

BLOCK-iT™ miR RNAi Select

Shipping and Storage

BLOCK-iT™ miR RNAi Select oligos are shipped lyophilized; store at -20°C.

Quantity and Quality of BLOCK-iT™ miR RNAi Select Oligos

BLOCK-iT™ miR RNAi Select oligos are provided desalted and are synthesized at the 50 nmol scale, which should yield enough DNA to perform at least 4 annealing reactions of 20 µl. For product qualification and the exact quantity of each oligo, see the Certificate of Analysis provided with your oligo.

Description

BLOCK-iT™ miR RNAi Select are pre-designed miR RNAi sequences, targeting >70% of the human, mouse and rat RefSeq genes. BLOCK-iT™ miR RNAi Select provides up to 4 miR sequences per gene that are supplied as 8 tubes containing 4 top oligos and 4 bottom DNA oligos. These oligos must be annealed and cloned into one of the BLOCK-iT™ Pol II miR RNAi Expression vectors, pcDNA™6.2-GW/miR or pcDNA™6.2-GW/EmGFP-miR, which will generate up to four different miR RNAi expression vectors directed against your gene of interest. The resulting miR RNAi expression vectors can be transfected into cells to knock down the gene of interest, or the hairpins can be transferred into lenti vectors to knock down the gene of interest in hard-to-transfect or primary cells. We guarantee that at least two out of the four miR RNAi expression vectors will result in >70% knockdown of the target gene (provided that the transfection efficiency in your experiment is at least 80%).

Selecting BLOCK-iT™ Pol II miR RNAi Kit

BLOCK-iT™ miR RNAi Select **must** be cloned into a BLOCK-iT™ Pol II miR RNAi Expression Vector before use. Several BLOCK-iT™ Pol II miR RNAi kits are available; ordering information is provided below. For more information, refer to www.invitrogen.com/RNAi or call Technical Support (see below).

Product	Catalog no.
BLOCK-iT™ Pol II miR RNAi Expression Vector Kit	K4935-00
BLOCK-iT™ Pol II miR RNAi Expression Vector Kit with EmGFP	K4936-00
BLOCK-iT™ Lentiviral Pol II miR RNAi Expression System	K4937-00
BLOCK-iT™ Lentiviral Pol II miR RNAi Expression System with EmGFP	K4938-00

Identifying BLOCK-iT™ miR RNAi Select Oligos

Each tube containing a BLOCK-iT™ miR RNAi Select Oligo is marked with a unique code; an example is shown below:

Hmi123456_top_SYMB

The code consists of three parts (separated by dashes):

- A unique miR RNAi identifier, starting with Hmi for human, Mmi for mouse, and Rmi for rat RNAi oligos, followed by six digits.
- A strand indicator: “top” for the top strand, “bot” for the bottom strand
- The gene symbol (may be partly abbreviated due to space constraints)

Resuspending the Oligos

Resuspend BLOCK-iT™ miR RNAi Select oligos in water or TE Buffer to a final concentration of 200 µM before use. Store at -20°C.

Using BLOCK-iT™ miR RNAi Select Oligos

BLOCK-iT™ miR RNAi Select is provided as single-stranded DNA oligos which need to be annealed prior to cloning into the BLOCK-iT™ Pol II miR RNAi vector of choice. Make sure you anneal the two matching single-stranded oligos, which are marked “top” and “bot” with the **same miR RNAi identifier (Hmi, Mmi or Rmi number)**. The two matching BLOCK-iT™ miR RNAi Select DNA oligos may arrive in separate shipments; if only one strand is present in a shipment, please wait for the remaining strand before proceeding.

Instructions for annealing the oligos and cloning them into the BLOCK-iT™ Pol II miR RNAi Expression Vector can be found in the **BLOCK-iT™ Pol II miR RNAi Expression Vector Kits** manual (see section **Generating the Double-Stranded Oligo** and subsequent sections in the manual). The manual is supplied with each BLOCK-iT™ Pol II miR RNAi Expression Kit, but is also available for downloading from our Web site.

Ordering More BLOCK-iT™ miR RNAi Select

If you want to order more BLOCK-iT™ miR RNAi Select, use the BLOCK-iT™ RNAi Express search engine (www.invitrogen.com/rnaiexpress). Just enter the gene name, accession number, or keyword, and choose your desired BLOCK-iT™ miR RNAi Select.

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