rhodopsin (RHO) , C-term GFP tagged |
| Brand: | LentiORF |
| Insert Length: | 1047 bp |
| Vector Backbone: | pLenti-C-mGFP |
| Promoter: | CMV Promoter |
| Bacterial Resistance: | Chloramphenicol |
| Expression Type: | Transient |
| Specificity: | Restriction Site: Sgfl-MluI |
| Characteristics: | <p>mGFP tagged, C-terminal</p> <p>Broad cell spectrum: Lentivirus infect most cells, dividing & non-dividing, easy-to-transfect & 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

Components: 10 µg of lyophilized plasmid

Target Details

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

Application Notes: Ideal For Tracking the over-expressed protein in tranfected cells

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: 4 °C/-20 °C

Publications

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