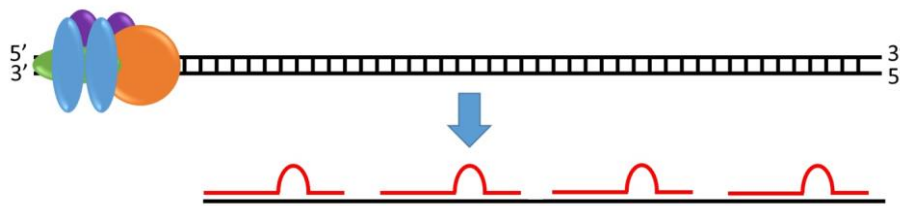


miRNA Sponge Vector

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.

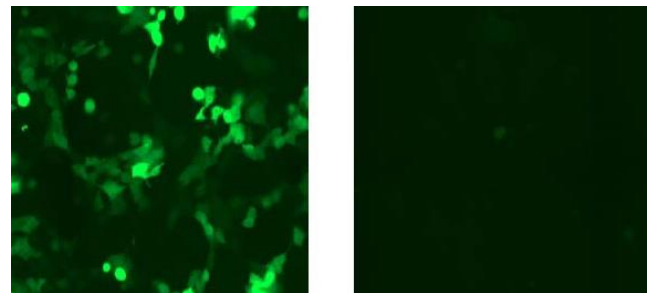


Figure 1. Detection of GFP fluorescence in cells treated with control sponge vectors (left) and miRNA sponge vectors (right).

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