

# AteloGene<sup>®</sup>

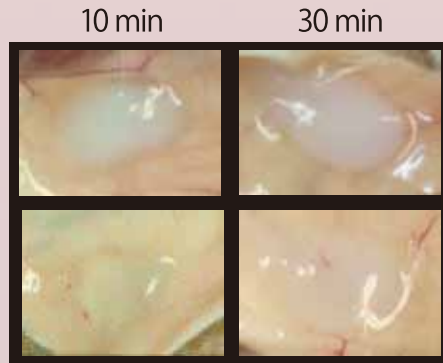
## Local Use "Quick Gelation"

### Quick gelation at injection sites

Comparison of gelation time with mouse subcutaneous tissue.

**AteloGene<sup>®</sup> QG & siRNA**

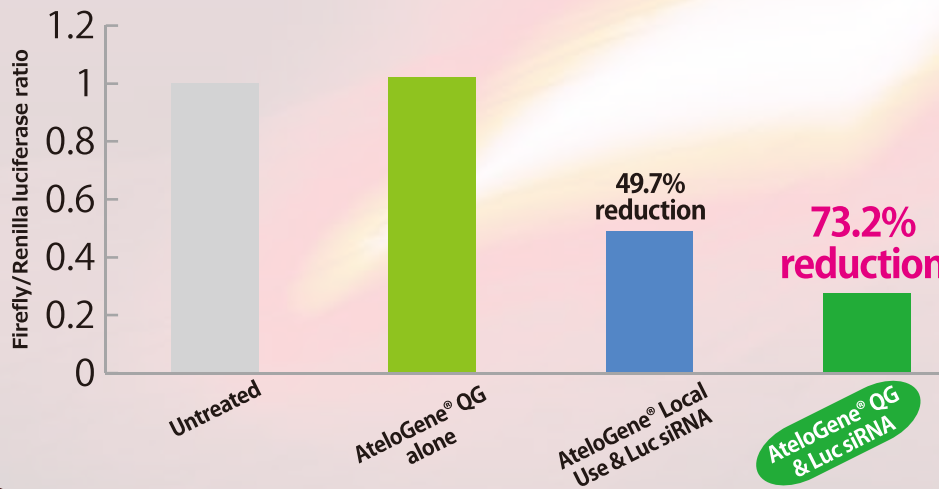
**AteloGene<sup>®</sup> Local Use & siRNA**



**AteloGene<sup>®</sup> Local Use "Quick Gelation" (AteloGene<sup>®</sup> QG) and AteloGene<sup>®</sup> Local Use** were mixed with siRNA respectively, and were observed for gelation after administration in mouse subcutaneous tissue. Compared with **AteloGene<sup>®</sup> Local Use**, results for **AteloGene<sup>®</sup> QG** showed a rapider gelation after administration.

### Efficient Delivery

Luciferase siRNA administration in a subcutaneous tumor model.

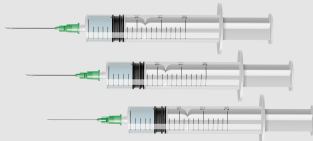


**AteloGene<sup>®</sup> QG** and **AteloGene<sup>®</sup> Local Use** were mixed with Luciferase siRNA (Luc siRNA) respectively, and evaluated for the luminescence of Luciferase after administration in a Dual-luciferase expressed subcutaneous tumor model. Result with **AteloGene<sup>®</sup> QG** showed higher inhibition of Luciferase gene expression than results compared to **AteloGene<sup>®</sup> Local Use**.

### Increased Volume

Increased number of administrations.

**AteloGene<sup>®</sup> QG**



For example, 1 kit may be used for experiments as follows

n=5; 4 groups

OR

n=7; 3 groups

...etc.

- None/PBS administration group
- AteloGene<sup>®</sup> QG alone
- AteloGene<sup>®</sup> QG & control nucleic acid
- AteloGene<sup>®</sup> QG & target nucleic acid

- None/PBS administration group
- AteloGene<sup>®</sup> QG & control nucleic acid
- AteloGene<sup>®</sup> QG & target nucleic acid

15 times of mouse administration per kit\* (5 times more than previous product)

\*Calculated by 200  $\mu$ L/ injection. Depending on target tissues, number of administrations may be over 15 times.

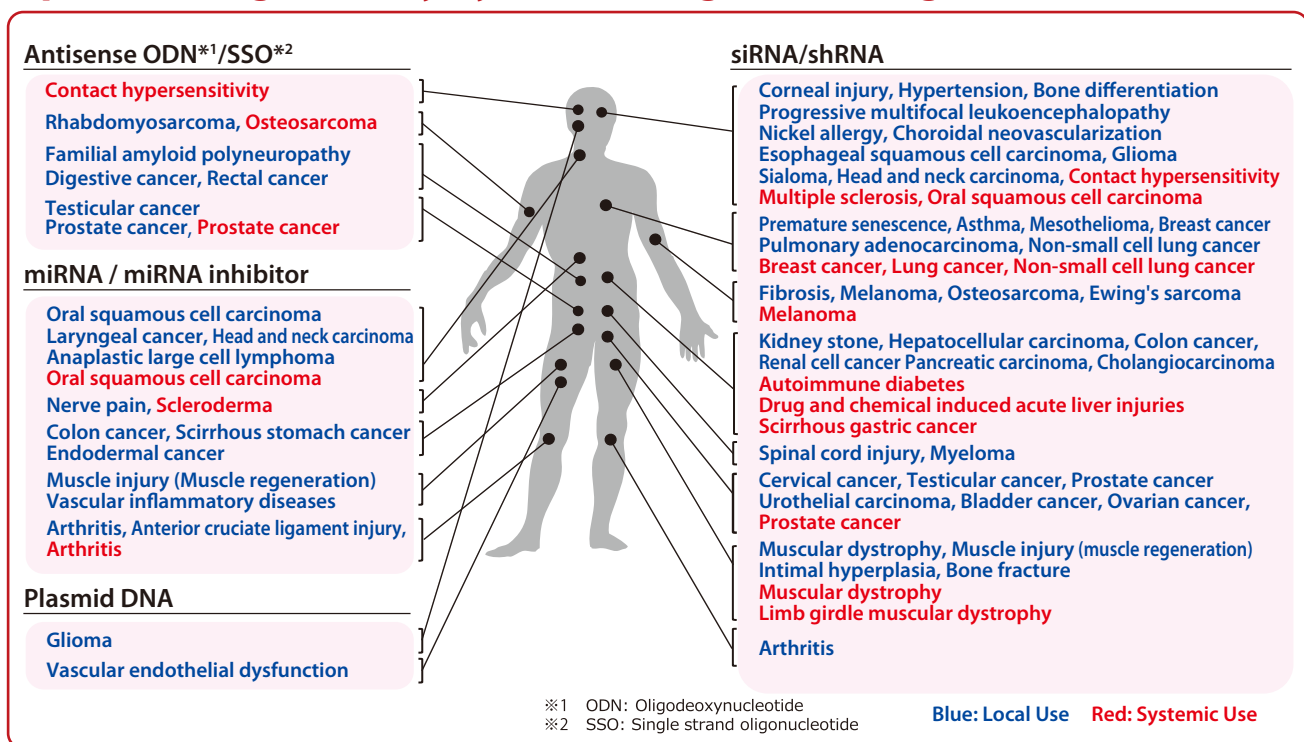


## Features of AteloGene®

- Forms complexes with nucleic acid, and protects nucleic acid from degradation.
- Inhibits the immune response against double stranded RNA.
- Limited expression changes of genes induced by toxicity, and a distinct introduction effect of nucleic acid.
- Choices between [Local Use] for controlled release of nucleic acid from gel, and [Systemic Use] for whole body delivery without gel formation.

Atelocollagen, the main component of AteloGene®, forms complexes suitable for *in vivo* transfection by mixing with appropriate concentration and ratio of nucleic acid. Complexes repress the degradation of nucleic acid caused by nuclease, and are effectively introduced into cells of tissues *in vivo*. Both [AteloGene® Local Use] and [AteloGene® Local Use Quick Gelation] for localized administration have a controlled release effective of nucleic acid at the administration site, because of its gelation capability *in vivo*. [AteloGene® Systemic Use] for systemic administration, on the other hand, does not gelate and can deliver nucleic acid effectively via tail vein injection into the bloodstream throughout the whole body.

## Reported Drug Delivery Systems using atelocollagen



## Ordering information

Description	Cat. No.	Quantity
AteloGene® Local Use Quick Gelation	KOU-1492	1 Kit (Sufficient for 15 injections*)

## Related Products

AteloGene® Local Use	KOU-1392	1 Kit (Sufficient for 10 injections*)
AteloGene® Systemic Use	KOU-1393	1 Kit (Sufficient for 10 injections*)

\*Calculated by 200 μL/injection. Depending on target tissue, administration may be over 10 and 15 times respectively.



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