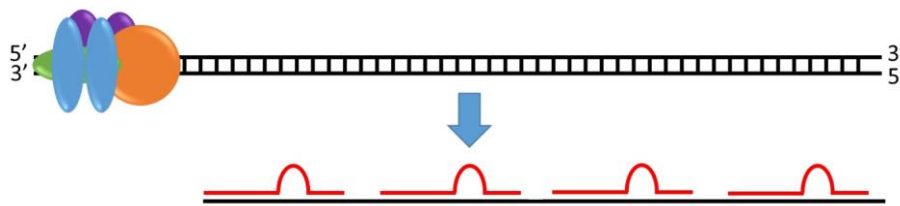
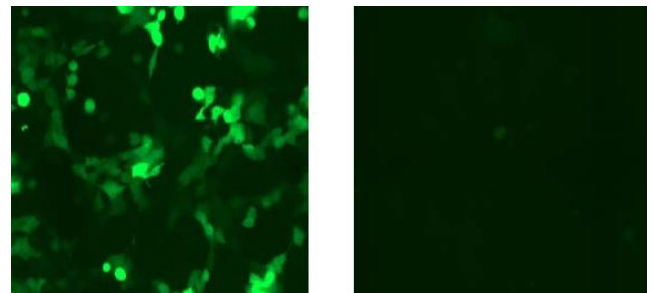


## miRNA Sponge Vector

**miRNA sponge** is a type of vector which contains multiple tandem repeats of miRNA antisense binding sites (MBS), usually downstream of a reporter gene such as GFP or luciferase. The presence of a reporter gene makes it easy to identify miRNA binding. miRNA sponge vectors have been widely used in experiments aiming to permanently inhibit miRNA function within cells.



**RGBioTech** has developed an amenable platform for construction of miRNA sponge vectors. We offer **flexible construction options** to meet various requirements of customers' projects. Whether you have special needs in **vector type, promoter, reporter system or even numbers of target miRNAs**, we can always help you for the construction.



**Figure 1.** Detection of GFP fluorescence in cells treated with control sponge vectors (left) and miRNA sponge vectors (right).

Vector Type	Promoter	Reporter	Target miRNA
<ul style="list-style-type: none"> <li>✓ Non-viral</li> <li>✓ Lentiviral</li> <li>✓ Adenoviral</li> <li>✓ AAV</li> </ul>	<ul style="list-style-type: none"> <li>✓ CMV</li> <li>✓ Custom</li> </ul>	<ul style="list-style-type: none"> <li>✓ GFP</li> <li>✓ RFP</li> <li>✓ mCherry</li> <li>✓ Luciferase</li> </ul>	<ul style="list-style-type: none"> <li>✓ One mature miRNA</li> <li>✓ Two mature miRNAs</li> <li>✓ One miRNA seed family</li> <li>✓ Two miRNA seed families</li> </ul>