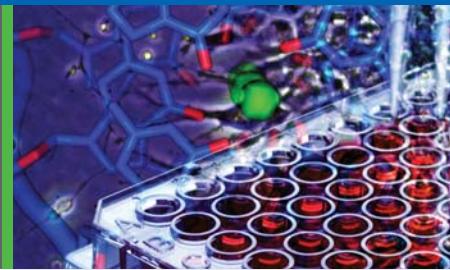


# OncomiR microRNA Precursor Virus Library

# 140 Cancer microRNAs in a Pooled Virus Format

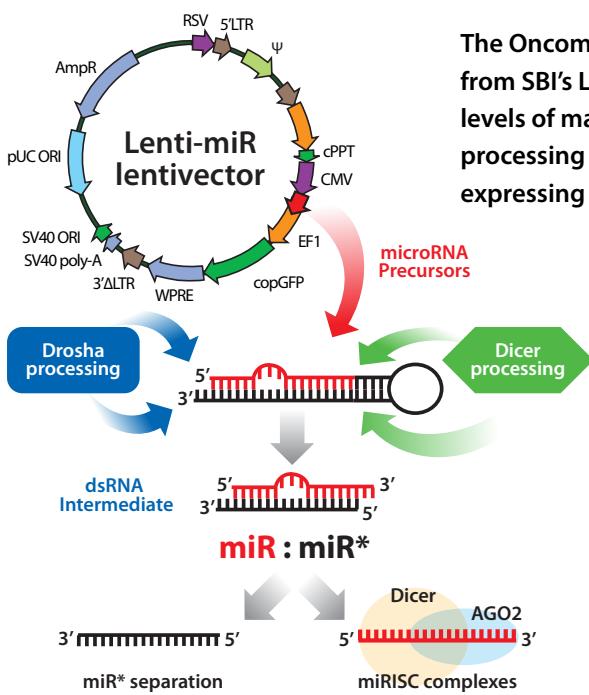


## Precursor Clone Collection

System Biosciences (SBI) has the largest commercially-available collection of microRNAs that are cloned into lentiviral vectors. SBI's constructs can be stably expressed in a wide variety of cell types, as opposed to synthetic microRNAs that can only be transiently tested in cells.

Each construct in SBI's collection consists of the native loop structure and 200-400 base pairs of upstream and downstream flanking genomic sequence. This unique feature ensures that the microRNAs expressed from SBI's constructs will be correctly processed in the cell into mature microRNAs.

## Each OncomiR Precursor Clone in the Virus Library Expresses a microRNA Involved in Cancer



The OncomiR microRNA precursors expressed from SBI's Lenti-miR vectors produce high levels of mature microRNAs via the host's processing machinery. Track positively-expressing cells using GFP.

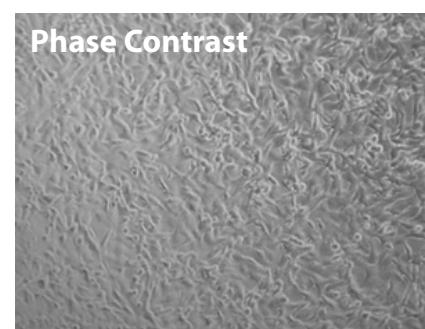
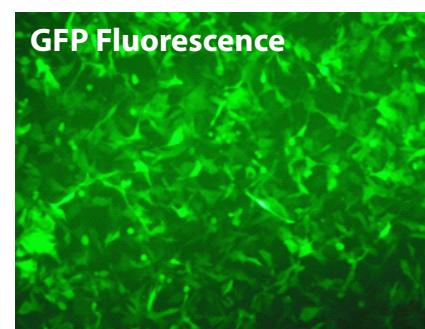
## The Power of Pooled Virus Screens

Infect with the OncomiR virus library and each cell will express a single microRNA. Identify the microRNA(s) responsible for causing the phenotypic change in your model system. The OncomiR Virus library is perfect for screening cancer stem cells.

## Highlights

- Largest collection of microRNA precursor clones available in lentivectors
  - Native microRNA context ensures accurate and robust mature microRNA expression
  - Carefully selected set of 140 Oncogenic microRNAs for focused screens
  - Confirm positively expressing cells with GFP for FACS sorting
  - Perform Cancer high-throughput screens using the OncomiR library

Track transduced cells easily  
using the built-in GFP marker



### HT1080 cells transduced with OncoMir Virus Library, MOI=5

# OncomiR™ microRNA Precursor Virus Library

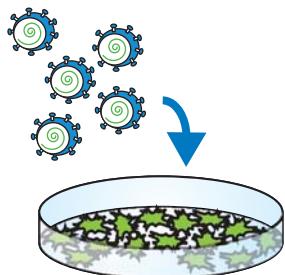
## Screen 140 Cancer microRNAs Simultaneously for Unique Oncogenic Phenotypes

SBI has carefully selected the top 140 microRNAs involved in oncogenesis and assembled the precursor clones into an effective screening tool to identify and dissect cancer signaling pathways in your model system. The OncoMir virus library is provided as a pool of high-titer lentivirus for immediate use in cell lines, stem cells and animal tissue/xenograft models.

Catalog #
PMIRHOPLVA-1
Kit Contents
<ul style="list-style-type: none"> <li>1 OncomiR virus pool aliquots &gt;10<sup>7</sup> IFUs/aliquot</li> <li>1 Negative Control virus aliquot &gt;10<sup>7</sup> IFUs/aliquot</li> <li>Primer set to identify microRNA effectors</li> </ul>

let-7a-1	let-7a-2	let-7a-3	let-7b	let-7c
let-7d	let-7e	let-7f-1	let-7f-2	let-7g
let-7i	miR-1-1	miR-7-1	miR-7-2	miR-7-3
miR-9-1	miR-10a	miR-10b	miR-15a	miR-15b
miR-16-1	miR-16-2	miR-17	miR-18a	miR-18b
miR-19a	miR-19b-2	miR-20a	miR-20b	miR-21
miR-22	miR-23a	miR-23b	miR-24 -1	miR-24 -2
miR-25	miR-26a-1	miR-26a-2	miR-26b	miR-27a
miR-27b	miR-29a	miR-29b-1	miR-29b-2	miR-29c
miR-30a	miR-30b	miR-30c-1	miR-34a	miR-92a-1
miR-92a-2	miR-93	miR-95	miR-103-1	miR-106a
miR-106b	miR-107	miR-122	miR-124-1	miR-124-2
miR-124-3	miR-125a	miR-125b-1	miR-125b-2	miR-126
miR-127	miR-128-1	miR-128-2	miR-133a-1	miR-133a-2
miR-133b	miR-134	miR-135b	miR-136	miR-137
miR-138-1	miR-138-2	miR-139	miR-140	miR-141
miR-142	miR-143	miR-144	miR-145	miR-146a
miR-150	miR-151	miR-153-1	miR-153-2	miR-154
miR-155	miR-181a-1	miR-181a-2	miR-181b-1	miR-181b-2
miR-181c	miR-181d	miR-183	miR-185	miR-188
miR-190	miR-191	miR-192	miR-194 -1	miR-194 -2
miR-195	miR-196a-1	miR-196a-2	miR-198	miR-199a-2
miR-200a	miR-200b	miR-200c	miR-202	miR-203
miR-204	miR-205	miR-206	miR-210	miR-214
miR-215	miR-218-1	miR-218-2	miR-219-1	miR-219-2
miR-221	miR-222	miR-223	miR-224	miR-296
miR-326	miR-331	miR-335	miR-372	miR-373
miR-375	miR-424	miR-425	miR-486	miR-488

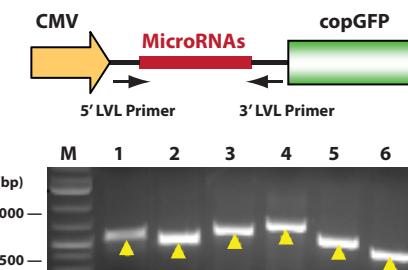
## Transduce OncomiR Virus Library



### Select for Phenotype

Tumor migration  
Drug sensitivity  
Metastatic potential  
Apoptosis

### Recover Precursors



## We Also Offer Custom Services

System Biosciences offers a wide-range of custom services to support your research, allowing you to spend less time making tools, and more time making discoveries. To learn more, visit our website at [www.systembio.com/service](http://www.systembio.com/service) or call us at 888-266-5066.