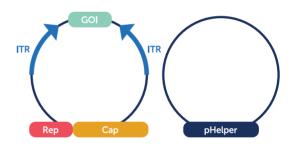


## The Dual-Plasmid system resolves some of the key manufacturing challenges faced by AAV developers

Our team of experts at Oxford Biomedica have developed a proprietary 'plug and play' Dual-Plasmid system for transient transfection for effective AAV-based gene therapies resulting in:

- √ Higher titre
- √ High product quality
- ✓ Proven scalability

#### Oxford Biomedica's Dual Plasmid System



Our novel Dual-Plasmid system optimizes performance and quality



## Advantages of our Dual-Plasmid system include:



Increased yield and productivity Titers up to 1E15 vg/L



Improved capsid ratio Improved full vector packaging > 50% full capsids out of the bioreactor and 90% of full capsid in final product



Just two plasmids
Uses only two plasmids
rather than three,
reducing costs



Broadly applicable
Applicable to any GOI
and AAV serotype or
capsid variant



Easy to switch

No process change
is required when
switching from triple to
Dual-Plasmid

## An optimised configuration to outperform traditional triple-plasmid system

#### Traditional tripleplasmid system

GOI, Helper and Rep Cap







# Oxford Biomedica Dual-Plasmid system

GOI + Rep Cap and Helper





Dual-Plasmid System delivers
Same sequence, different

Same sequence, different configuration

Performance and quality

Consistency, comparability and scalability

Client benefits
Improved downstream
performance

High productivity and improved safety profile

Reliable technology proven in GMP manufacturing



- ✓ No change in RepCap and GOI (Gene of Interest) DNA sequences, and the pHelper plasmid is the same: the conversion from the triple-plasmid to the Dual-Plasmid system is straightforward
- √ The Dual-Plasmid system, together with our proprietary transfection process increases bioreactor vg titer up to 10-fold over current industry standard. The process has been successfully scaled up to 2,000L and has been proven to deliver up to 1.5E17 total vgs at 500L scale





We are a quality and innovation-led CDMO with over 25 years of experience, committed to helping our clients deliver cell and gene therapies that transform patients' lives.

We offer end-to-end capabilities, from plasmid design and optimisation, to clinical and commercial GMP manufacturing, accompanied by robust control systems, analytical methods and deep regulatory knowledge.

Let's do something life-changing together For more information please contact:

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