

# Fluorescent Dye Labeled siRNA Oligo

(Cat# M1255-2 to M1255-10; 2 OD-10 OD; PAGE Purified; Store at -20°C)

## I. Introduction:

BioVision offers low price and high-quality **Fluorescent Dye Labeled siRNA Oligos**. All our siRNA oligos undergo vigorous process monitoring and strict quality control. Length and labeling are systematically controlled by PAGE or Mass Spectrometry Analysis. Quantity is systematically validated by UV absorbance at 260 nm. Although there are quite a lot principles for the designing of published sequences and quite a few companies supply on-line design service, up to now, no software can guarantee the efficiency of the oligos designed. BioVision and our collaboration laboratories have been involved in RNAi research for some time.

BioVision's **Fluorescent Dye Labeled siRNA Oligos** can be labeled in the four different ends of double stranded by multiple markers. The labeled siRNA oligos can be monitored by Flow Cytometry, fluorescence microscope, laser co-focus microscope and so on to determine transfection efficiency and optimize Transfection conditions. The labeled siRNA can also be used in siRNA intracellular localization and double labeling experiments (with labeled antibody) to track those siRNA transfected cells, then the reduction of target protein expression will be integrated with the transfection. Labeling of the anti-sense 5' end will influence the gene silencing activity, so labeling of this site is not recommended. Modification of any of other three ends has no influence on silencing activity. We recommend to modifying the 5' end of sense strand, which is the best recognized chemical labeling locus. 5' end fluorescence-labeled siRNA contributes to the direct observation of siRNA oligo transfection efficiency, provided by BioVision. 5' end fluorescence- labeled siRNA oligo is usually labeled by FAM, in double stranded form, and are PAGE purified. Additionally, BioVision offers Fluorescent Dye Labeled siRNA Negative Control (Cat. No. # M1257-1) that has no homology with mammalian gene. The negative control can be easily observed under fluorescent microscope to get the transfection efficiency, and is helpful for optimizing transfection conditions. The fluorescence labeled control can be easily photographed, and has great pH tolerance and thus much stable in living cells.

## II. Key Features:

- Offered as 3' or 5'-Labeled siRNA
- Can be monitored by Flow Cytometry, Fluorescence Microscope, Laser Co-Focus Microscope etc.
- Products are in Double Stranded form

## III. Specifications of Fluorescent Dye (FAM) Labeled siRNA Oligos:

- **Quality Control:** All our siRNA oligos undergo vigorous process monitoring and strict quality control. Length and labeling are systematically controlled by PAGE or mass spectrometry analysis. Quantity is systematically validated by UV abs at 260 nm.
- **Purification:** Fully deprotected and desalted; **Purified by PAGE**
- **Length:** 19 to 23 mers; **Bases:** RNA (A, C, G or U)
- **Backbone:** Phosphodiester bond
- **Labels and modifications:** Fluorescein, biotin and phosphate: 3' or 5' end
- **Format:** Single-strand RNA oligos is delivered in dry form
- **Oligonucleotide Technical Data Sheet:** Oligonucleotides are delivered with an Oligonucleotide Technical Data Sheet, which includes oligonucleotide name, sequence, concentration, size, purification method

## IV. Applications: siRNA Transfection

## V. Storage and Stability:

Although oligonucleotides are stable in solution at 4°C for up to 2 weeks, we recommend storage should be at -20°C. Repetitive freeze-thaw cycles should be avoided by storing as aliquots. For long-term storage, siRNA oligos should be dried

## VI. Shipment:

Shipped by express delivery, dry in individual, transparent tubes at ambient temperatures. Oligonucleotides with fluorescent labels should be protected from light. We guarantee our oligonucleotides for six months, when stored under the above conditions.

## VII. Package Contents (Fluorescent Labeled siRNA):

Components	Quantity	Part No.
Fluorescent Labeled siRNA	Varies	M1255-XX-1

## VIII. Related Products:

Product Name	Cat. No.	Quantity
Custom siRNA	M1253-2 to M1253-10	2 OD to 10 OD
Chemically Modified siRNA	M1254-2 to M1254-10	2 OD to 10 OD
Fluorescent labeled siRNA	M1255-2 to M1255-10	2 OD to 10 OD
Custom Neg Control siRNA	M1256-1	1 OD
Labeled Neg Control siRNA	M1257-1	1 OD
Custom Pos Control siRNA	M1258-1	1 OD
ss miRNA mimics	M1259-2 to M1259-10	2 OD to 10 OD
ss miRNA mimics Neg Control	M1260-1	1 OD
Labeled ss miRNA mimics Neg Control	M1261-1	1 OD
ds miRNA mimics	M1262-2 to M1262-10	2 OD to 10 OD
ds miRNA mimics Neg Control	M1263-1	1 OD
Labeled ds miRNA mimics Neg Control	M1264-1	1 OD
miRNA Inhibitor	M1265-2 to M1265-10	2 OD to 10 OD
miRNA Inhibitor Neg Control	M1266-1	1 OD
Labeled miRNA Inhibitor Neg Control	M1267-1	1 OD
Pre-designed siRNA Oligo Set A	M1268	Set
Pre-designed siRNA Oligo Set B	M1269	Set
Chemically Modified siRNA Set C	M1270	Set
Chemically Modified siRNA Set D	M1271	Set
Labeled siRNA Set E	M1272	Set
Labeled siRNA Set F	M1273	Set

FOR RESEARCH USE ONLY! Not to be used on humans.