

# Gene Therapy Solution

## Product Catalogue

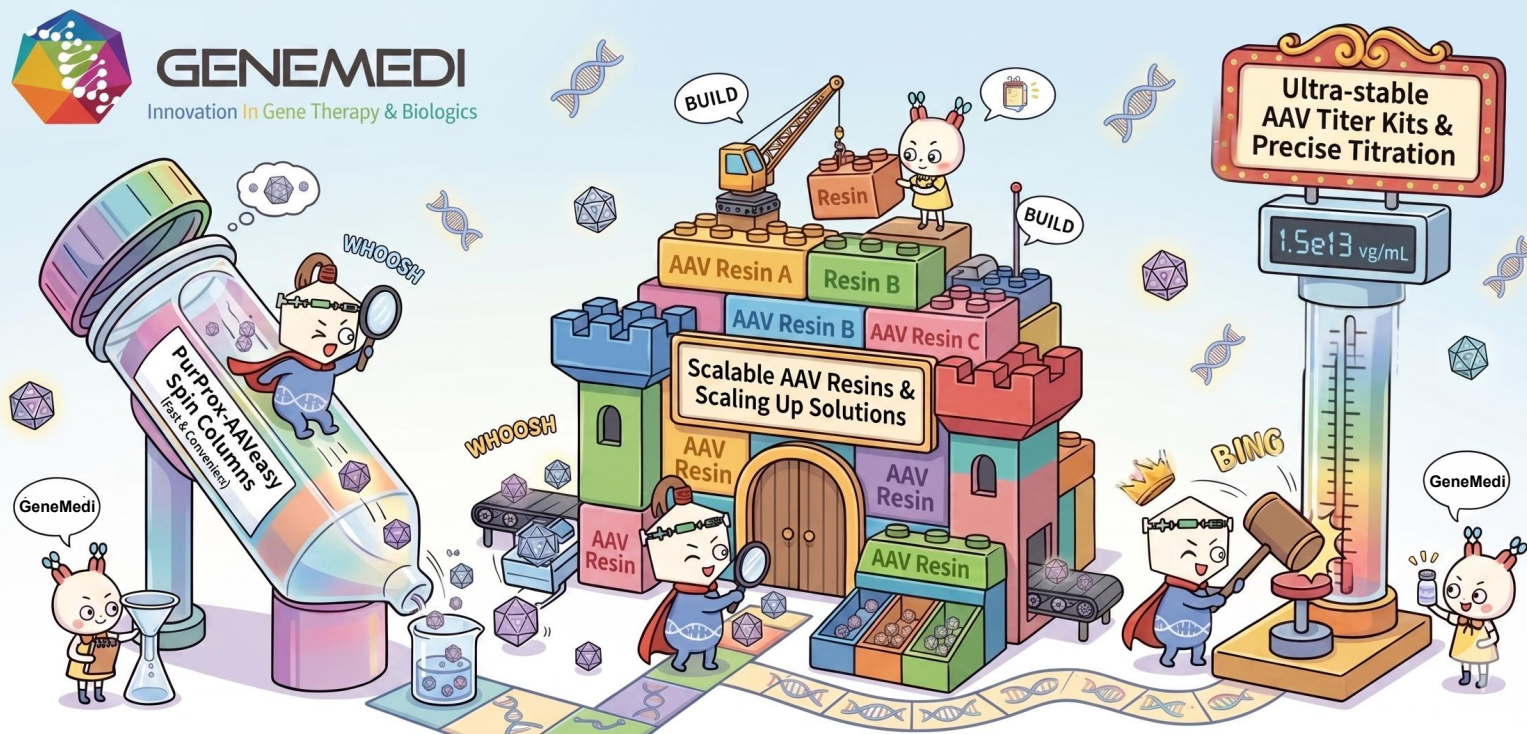
### PurProX® : AAV Purification Solution

- PurProX® AAVPure Affinity Resin
- PurProX® AAVPure Pre-packed Affinity Column
- PurProX® AAVEasy rapid-to-purify Spin Column
- PurProX® AAVFull Enrichment Kit

### TrueX® : AAV Titration Solution

- TrueX® ONE Universal AAV Titration Kit (ELISA)
- TrueX® AAV2/5/6/8/9 Titration Kit

Capsid-X™: Purify and Quantify Your Novel AAV Capsids



**GENEMEDI**  
Innovation In Gene Therapy & Biologics



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## *Part 1 Solution for Gene Therapy Development*

### PurProX®

PurProX® AAVPure Affinity Resin

PurProX® AAVPure Pre-packed Affinity Column

PurProX® AAVEasy rapid-to-purify Spin Column

PurProX® AAVFull Enrichment Kit



### TrueX®

TrueX®-ONE Universal AAV Titration Kit (ELISA)

TrueX® - AAV2/5/6/8/9 Titration Kit

### **Capsid-X™**

Purify and Quantify Your Novel AAV Capsids

### Vector:

INDKan™ Industry-Used AAV Vector System

GM Multi-Serotype AAV Vector System

GM Promise™ ORF Viral Library

## *Part 2 Platform & Service*

[GVC QbD Platform for Viral vectors Processes Development & Manufacturing](#)

[G-NEXT™ Novel AAV discovery and rational evolution platform](#)

[TransEx™ DNA Rapid Preparation Service](#)

## PurProX® AAV Purification Solution

### PurProX® AAVPure Affinity Resin

Cat.No: GMV-PurProX-AAVPure-U-1/2



GeneMedi PurProX® AAVPure Affinity Resin provide high-performance AAV purification.  
U-1: resin broadly targets serotypes like **AAV2/5/6/8/DJ/7m8** (with weaker binding for AAV9 compared with other AAV serotypes)  
U-2: is specialized for high-affinity **AAV9** binding.

### PurProX® AAVPure Pre-packed Affinity Column

Cat.No: GMV-PurProX-AAVPure-U-1/2-P



GeneMedi's PurProX® AAVPure Pre-packed Affinity Column provide a convenient, ready-to-use solution for researchers evaluating our AAV purification resin or performing small-scale AAV vector purification.

### PurProX® AAVEasy rapid-to-purify Spin Column

Cat.No: GMV-PurProX-AAVEasy-U-1/2-10T



Based on **PurProX® AAVPure Affinity Resin**, AAVEasy rapid-to-purify Spin Columns provide a rapid, equipment-free solution for small-scale AAV purification, delivering high-purity viral vectors in just 30 minutes.

## Product list for PurProX® AAV Purification Solution

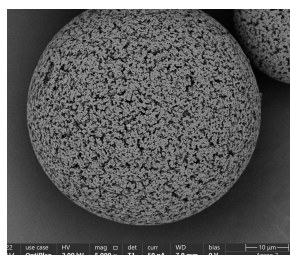
| Product Type           | Cat No                      | Product Name                                   | Serotype                                                                            | Size                                        |
|------------------------|-----------------------------|------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|
| AAV Affinity Resin     | GMV-PurProX-AAVPure-U-1     | PurProX® AAVPure Affinity Resin-1              | Versatile resin for high-capacity, multi-serotype binding (e.g., AAV2/5/6/8/DJ/7m8) | 10 mL, 25 mL, 50 mL, 250 mL, 1 L, 5 L, 10 L |
| AAV Affinity Resin     | GMV-PurProX-AAVPure-U-2     | PurProX® AAVPure Affinity Resin-2              | Optimized for AAV9 and variants like AAV-PHP series                                 | 10 mL, 25 mL, 50 mL, 250 mL, 1 L, 5 L, 10 L |
| Pre-packed Column      | GMV-PurProX-AAVPure-U-1-P   | PurProX® AAVPure Pre-packed Column-1           | Versatile resin for high-capacity, multi-serotype binding (e.g., AAV2/5/6/8/DJ/7m8) | 1mL, 5mL                                    |
| Pre-packed Column      | GMV-PurProX-AAVPure-U-2-P   | PurProX® AAVPure Pre-packed Column-2           | Optimized for AAV9 and variants like AAV-PHP series                                 | 1mL, 5mL                                    |
| Spin Column (10 tests) | GMV-PurProX-AAVEasy-U-1-10T | PurProX® AAVEasy rapid-to-purify Spin Column-1 | Versatile resin for high-capacity, multi-serotype binding (e.g., AAV2/5/6/8/DJ/7m8) | 10T                                         |
| Spin Column (10 tests) | GMV-PurProX-AAVEasy-U-2-10T | PurProX® AAVEasy rapid-to-purify Spin Column-2 | Optimized for AAV9 and variants like AAV-PHP series                                 | 10T                                         |



## PurProX® AAVPure Affinity Resin



- High-efficiency and reproducibility
- Specificity for intact AAV particle
- >3e14 VP/mL resin
- Lower cost

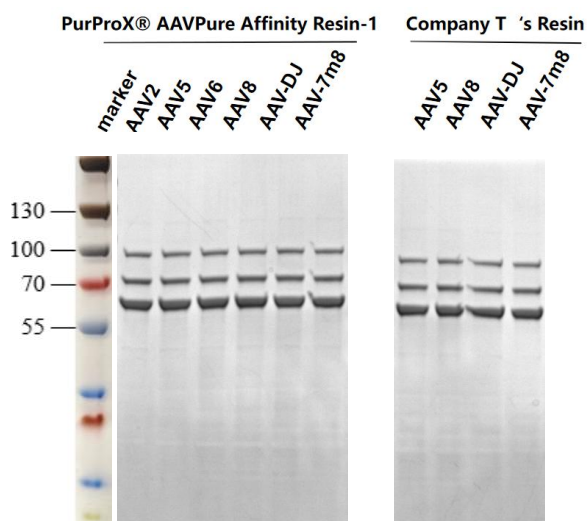


- Custom ~50 µm beads
- Maximized mass transfer
- High binding capacity
- Supports high flow rates
- Directional ligand coupling

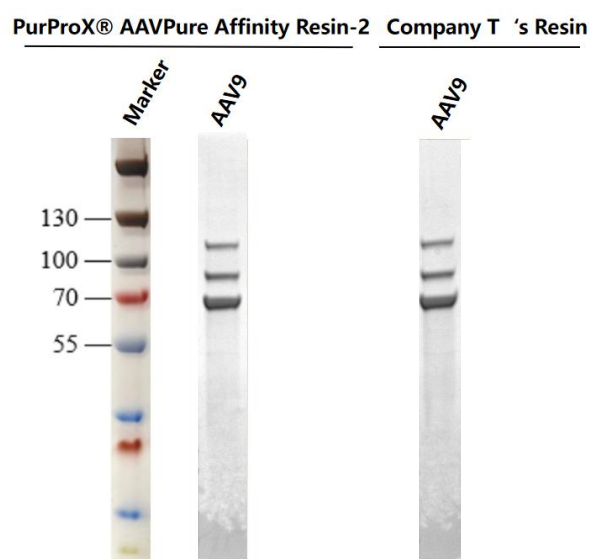
| Serotype | Initial AAV (vg) | Purified AAV (vg) | Recovery Rate (%) |
|----------|------------------|-------------------|-------------------|
| AAV2     | 5.72E+12         | 5.19E+12          | 90.73             |
| AAV5     | 3.36E+13         | 3.13E+13          | 93.15             |
| AAV6     | 8.28E+12         | 7.73E+12          | 93.36             |
| AAV8     | 1.33E+13         | 1.25E+13          | 93.98             |
| AAV9     | 1.45E+13         | 1.37E+13          | 94.48             |

### PurProX® AAVPure Affinity Resin-1 for AAV Serotype 2, 5, 6,8, DJ, and 7m8 Purification

### PurProX® AAVPure Affinity Resin-2 Designed for AAV9 Purification



The PAGE of purified AAVs by PurProX® AAVPure Affinity Resin-1 (GMV-PurProX-AAVPure-U-1). Company T's Resin is used as the control.



The PAGE of purified AAV9 by PurProX® AAVPure Affinity Resin-2 (GMV-PurProX-AAVPure-U-2). Company T's Resin is used as the control.



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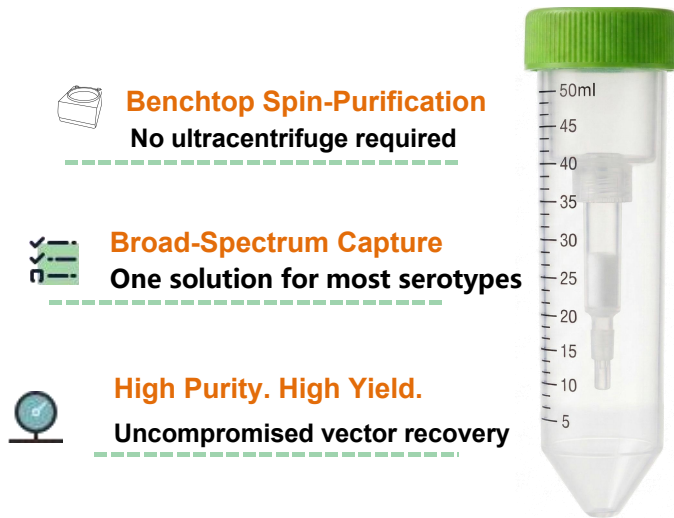
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[Sample Request](#)

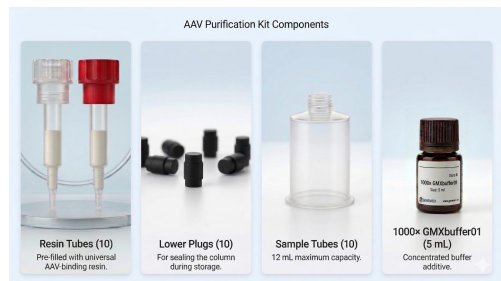
## PurProX® AAVEasy rapid-to-purify Spin Column

Cat.No: GMV-PurProX-AAVEasy-U-1/2-10T



**30 Rapid 30-Min Protocol**  
Hassle-free AAV processing

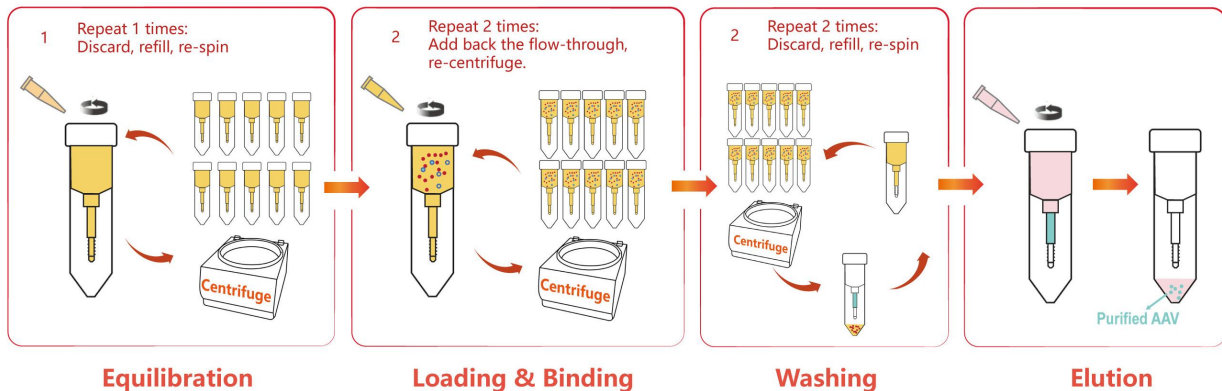
**High throughput**  
Process dozens of samples simultaneously



## PurProX® AAVEasy purification process

Equilibration/Loading Buffer      Elution Buffer

● AAV    ● Other particles



Sample request



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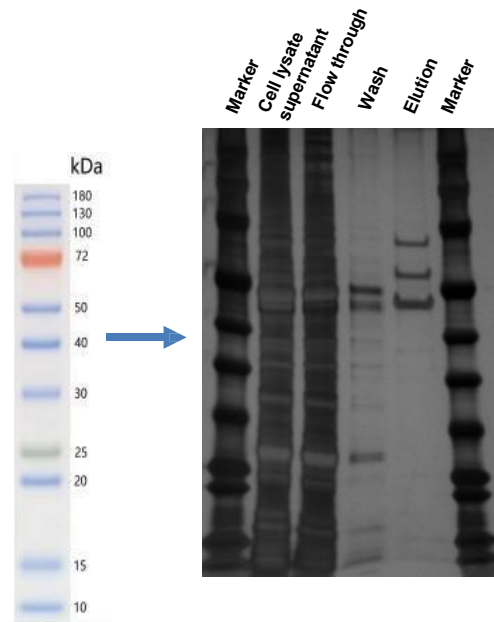
[Sample Request](#)

## PurProX® AAVEasy rapid-to-purify Spin Column

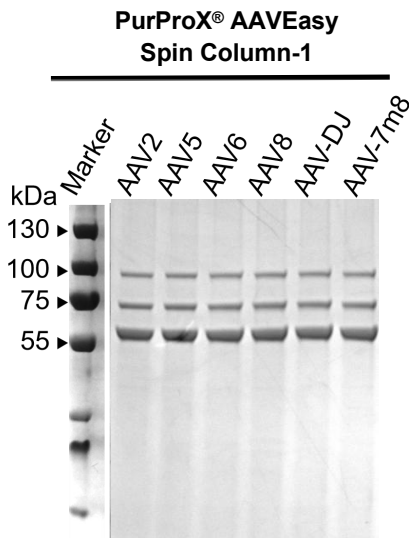
### AAV5 Purification by PurProX® AAVEasy

Handling Time: **29 min**

Recovery Rate: **95.43%**

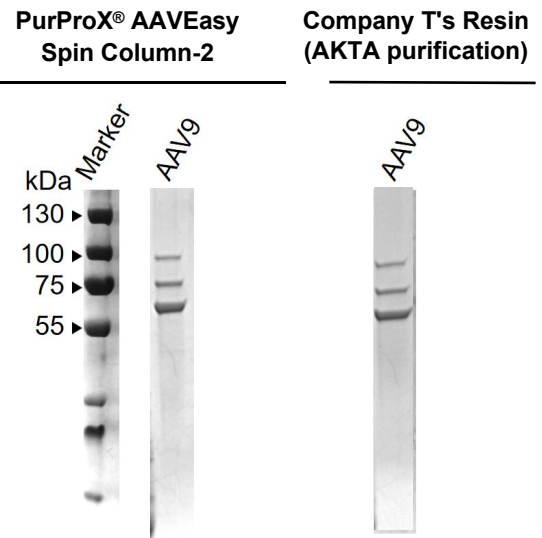


### PurProX® AAVEasy Spin Column-1 for AAV Serotype 2, 5, 6, 8, DJ, and 7m8 Purification



The PAGE of purified AAVs by PurProX® AAVEasy Spin Column-1 (GMV-PurProX-AAVEasy-U-1).

### PurProX® AAVEasy Spin Column-2 Designed for AAV9 Purification

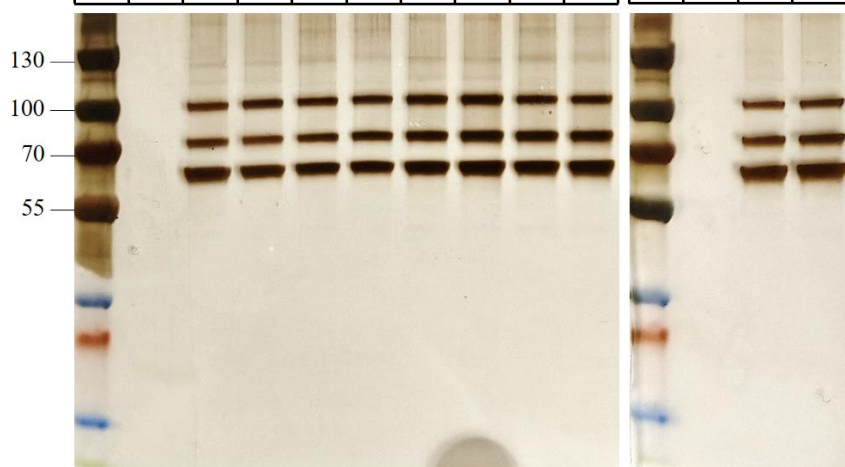


The PAGE of purified AAVs by PurProX® AAVEasy Spin Column-2 (GMV-PurProX-AAVEasy-U-2). Company T's Resin (AKTA purification) is used as the control.

## PurProX® AAVEasy rapid-to-purify Spin Column

### Exceptional AAV5 Purification Performance of PurProX® AAVEasy Spin Column-1 Over 5 Consecutive Regeneration Cycles

|   |  | 1       |     | 2        |     | 3       |     | 4        |     |   |  | 5       |     |
|---|--|---------|-----|----------|-----|---------|-----|----------|-----|---|--|---------|-----|
|   |  | AAV5-20 |     | AAV5-130 |     | AAV5-20 |     | AAV5-130 |     |   |  | AAV5-20 |     |
| M |  | 1-1     | 2-1 | 1-2      | 2-2 | 1-3     | 2-3 | 1-4      | 2-4 | M |  | 1-5     | 2-5 |

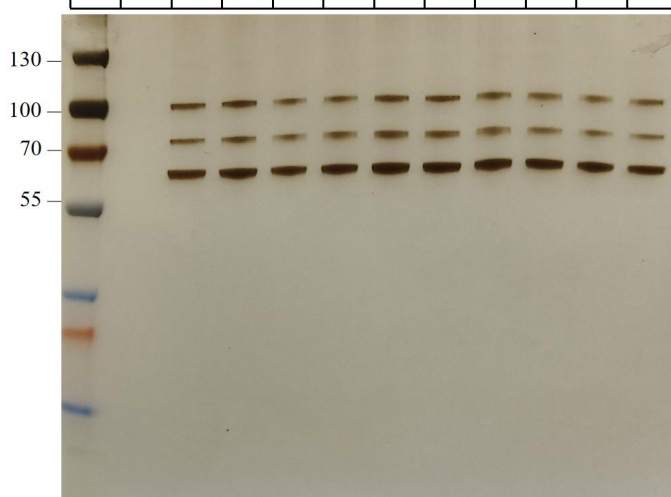


➤ **Results:** Silver staining results demonstrate that the AAV5 sample purified during the 5th use still exhibits distinct and intact VP1/VP2/VP3 capsid protein bands with minimal host cell protein impurities.

➤ **Conclusion:** The PurProx AAVEasy U1 spin column maintains robust purification performance even after 5 consecutive cycles of purification and regeneration.

### High Consistency and Stability Analysis of AAV9 Purification Across 5 Regeneration Cycles Using PurProX® AAVEasy Spin Column-2

|   |  | 1       |     | 2        |     | 3       |     | 4        |     | 5       |     |
|---|--|---------|-----|----------|-----|---------|-----|----------|-----|---------|-----|
|   |  | AAV9-20 |     | AAV9-130 |     | AAV9-20 |     | AAV9-130 |     | AAV9-20 |     |
| M |  | 3-1     | 4-1 | 3-2      | 4-2 | 3-3     | 4-3 | 3-4      | 4-4 | 3-5     | 4-5 |



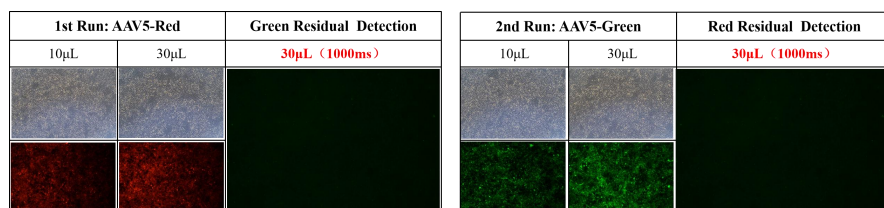
➤ **Results:** The high purity of the eluted products and the sharp capsid protein bands indicate that the U2 spin column can stably and efficiently recover high-quality AAV9 vectors across multiple reuses.

➤ **Conclusion:** The PurProx AAVEasy U2 spin column exhibits exceptional reusability. After 5 consecutive regeneration cycles, the AAV9 purification efficacy of the U2 column shows no noticeable decline.

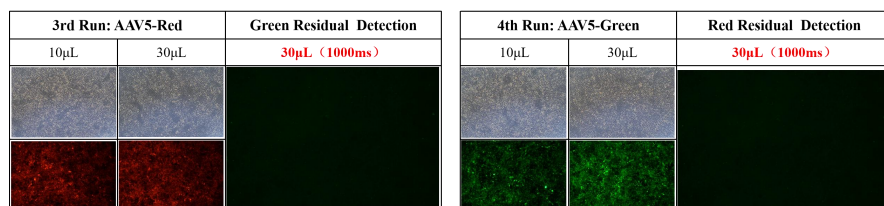


## PurProX® AAVEasy rapid-to-purify Spin Column

### Elimination of Carryover / Cross-Contamination in Alternating Fluorescence Purifications Across 5 Regeneration Cycles Using PurProX® AAVEasy Spin Columns

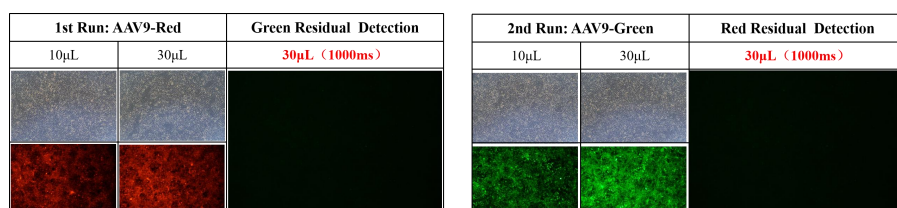
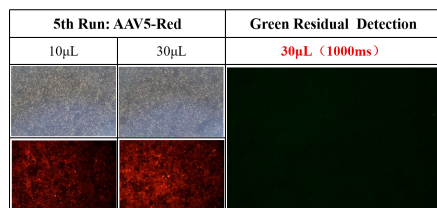


**U1 Spin Column (AAV5 alternating red/green fluorescent purification)**

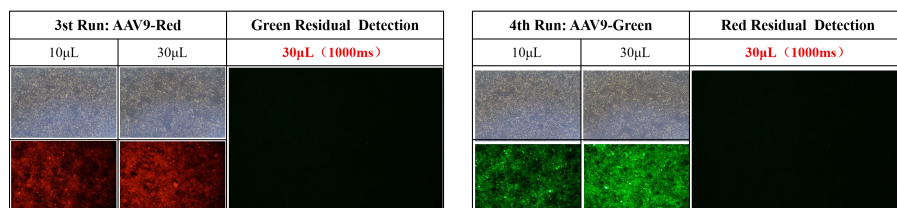


➤ **Results:** Consecutive purification runs using alternating red and green fluorescent AAV5 vectors showed complete absence of fluorescence carryover from previous runs.

Fluorescence detection confirmed that each eluted fraction contained purely the target fluorescently tagged vector of the current run without cross-contamination.



**U2 Spin Column (AAV9 alternating red/green fluorescent purification)**



➤ **Results:** Similarly, sequential purification of alternating red and green fluorescent AAV9 vectors across 5 regeneration cycles demonstrated zero detectable cross-contamination or residual AAV from prior purification steps.

➤ **Conclusion:** The regeneration and cleaning protocol for PurProX® AAVEasy Spin Columns (both U1 and U2) thoroughly eliminates residual AAV capsids between uses, guaranteeing zero carryover and preventing cross-contamination during repeated multi-AAV purifications across 5 consecutive cycles.



## PurProX® AAVEasy rapid-to-purify Spin Column

### Accelerated Stability Test (37°C) of PurProX® AAVEasy Spin Columns: Sustained High Recovery and Capsid Purity

#### Overview:

To evaluate the long-term reliability of PurProX® AAVEasy rapid-to-purify Spin Column, an accelerated stability test was conducted. The spin columns were incubated at 37°C for a continuous period of 4 weeks. Purification performance was evaluated at Week 1, Week 2, and Week 4 (U1 for AAV5 and U2 for AAV9).

Table: AAV Spin Column Stability Test (37°C), Purified AAV5

| Time   | sample      | KIT capsids/ml | Pre-dilution capsids/ml | Pre-dilution * V capsids | recovery rate-% |
|--------|-------------|----------------|-------------------------|--------------------------|-----------------|
| Week 1 | AAV5-S-100  | 5.51E+10       | 5.51E+12                | 5.51E+13                 | 100             |
|        | AAV5-T-10   | 2.85E+10       | 2.85E+11                | 2.85E+12                 | 5.17            |
|        | AAV5-E-1000 | 3.52E+10       | 3.52E+13                | 3.85E+13                 | 69.83           |
| Week 2 | AAV5-S-100  | 5.43E+10       | 5.43E+12                | 5.43E+13                 | 100             |
|        | AAV5-T-10   | 2.46E+10       | 2.46E+11                | 2.46E+12                 | 4.53            |
|        | AAV5-E-1000 | 3.72E+10       | 3.72E+13                | 4.07E+13                 | 74.88           |
| Week 4 | AAV5-S-100  | 2.37E+10       | 2.37E+12                | 2.37E+13                 | 100.00          |
|        | AAV5-T-10   | 1.31E+10       | 1.31E+11                | 1.31E+12                 | 5.54            |
|        | AAV5-E-1000 | 1.84E+10       | 1.84E+13                | 1.98E+13                 | 83.56           |

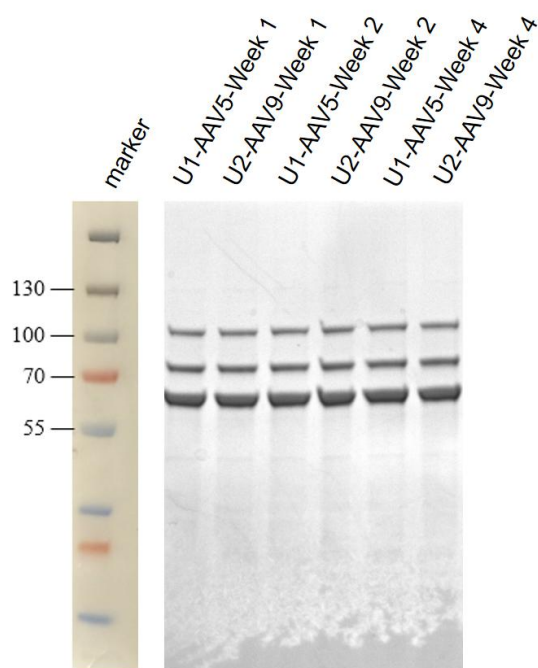


Table: AAV Spin Column Stability Test (37°C), Purified AAV9

| Time   | sample      | KIT capsids/ml | Pre-dilution capsids/ml | Pre-dilution * V capsids | recovery rate-% |
|--------|-------------|----------------|-------------------------|--------------------------|-----------------|
| Week 1 | AAV9-S-1000 | 4.49E+09       | 4.49E+12                | 4.49E+13                 | 100             |
|        | AAV9-T-1000 | 2.10E+09       | 2.10E+12                | 2.10E+13                 | 46.77           |
|        | AAV9-E-5000 | 4.09E+09       | 2.05E+13                | 2.41E+15                 | 53.78           |
| Week 2 | AAV9-S-1000 | 4.46E+09       | 4.46E+12                | 4.46E+13                 | 100             |
|        | AAV9-T-1000 | 2.32E+09       | 2.32E+12                | 2.01E+15                 | 45.02           |
|        | AAV9-E-5000 | 3.64E+09       | 1.82E+13                | 2.30E+15                 | 51.6            |
| Week 4 | AAV9-S-1000 | 4.13E+09       | 4.13E+12                | 4.13E+13                 | 100             |
|        | AAV9T-1000  | 1.16E+09       | 1.16E+12                | 1.99E+15                 | 48.09           |
|        | AAV9-E-5000 | 3.06E+09       | 1.53E+13                | 2.15E+15                 | 52.01           |

#### Results:

- **Robust Viral Genome Recovery:** Quantitative analysis demonstrates that the binding capacity of the resin remains exceptionally stable under thermal stress. After 1, 2, and 4 weeks at 37°C, the columns maintained a consistently high recovery rate for AAV5 and AAV9. There was no significant degradation in column performance over time.
- **Preserved Capsid Integrity & High Purity:** PAGE analysis of the purified AAV5 and AAV9 vectors showed highly distinct VP1, VP2, and VP3 bands across all time points. The results indicate that the spin columns consistently yield high-purity rAAV particles without inducing aggregation or degradation, even after the columns were subjected to prolonged 37°C exposure.

#### Conclusion:

GeneMedi's PurProX® AAVEasy rapid-to-purify Spin Column exhibit exceptional thermal stability. The accelerated test at 37°C for 4 weeks confirms that the resin matrix is highly robust, ensuring an extended shelf-life and consistent, reproducible AAV purification. Researchers can rely on these columns for maximum recovery and purity, even under fluctuating shipping.



## PurProX® AAVFull Enrichment Kit — Fuss-free. Full capsids.



**PurProX® AAVFull empowers you to effortlessly maximize full-capsid ratio** with GeneMedi's seamless Anion Exchange (AEX) chromatography Technology.

- **Convenient Syringe Format**

- Rapid, hassle-free handling using everyday lab tools.

- **Targeted Clearance**

- Specifically eliminates empty capsids to yield premium, ultra-pure AAV vectors.

- **Ultracentrifuge-Free**

- Achieve maximum full-capsid ratios right on your benchtop.

### Product list for PurProX® AAVFull Enrichment Kit

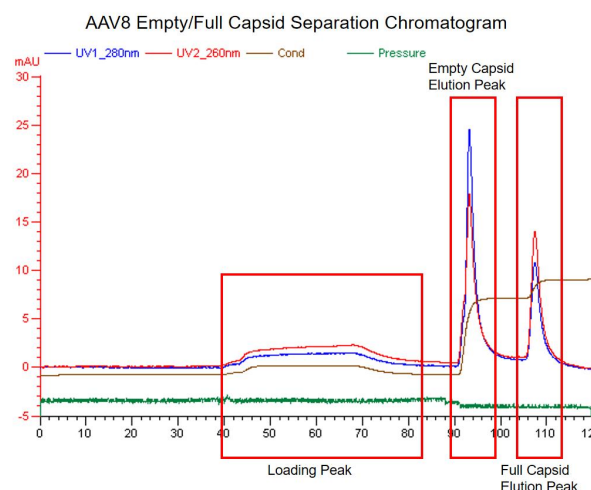
| Cat No,                 | Product Name                    | Feature                                           |
|-------------------------|---------------------------------|---------------------------------------------------|
| GMV-PurProX-AAVFull-U-1 | PurProX® AAVFull Enrichment Kit | High Binding Capacity: $2-5 \times 10^{13}$ VP/mL |

### Key Features:

•**Targeted Full Capsid Enrichment:** Leverages Anion Exchange (AEX) chromatography principles to exploit subtle charge differences between empty and full capsids, effectively retaining empty particles while allowing full vectors to flow through.

•**Seamless Benchtop Integration:** Designed in a standard syringe/spin filter format to directly process AAVEasy eluents. Achieves advanced polishing in minutes without the need for complex FPLC systems.

•**Predictable Process Homology:** The membrane matrix and ligand density are rigorously calibrated to simulate industrial Q-Membrane performance, ensuring your benchtop data accurately predicts large-scale manufacturing outcomes.



The AAV8 chromatogram demonstrates that this enrichment kit efficiently achieves separation of empty and full capsids, ensuring a final yield of highly pure AAV vectors with a high full-capsid ratio.



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## TrueX® AAV Titration & Quantification Solution



### TrueX® - ONE Universal AAV Titration Kit (ELISA)

Cat.No: GMV-TrueX-ELISA-U-1

GeneMedi's TrueX® - ONE Universal AAV Titration Kit represents a breakthrough in AAV vector quantification, offering researchers unparalleled convenience for multi-serotype detection in a single ELISA. This innovative kit is specifically designed to simultaneously detect and quantify major AAV serotypes (AAV2, 5, 6, 8, and 9) without the need for serotype-specific reagents.



### TrueX® - AAV Titration Kit (ELISA)

Cat.No: GMV-TrueX-ELISA-2/5/6/8/9-1

GeneMedi's TrueX® AAV Titration & Quantification Solution offers a highly sensitive and robust ELISA-based platform designed for the precise measurement of intact Adeno-Associated Virus (AAV) capsids. Accurate titration is a critical quality attribute in gene and cell therapy development.

The TrueX® series provides researchers and biomanufacturers with a reliable, standardized method to quantify AAV viral physical titers, ensuring consistency from early-stage discovery through to large-scale biomanufacturing.

## Product list for TrueX® AAV Titration & Quantification Solution

| Product Type | Cat No                    | Product Name                                                              | Size               |
|--------------|---------------------------|---------------------------------------------------------------------------|--------------------|
| Universal    | GMV-TrueX-ELISA-U-1-96-NS | TrueX®-ONE Universal AAV Titration AAV Titration Kit (ELISA, No Standard) | 1 plate (96 wells) |
| Standard     | GMV-TrueX-ELISA-AAV2-STD  | AAV2 Standard, 1.0E+11 capsids/ml                                         | 120uL              |
| Standard     | GMV-TrueX-ELISA-AAV5-STD  | AAV5 Standard, 1.0E+11 capsids/ml                                         | 120uL              |
| Standard     | GMV-TrueX-ELISA-AAV6-STD  | AAV6 Standard, 1.0E+11 capsids/ml                                         | 120uL              |
| Standard     | GMV-TrueX-ELISA-AAV8-STD  | AAV8 Standard, 1.0E+11 capsids/ml                                         | 120uL              |
| Standard     | GMV-TrueX-ELISA-AAV9-STD  | AAV9 Standard, 1.0E+11 capsids/ml                                         | 120uL              |
| AAV2         | GMV-TrueX-ELISA-2-1-96    | TrueX®-AAV2 Serotype Titration Kit (ELISA)                                | 1 plate (96 wells) |
| AAV5         | GMV-TrueX-ELISA-5-1-96    | TrueX®-AAV5 Serotype Titration Kit (ELISA)                                | 1 plate (96 wells) |
| AAV6         | GMV-TrueX-ELISA-6-1-96    | TrueX®- AAV6 Serotype Titration Kit (ELISA)                               | 1 plate (96 wells) |
| AAV8         | GMV-TrueX-ELISA-8-1-96    | TrueX®- AAV8 Serotype Titration Kit (ELISA)                               | 1 plate (96 wells) |
| AAV9         | GMV-TrueX-ELISA-9-1-96    | TrueX®-AAV9 Serotype Titration Kit (ELISA)                                | 1 plate (96 wells) |



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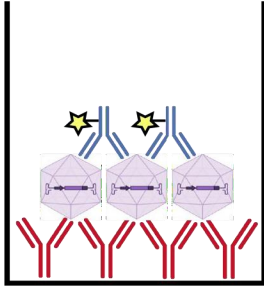


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[Sample Request](#)

## TrueX® -ONE Universal AAV Titration Kit (ELISA)



★ HRP



One for All serotypes



Easy-Handling ELISA



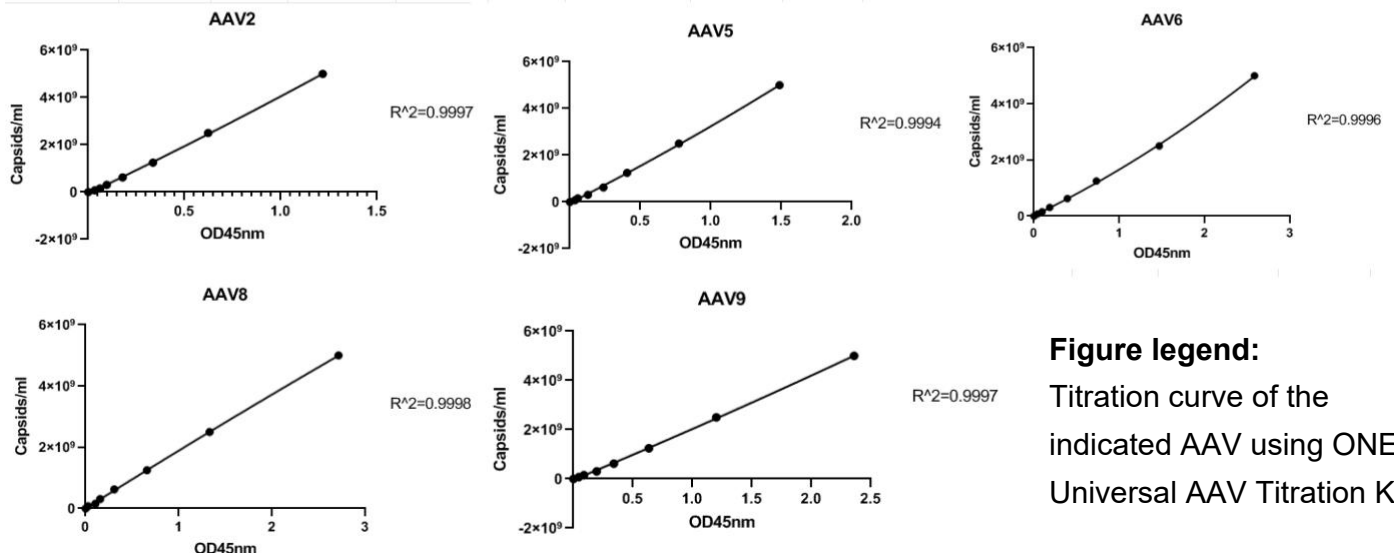
Wider Linear



Batches-stable

| Serotype | Detection Range       | Recovery % | LOD    | LOQ    | CV%  | Number of Test |
|----------|-----------------------|------------|--------|--------|------|----------------|
| AAV2     | 7.8E7-5E9 capsids/ml  | 100.5      | 6.28e7 | 1.46e8 | 4.18 | 24.00          |
| AAV5     | 7.8E8-5E10 capsids/ml | 100.84     | 6.43e7 | 1.43e8 | 1.93 | 24.00          |
| AAV6     | 7.8E7-5E9 capsids/ml  | 99.84      | 1.47e7 | 2.93e7 | 4.12 | 24.00          |
| AAV8     | 7.8E7-5E9 capsids/ml  | 99.40      | 4.85e7 | 9.65e7 | 3.41 | 24.00          |
| AAV9     | 7.8E7-5E9 capsids/ml  | 99.45      | 2.55e8 | 5.06e8 | 4.09 | 24.00          |

| AAV2 capsids/ml | OD450nm | AAV5 capsids/ml | OD450nm | AAV6 capsids/ml | OD450nm | AAV8 capsids/ml | OD450nm | AAV9 capsids/ml | OD450nm |
|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|---------|
| 5.00E+09        | 1.2177  | 5.00E+09        | 1.4876  | 5.00E+09        | 2.5814  | 5.00E+09        | 2.7116  | 5.00E+09        | 2.357   |
| 2.50E+09        | 0.6233  | 2.50E+09        | 0.7735  | 2.50E+09        | 1.4662  | 2.50E+09        | 1.3289  | 2.50E+09        | 1.2003  |
| 1.25E+09        | 0.3362  | 1.25E+09        | 0.4058  | 1.25E+09        | 0.7311  | 1.25E+09        | 0.6571  | 1.25E+09        | 0.634   |
| 6.25E+08        | 0.1788  | 6.25E+08        | 0.2384  | 6.25E+08        | 0.3909  | 6.25E+08        | 0.3073  | 6.25E+08        | 0.3399  |
| 3.13E+08        | 0.0963  | 3.13E+08        | 0.1279  | 3.13E+08        | 0.185   | 3.13E+08        | 0.1553  | 3.13E+08        | 0.1953  |
| 1.56E+08        | 0.0614  | 1.56E+08        | 0.0557  | 1.56E+08        | 0.095   | 1.56E+08        | 0.1047  | 1.56E+08        | 0.0885  |
| 7.81E+07        | 0.0337  | 7.81E+07        | 0.0356  | 7.81E+07        | 0.0413  | 7.81E+07        | 0.0264  | 7.81E+07        | 0.0453  |
| 0               | 0       | 0               | 0.0000  | 0               | 0       | 0               | 0       | 0               | 0       |



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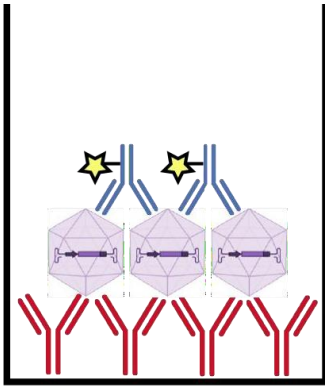


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## TrueX® - AAV Titration Kit (ELISA)



★ HRP



More Sensitive



Easy-Handling ELISA



Wider Linear



Batches-stable

| Serotype | Detection Range       | Recovery % | LOD      | LOQ      | CV%  | Number of Test |
|----------|-----------------------|------------|----------|----------|------|----------------|
| AAV2     | 7.8E7-5E9 capsids/ml  | 100.50     | 8.22E+08 | 1.84E+09 | 4.72 | 24.00          |
| AAV5     | 7.8E8-5E10 capsids/ml | 100.10     | 3.52E+08 | 7.81E+08 | 1.03 | 24.00          |
| AAV6     | 7.8E7-5E9 capsids/ml  | 98.62      | 5.74E+09 | 1.56E+10 | 3.89 | 24.00          |
| AAV8     | 7.8E7-5E9 capsids/ml  | 100.15     | 5.18E+08 | 1.04E+09 | 3.98 | 24.00          |
| AAV9     | 7.8E7-5E9 capsids/ml  | 99.64      | 1.87E+08 | 4.18E+08 | 4.33 | 24.00          |

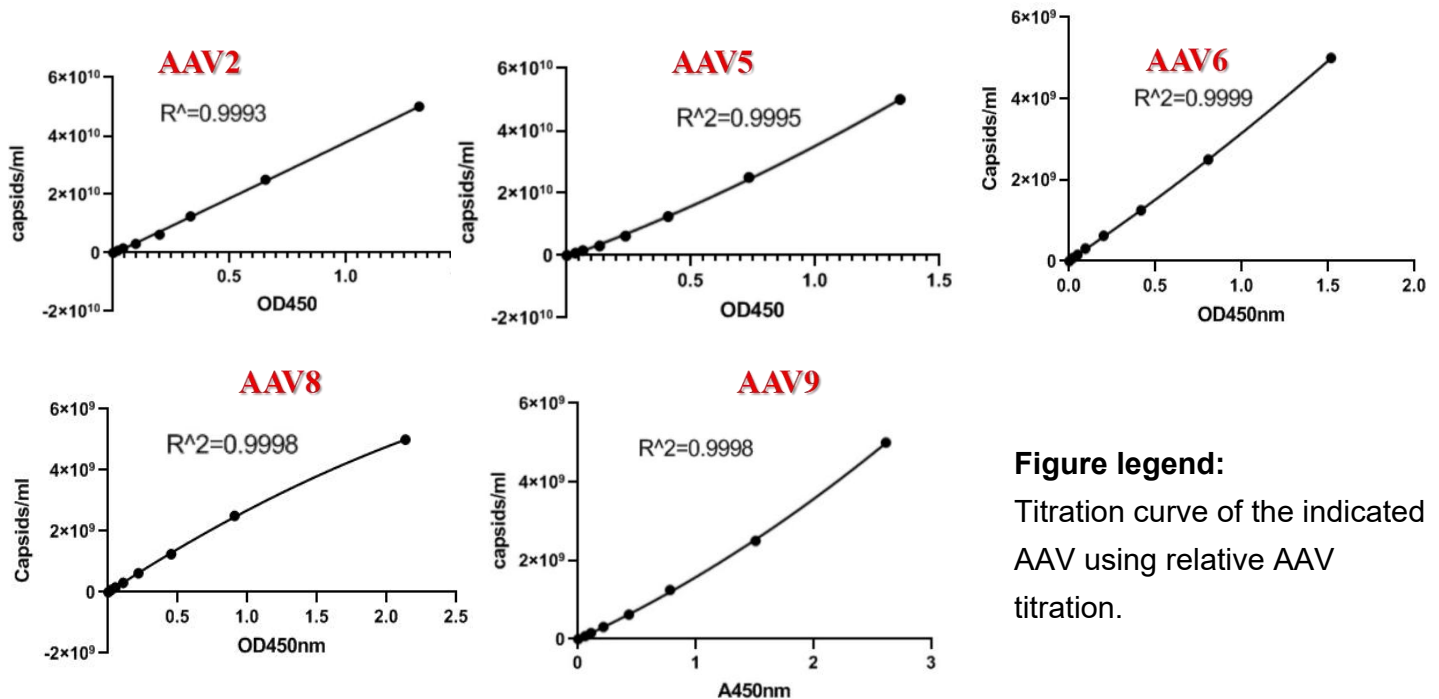


**Figure legend:**

Titration curve of the indicated AAV using relative AAV titration.



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# Capsid-X™ Solution

## Purify and Quantify your Novel AAV Capsids

### AAV Purification Solution



- ✓ **PurProX® AAVEasy Spin Column - AAV Purification Kit**  
No ultracentrifuge required.  
Enable quick **30-mins** AAV benchtop purification.
- ✓ **PurProX® AAVPure AAV Affinity Chromatography Column**
- ✓ **PurProX® AAVPure AAV Affinity Resin**

**High purity · High recovery · Multi- Serotypes**

### AAV Titration Solution



- ✓ **TrueX®-ONE Universal AAV Capsid ELISA Kit (Multi-Serotypes)**
- ✓ **TrueX®- AAV2/5/6/8/9 Titration ELISA Kit for Capsid Quantification**

**Accurate · Reliable · Multi- Serotypes**

## Validation of Novel AAV Capsid Purification & Titration

| Base Serotype        | Variant Name                                     | PurProX AAVEasy Spin Column | TrueX-ONE Universal ELISA |
|----------------------|--------------------------------------------------|-----------------------------|---------------------------|
| <b>AAV2</b>          | AAV2 (wild-type)                                 | ✓                           | ✓                         |
|                      | AAV2.7m8 (7-aa insertion)                        |                             |                           |
|                      | AAV.Zero3 (chimeric)                             |                             |                           |
| <b>AAV5</b>          | AAV5 (wild-type)                                 | ✓                           | ✓                         |
|                      | AAV5(double Y-F)                                 |                             |                           |
| <b>AAV6</b>          | AAV6 (wild-type)                                 | ✓                           | ✓                         |
|                      | AAV6-M2 (peptide swap)                           |                             |                           |
|                      | AAV-hT7 (peptide swap)                           |                             |                           |
| <b>AAV8</b>          | AAV8 (wild-type)                                 | ✓                           | ✓                         |
| <b>AAV9</b>          | AAV9 (wild-type), AAV-PHP.eB                     | ✓                           | ✓                         |
|                      | pAAV9-N272A (point mutation)                     |                             |                           |
|                      | pAAV9-W503A (point mutation)                     |                             |                           |
|                      | pAAV9-N272A + W503A (double)                     |                             |                           |
|                      | BI-hTFR1 (peptide insert). BI-hTFR1v2 / hTFR2v2  |                             |                           |
|                      | VCAP-102 (HDSPHK insert), TTM-027 (peptide swap) |                             |                           |
|                      | AAV9-4D-1 / 4D-2 (long insert)                   |                             |                           |
| <b>AAV shuffling</b> | AAV-DJ (chimeric)                                | ✓                           | ✓                         |



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## GM Multi-Serotype AAV Vector System (Amp and Kanamycin)

### Serotype list of AAV Rep-Cap plasmids

GeneMedi offers both Ampicillin (Amp) resistance and Kanamycin (Kan) resistance for the AAV Rep-Cap Plasmids.

| Main Category                                  | Sub-Category / Source Characteristics                                                                                                                                              | Included AAV Serotypes / Capsids                                                                                                                                                                                                               |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>I. Natural / Classic AAV Serotypes</b>      | Classic Numeric Series(Mainly derived from humans or common primates; foundational for basic and translational research)                                                           | AAV1, AAV2, AAV3, AAV3B, AAV4, AAV5, AAV6, AAV7, AAV8, AAV9, AAV10, AAV11, AAV12, AAV13                                                                                                                                                        |
| <b>II. Wild-Type Isolates / Animal-Derived</b> | Macaque / Rhesus (Rh)                                                                                                                                                              | AAV-Rh.10, AAVrh10, AAVrh8, AAVrh20, AAVrh32.33, AAVrh39, AAVrh43, AAV-rh74, AAVrh74, AAVrh91, AAVrh.8R, AAVrh.10R                                                                                                                             |
|                                                | Cynomolgus Macaque (Cy)                                                                                                                                                            | AAVcy5, AAVcy10                                                                                                                                                                                                                                |
|                                                | Human Isolates (Hu)                                                                                                                                                                | AAVhu37                                                                                                                                                                                                                                        |
|                                                | Baboon (Bb)                                                                                                                                                                        | AAVbb1                                                                                                                                                                                                                                         |
|                                                | Porcine / Pig (Pi)                                                                                                                                                                 | AAVpi2                                                                                                                                                                                                                                         |
| <b>III. Engineered / Modified AAV Capsids</b>  | 1. AAV2-Derived / Mutants(Based on AAV2 via tyrosine mutations, surface peptide insertions, or chimeras)                                                                           | AAV2 variant (Y444F),AAV2 variant (Y272F, Y444F, Y500F, Y730F), AAV2 variant (Y444F, Y730F, Y500F, Y272F, Y704F, Y252F),AAV2 variant (AAV2.7m8), AAV2 QuadYF, AAV2-shH10,AAV2-THGTPAD, AAV2-NLPGSGD,AAV2.5, AAV2.5T (Note: AAV2/AAV1 chimeras) |
|                                                | 2. AAV9-Derived / Mutants(Often utilized for blood-brain barrier penetration or CNS targeting)                                                                                     | AAV9-X1.1, AAV9-DM, AAV-PHP.B, AAV-PHP.eB, AAV-PHP.S, AAV-PHP.eC, AAV.CAP-B10, AAV.CAP-B22, AAV.CAP-Mac                                                                                                                                        |
|                                                | 3. AAV8-Derived / Mutants                                                                                                                                                          | AAV8-1m, AAV8-2m, AAV8 variant (Y733F, Y447F, Y275)                                                                                                                                                                                            |
|                                                | 4. AAV1 & AAV6-Derived                                                                                                                                                             | AAV1-X1, AAV6.2, AAV6.2FF                                                                                                                                                                                                                      |
|                                                | 5. MyoAAV Series(Muscle-targeted capsids identified via in vivo directed evolution)                                                                                                | MyoAAV, MyoAAV 1A, MyoAAV 2A, MyoAAV 3A, MyoAAV 4A, MyoAAV 4E                                                                                                                                                                                  |
|                                                | 6. Chimeric / Directed Evolution / Ancestral & Other Platforms(Complex variants obtained via DNA shuffling, ancestral sequence reconstruction, or proprietary screening platforms) | AAV-DJ, AAV-DJ/8, AAV-Retro (Retrograde), AAV-Anc80, Anc80L65 (Ancestral reconstruction), AAV-LK03, AAV-NP40, AAV-Spark100, AAV-HSC, AAV-BR1, AAV-2i8, AAV-SIG, AAV-VEC, AAV.CPP.16, AAV44.9, AAV-ie                                           |

GeneMedi (GM) AAV Vector system is including: 1) AAV Rep-Cap plasmid 2) AAV Helper plasmid 3) AAV expression vectors (overexpression or shRNA).

You can produce AAV particle in 293T cell line in high titer using GeneMedi's AAV Rep-Cap plasmid with GM's AAV expression vector (overexpression or shRNA) and AAV helper plasmid.

For example:

AAV1 Vector System :

1. AAV1 Rep-Cap Plasmid,
2. AAV Helper Plasmid,
3. pGMAAV-CMV-MCS-T2A-ZsGreen (P-AAVV-B01)

### List of AAV expression plasmids

|                  |                                                          |
|------------------|----------------------------------------------------------|
| <b>Promoters</b> | CMV, CAG, hSyn, CamKII, GFAP, cTNT, TBG, U6, EF1, EF1a   |
| <b>Reporter</b>  | EGFP, eRFP, hrGFP, luc, LUCi, mCherry, tdtomato, ZsGreen |
| <b>Tag</b>       | 3FLAG(C-terminal)                                        |

For more choices, you can click here to check:

<https://www.genemedi.net/i/aaav-expression-vector-list>



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## TransEx™ DNA Rapid Preparation Service

### Service Grades:

Research Grade  
Endotoxin-Free Grade  
High Quality (HQ) Grade

### Faster

The production will be within 1 week.

### High-efficiency

Good for proteins, antibodies, viral vector production

### High-quality

Strict adherence to standard operating procedures

### Cost-effective

Good value for the money spent

### Products:

- AAV vector system (AAV expression system, AAV packaging plasmid system)**

Serotype: AAV1, AAV2, AAV2, AAV2 variant (Y444F), AAV2 variant (Y272F, Y444F, Y500F, Y730F), AAV2 variant (Y444F, Y730F, Y500F, Y272F, Y704F, Y252F), AAV2.7m8, AAV5, AAV6, AAV8, AAV8-1m, AAV8-2m, AAV8-3m, AAV9, AAV-Rh10, AAV-DJ, AAV-DJ8, AAV2-Retro(Retrograde), AAV-PHP.B, AAV-PHP.eB, AAV-PHP.S, AAV-BR1, AAV-VEC, AAV-2i8, AAV-SIG, AAV4, AAV6.2, AAV6.2FF, MyoAAV 1A, MyoAAV 2A, MyoAAV 3A, MyoAAV 4A, MyoAAV 4E, AAV-Anc80, AAV-rh74, AAV-LK03, AAV3, AAV3B, AAV7, AAV10, AAV11, AAV12, AAV13, AAVrh8, AAVrh10, AAVrh20, AAVrh32.33, AAVrh39, AAVrh43, AAVrh74, AAVrh91, AAVhu37, AAVcy5, AAVcy10, AAVbb1, AAVpi2, AAVrh.8R, AAVrh.10R, AAV-NP40, AAV-Spark100, AAV-HSC, AAV2.5, AAV2.5T, AAV-PHP.eC, AAV.CAP-B10, AAV.CAP-B22, AAV.CAP-Mac, AAV.CPP.16, AAV9-X1.1, AAV1-X1, Anc80L65, AAV2 QuadYF, AAV2-shH10, AAV44.9, AAV-ie, MyoAAV, AAV9-DM, AAV2-THGTPAD, AAV2-NLPGSGD

- Adenovirus expression vectors (adenovirus expression plasmids)**

- Lentivirus vector system**

Including PMD2G(Cat No.: P-ALV-C01), pSPAX2(Cat No.: P-ALV-C02) and other expression vector

- Promise-ORF™ viral CDNA library**

More than 60, 000 pre-made CDNA/ORF viral plasmids and viral particles in Lentivirus, Adenovirus and AAV

### Validation

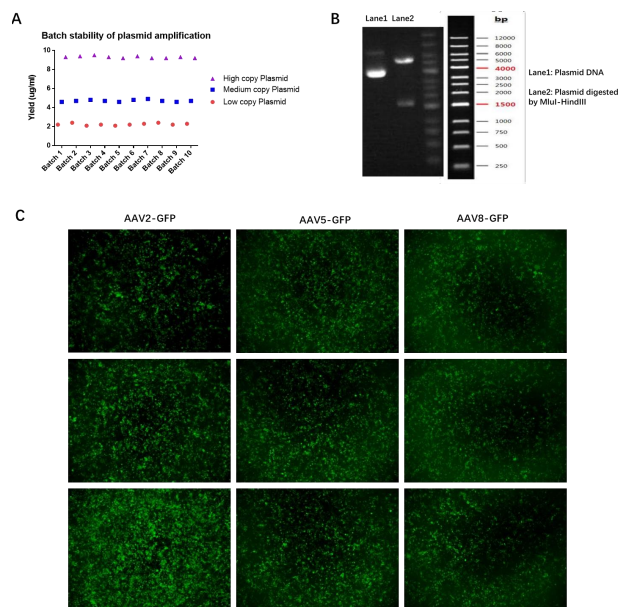


Figure. GeneMedi's plasmid amplification service ensures consistent, high-quality plasmid preparation with excellent batch stability, purity, and vector potency.

A, Plasmid yield stability across low, medium, and high-copy number plasmids.

B, PAGE gel showing plasmid purity, with  $\geq 90\%$  supercoiled content.

C, Green fluorescence image showing successful infection of 293 cells with AAV2, AAV5, and AAV8 viruses.



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GM AAV packaging services

| Platform                                                                                                                                                                                         | AAV Manufacturing Capacity | AAV9 Yield  | AAV8 Yield  | AAV5 Yield  | AAV2 Yield  | AAV PHPeB Yield |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|-------------|-------------|-------------|-----------------|
| 293T suspension cells                                                                                                                                                                            | ~ 20L                      | 4.7E+13VG/L | 1.9E+13VG/L | 2.3E+13VG/L | 5.4E+12VG/L | 1.1E+13VG/L     |
| <div><div>All common-used serotypes: AAV1, AAV2, AAV5, AAV6, AAV8, AAV9, AAVrh10, AAV-DJ, AAV.PHP, AAV-Anc80 etc.</div><div>ssAAV, scAAV</div><div>Customized AAV capsid and vectors</div></div> |                            |             |             |             |             |                 |

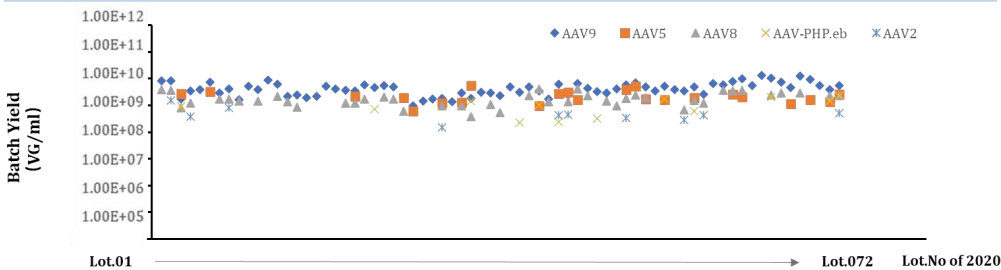


Figure 1: Consistent AAV Production Platform With High Yield.

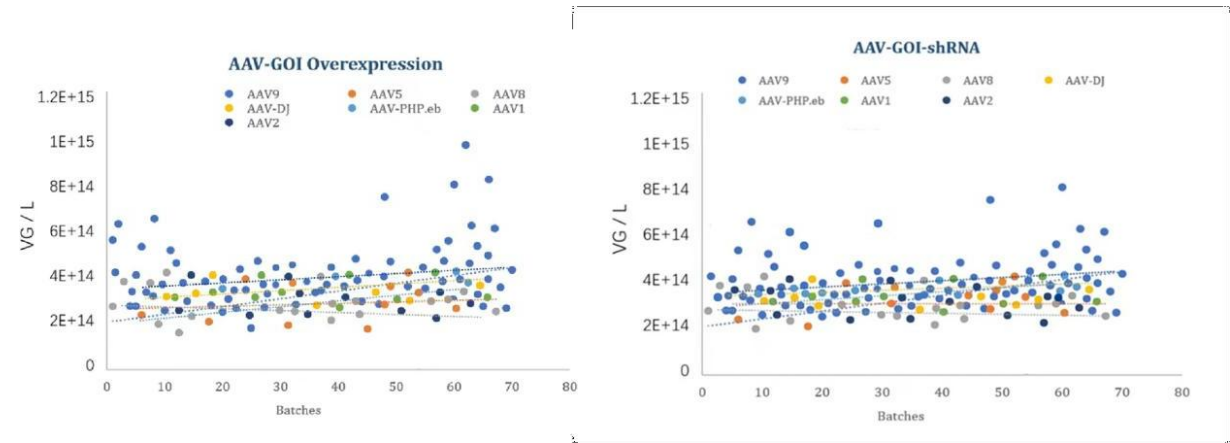
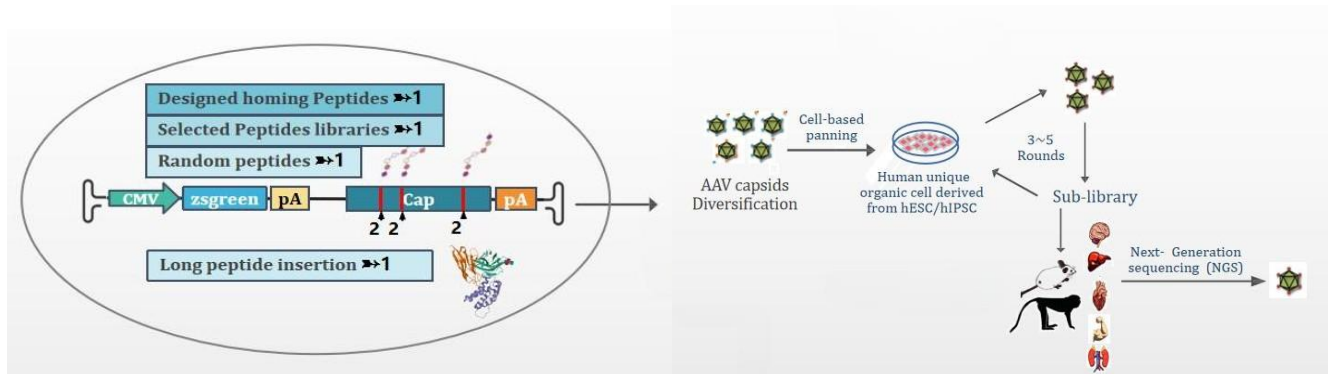


Figure 2: Manufacturing Batch Stability of Different AAV Serotypes

## G-NEXT - Novel AAV Development Platform

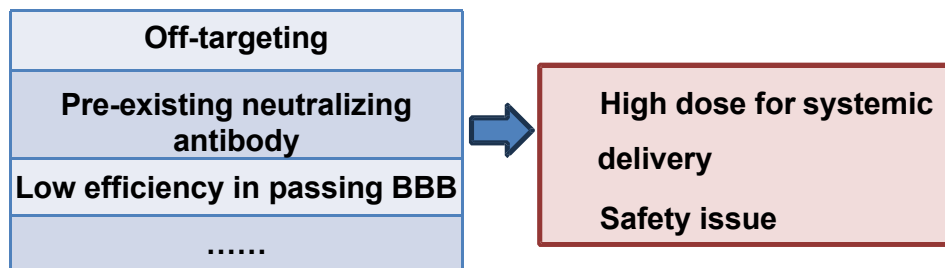


### Strategy of G-NEXT™ AAV Development

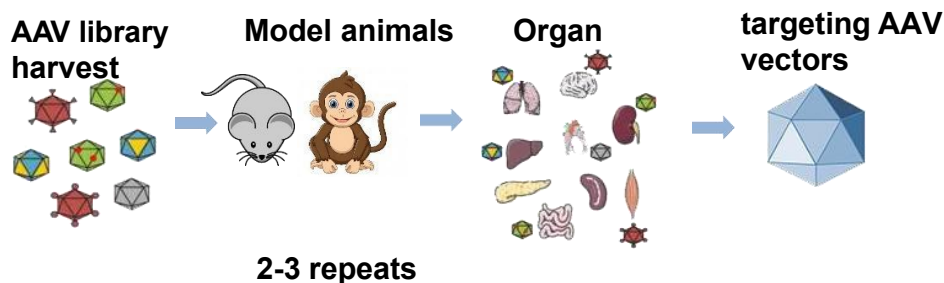
G-NEXT™ combines AAV biology, hiPSC models, structure-based engineering, and high-throughput manufacturing to advance the development of the next generation of AAV-based therapies.

## Rational novel targeting AAV development

### Drawbacks in conventional AAV vectors



### Traditional development of targeting AAV vectors



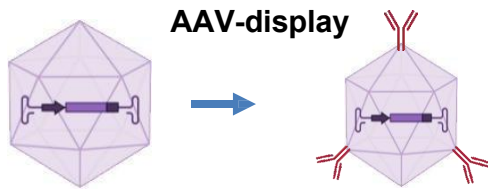
Animal model cannot fully simulate human organs

Highly random

Heavy workload

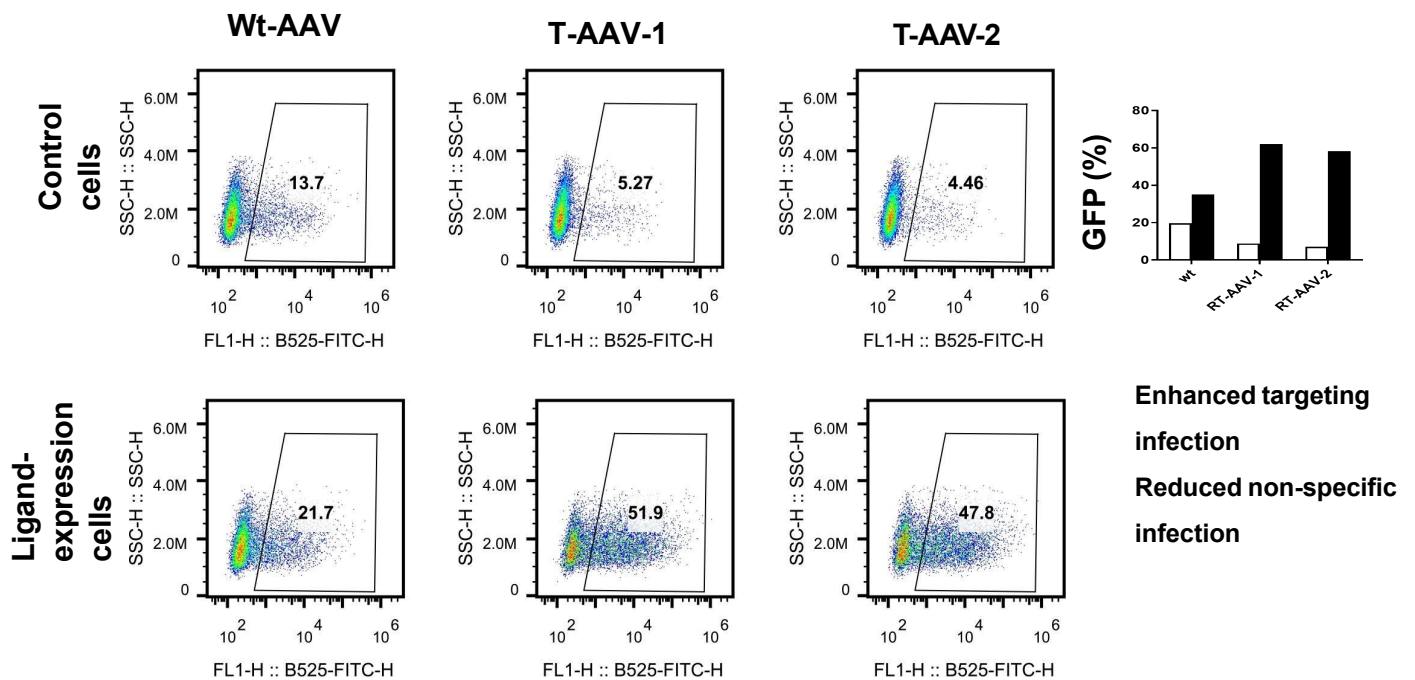
## Rational novel targeting AAV development

### Rational novel targeting AAV development



Ligand-receptor mediated infection  
Modified surface of AAV particle  
Modular construction  
Easily extensible in targeting

### Higher targeting efficacy compare with wt-AAV



Enhanced targeting infection  
Reduced non-specific infection



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## GM Promise™ ORF Viral Library

Discover the largest collection of ORF/cDNA expression clones from different species, including human, mouse, rat, and more with GeneMedi's Promise™-ORF. Our collection of ORFs expression clones come in verified mammalian or viral vectors (lentivirus, AAV, and adenovirus) and our Promise™-ORF viral-ready expression vectors make it easy for you to improve viral vector packaging efficiency or directly transfect mammalian cells, resulting in stronger and easier expression detection.

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Promise-ORF™ viral CDNA library: Sequence-verified ORF/cDNA clones in lentivirus (lentiviral ORF clones), AAV, adenovirus and mammalian expression vectors.

### Promise-ORF™

Discover the largest collection of ORF/cDNA expression clones from different species, including human, mouse, rat, and more with GeneMedi's Promise-ORF™. Our collection of ORFs expression clones come in verified mammalian or viral vectors (lentivirus, AAV, and adenovirus) and our Promise-ORF™ viral-ready expression vectors make it easy for you to improve viral vector packaging efficiency or directly transfect mammalian cells, resulting in stronger and easier expression detection.

gene id, gene name or alias, accession number(NM), Cat#



Product Type: Please Select ▾



| Catalog No.  | Product Name                           | Gene Name & ...               | Species | Accession Nu... | Marker  | Fusion Tag          | Promoter | Type                  | Detail                                          |
|--------------|----------------------------------------|-------------------------------|---------|-----------------|---------|---------------------|----------|-----------------------|-------------------------------------------------|
| pGMPLP000001 | Human PEG10<br>Lentivirus<br>plasmid   | PEG10;EDR,HB-1,Mar2,Mart2,MEF | Human   | NM_001040152    | ZsGreen | 3xflag (C-Terminal) | CMV      | Lentivirus<br>plasmid | <a href="#">Inquiry</a> <a href="#">Details</a> |
| pGMPLP000002 | Human SELENOM<br>Lentivirus<br>plasmid | SELENOM;SELM,SE               | Human   | NM_080430       | ZsGreen | 3xflag (C-Terminal) | CMV      | Lentivirus<br>plasmid | <a href="#">Inquiry</a> <a href="#">Details</a> |
| pGMPLP000003 | Human SELENOW<br>Lentivirus<br>plasmid | SELENOW;selW,SEI              | Human   | NM_003009       | ZsGreen | 3xflag (C-Terminal) | CMV      | Lentivirus<br>plasmid | <a href="#">Inquiry</a> <a href="#">Details</a> |



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# About GeneMedi

**GeneMedi** Founded in 2018 by a team of interdisciplinary experts in drug discovery, CMC process development, computational biology, materials chemistry, and etc., GeneMedi is dedicated to empowering gene & cell therapy (GCT) development through high-efficiency purification and rigorous quality control solutions.



**Our mission:** Innovate biologics to empower gene and cell therapy. GeneMedi combines world-class technology platforms with a rigorous quality management system. GeneMedi deliver reliable, high-performance solutions to global clients, helping to accelerate drug R&D.

## Four Technical Pillars



### GM-LIBRA™ (AI-Driven Design)

AI-identified universal domains across AAV2/5/8/9/rh10 ensure broad compatibility with balanced kinetics for high recovery and infectivity preservation.



### GM-AffProX™ (Large-Pore Engineering)

Features Large-Pore Microspheres tailored for AAV (~25nm) to maximize mass transfer and binding capacity at high flow rates, augmented by directional ligand coupling.



### G-NEXT™ (Novel Evolution-X Technology)

G-NEXT drives the discovery of diverse, novel AAV serotypes and the optimization of next-generation lentiviral envelopes. The platform features a closed-loop system that seamlessly integrates AI-driven ligand design, structure-based vector engineering, AAV biological screening, lentiviral envelope optimization, high-throughput screening in human organoid models, and rigorous in vivo validation.



### GVC (GM Vector Core)

A Quality-by-Design (QbD) platform dedicated to viral vector process development. It delivers tailored, high-quality production strategies for diverse, novel AAV serotypes, lentiviruses with engineered envelopes, and adenoviruses with modified fibers, establishing robust and scalable processes to support advanced research and downstream manufacturing.

## Core Advantages

### International Quality Management System

GeneMedi strictly follow ISO 9001 and ISO 13485 standards and implemented a digital quality traceability system to ensure exceptional product quality.

### Professional Team

Our team of 60+ cross-disciplinary experts brings over 10 years of average industry experience and in-depth knowledge of GCT and antibody development requirements.

### Technology Innovation

AI-driven product design platform is integrated with a million-level biological big data database to speed up product iteration and enhance performance.

One step for most. Two steps for perfection.

**PurProX® AAVEasy + AAVFull = High-Purity, High Full-Capsid AAV**



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