

Supplementary Information

RNA-DNA Hybrid Nano-materials for Highly Efficient and Long Lasting RNA Interference effect

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Table S1. Oligonucleotide sequences for Ri-Dgel

Oligo name	Sequences
EGFP-X01	5'- <u>ACGGCAAGCUGACCCUGAAGUUCAUCUCAGATCCGTACCTACTCG</u>
BamHI-X02	5'- /5Phos/GATCCGAGTAGGTACGGATCTGCGTATTGCGAACGACTCG
BamHI-X03	5'- /5Phos/GATCCGAGTCGTTTCGCAATACGGCTGTACGTATGGTCTCG
EGFP-BamHI-X04	5'- /5Phos/GATCCGAGACCATACGTACAGC <u>AGAUGAACUUCAGGGUCAGCUUGC</u> <u>CGU</u>
EGFP-X01-rev	5'- <u>CGAGTAGGTACGGATCTGAGAUGAACUUCAGGGUCAGCUUGCCGU</u>
EGFP-R01	5'- <u>ACGGCAAGCUGACCCUGAAGUUCAUCU</u>
EGFP-R04	5'- <u>AGAUGAACUUCAGGGUCAGCUUGCCGU</u>

*Underlines: ribonucleic acid

Table S2. Primer sequences for RT-qPCR of siRNA and GFP mRNA

Primer name	Primer sequences	Purpose
RT-GFP-AS2	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACAC GGCAAG	siRNA quantificati on
GFP-AS2	5'- GCGAGATGAACTTCAGGGTCAG	
RT_RNU6	5'- GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACAT CGTTCC	
RNU6-F	5'- GGTGCTCGCTTCGGCAGCACA	
Universal primer	5'- GTGCAGGGTCCGAGGT	
EGFP_92F	5'- GGCCACAAGTTCAGCGTGTC	mRNA quantificati on
EGFP_217R	5'- TGAAGCACTGCACGCCGTAG	
GAPDH_F	5'- GATGCCCCCATGTTTGTGA	
GAPDH_R	5'- TTTGGCTAGAGGAGCCAAGCA	

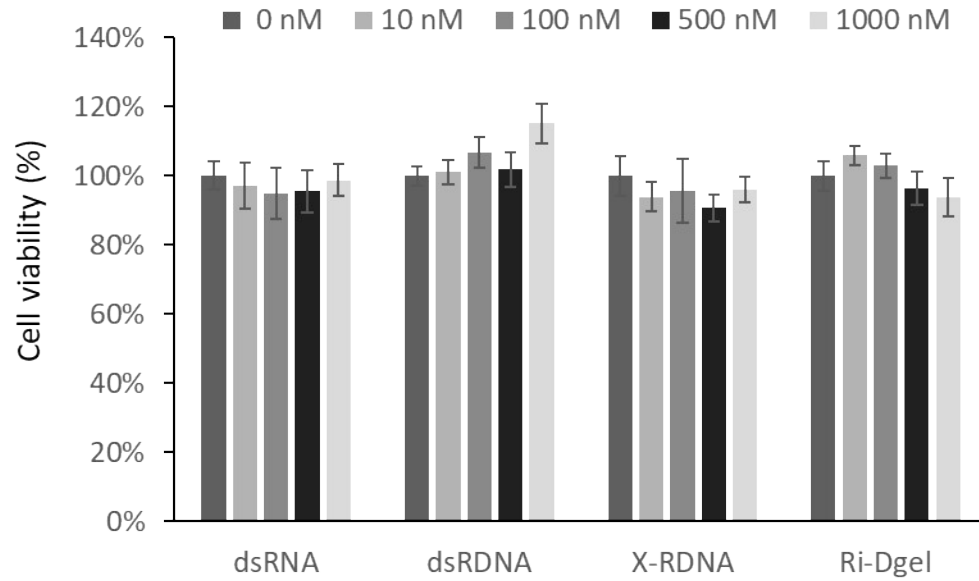


Figure S1. Viability test of dsRNA treated cells. MDCK/GFP cells were treated with various concentrations of each format of dsRNA and the viability of the cells was measured with CellTiter-Glo Luminescent Cell Viability Assay. Error bars refer to standard deviations from three replicates.