

Title:	Form – CV900039	Effective Date: 3/26/2025
		Revision: 1

**PRODUCTION AND GENERAL INFORMATION:**

<b>OTI SKU:</b>	CV900039S/L
<b>Product Description:</b>	AAV2-retro with CMV promoter-driven expression of GFP, >10 <sup>13</sup> GC/mL, 50 ul/100uL
<b>Lot #</b>	134FE62
<b>Biosafety Level:</b>	1
<b>Vector</b>	AAV2-retra and pAAV-CMV-GFP
<b>Insert SKU</b>	N/A
<b>Insert Gene ID</b>	N/A
<b>Clone ID</b>	N/A
<b>DNA Location</b>	N/A
<b>Parental Cell Line</b>	N/A
<b>Cell Culture Medium Composition</b>	N/A
<b>Cell Culture Condition</b>	N/A
<b>Antibiotic Selection</b>	N/A
<b>Production Scale</b>	From 4x15cm plates to make 500ul of 1x10 <sup>13</sup> GC/ml AAV particle
<b>Production SOP</b>	<ul style="list-style-type: none"> <li>SOP title: AAV Particle Production</li> <li>SOP location: S:\Molecular-Biology\SOPs\SOP-MolBio-Restricted</li> </ul>
<b>Production &amp; QC batch files</b>	<ul style="list-style-type: none"> <li>Folder location: M:\AAV productions\2025\infection QC</li> <li>Check production and QC data under the name of AAV2-retro (RC7).</li> </ul>

**QC TESTING METHODS AND RESULTS:**

<b>OTI SKU:</b>	CV900039S/L
<b>Lot #</b>	134FE62
<b>Clone ID</b>	N/A
<b>DNA Location</b>	N/A
<b>DNA Prep Method</b>	N/A
<b>DNA Concentration</b>	N/A
<b>DNA Volume</b>	N/A
<b>DNA Sequencing</b>	<ul style="list-style-type: none"> <li>File name: N/A</li> <li>File location: N/A</li> </ul>

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<p><b>DNA Sequence file</b></p>	<ul style="list-style-type: none"> <li>• File name: N/A</li> <li>• File location: N/A</li> </ul>
<p><b>DNA Construct Map</b></p>	<p>The diagram shows a circular DNA construct of 7254 bp. Key features include:         <ul style="list-style-type: none"> <li><b>ori</b> (Origin of Replication) at approximately 700 bp.</li> <li><b>lacZα (Fragment)</b> at approximately 1000 bp.</li> <li><b>Retro</b> (Retroviral) element at approximately 2000 bp.</li> <li><b>VP1</b> (Viral Protein 1) at approximately 3000 bp.</li> <li><b>VP2</b> (Viral Protein 2) at approximately 4000 bp.</li> <li><b>VP3</b> (Viral Protein 3) at approximately 5000 bp.</li> <li><b>VP4</b> (Viral Protein 4) at approximately 6000 bp.</li> <li><b>VP5</b> (Viral Protein 5) at approximately 7000 bp.</li> <li><b>VP6</b> (Viral Protein 6) at approximately 7200 bp.</li> <li><b>VP7</b> (Viral Protein 7) at approximately 7250 bp.</li> <li><b>VP8</b> (Viral Protein 8) at approximately 7254 bp.</li> <li><b>VP9</b> (Viral Protein 9) at approximately 7254 bp.</li> <li><b>VP10</b> (Viral Protein 10) at approximately 7254 bp.</li> <li><b>VP11</b> (Viral Protein 11) at approximately 7254 bp.</li> <li><b>VP12</b> (Viral Protein 12) at approximately 7254 bp.</li> <li><b>VP13</b> (Viral Protein 13) at approximately 7254 bp.</li> <li><b>VP14</b> (Viral Protein 14) at approximately 7254 bp.</li> <li><b>VP15</b> (Viral Protein 15) at approximately 7254 bp.</li> <li><b>VP16</b> (Viral Protein 16) at approximately 7254 bp.</li> <li><b>VP17</b> (Viral Protein 17) at approximately 7254 bp.</li> <li><b>VP18</b> (Viral Protein 18) at approximately 7254 bp.</li> <li><b>VP19</b> (Viral Protein 19) at approximately 7254 bp.</li> <li><b>VP20</b> (Viral Protein 20) at approximately 7254 bp.</li> <li><b>VP21</b> (Viral Protein 21) at approximately 7254 bp.</li> <li><b>VP22</b> (Viral Protein 22) at approximately 7254 bp.</li> <li><b>VP23</b> (Viral Protein 23) at approximately 7254 bp.</li> <li><b>VP24</b> (Viral Protein 24) at approximately 7254 bp.</li> <li><b>VP25</b> (Viral Protein 25) at approximately 7254 bp.</li> <li><b>VP26</b> (Viral Protein 26) at approximately 7254 bp.</li> <li><b>VP27</b> (Viral Protein 27) at approximately 7254 bp.</li> <li><b>VP28</b> (Viral Protein 28) at approximately 7254 bp.</li> <li><b>VP29</b> (Viral Protein 29) at approximately 7254 bp.</li> <li><b>VP30</b> (Viral Protein 30) at approximately 7254 bp.</li> <li><b>VP31</b> (Viral Protein 31) at approximately 7254 bp.</li> <li><b>VP32</b> (Viral Protein 32) at approximately 7254 bp.</li> <li><b>VP33</b> (Viral Protein 33) at approximately 7254 bp.</li> <li><b>VP34</b> (Viral Protein 34) at approximately 7254 bp.</li> <li><b>VP35</b> (Viral Protein 35) at approximately 7254 bp.</li> <li><b>VP36</b> (Viral Protein 36) at approximately 7254 bp.</li> <li><b>VP37</b> (Viral Protein 37) at approximately 7254 bp.</li> <li><b>VP38</b> (Viral Protein 38) at approximately 7254 bp.</li> <li><b>VP39</b> (Viral Protein 39) at approximately 7254 bp.</li> <li><b>VP40</b> (Viral Protein 40) at approximately 7254 bp.</li> <li><b>VP41</b> (Viral Protein 41) at approximately 7254 bp.</li> <li><b>VP42</b> (Viral Protein 42) at approximately 7254 bp.</li> <li><b>VP43</b> (Viral Protein 43) at approximately 7254 bp.</li> <li><b>VP44</b> (Viral Protein 44) at approximately 7254 bp.</li> <li><b>VP45</b> (Viral Protein 45) at approximately 7254 bp.</li> <li><b>VP46</b> (Viral Protein 46) at approximately 7254 bp.</li> <li><b>VP47</b> (Viral Protein 47) at approximately 7254 bp.</li> <li><b>VP48</b> (Viral Protein 48) at approximately 7254 bp.</li> <li><b>VP49</b> (Viral Protein 49) at approximately 7254 bp.</li> <li><b>VP50</b> (Viral Protein 50) at approximately 7254 bp.</li> <li><b>VP51</b> (Viral Protein 51) at approximately 7254 bp.</li> <li><b>VP52</b> (Viral Protein 52) at approximately 7254 bp.</li> <li><b>VP53</b> (Viral Protein 53) at approximately 7254 bp.</li> <li><b>VP54</b> (Viral Protein 54) at approximately 7254 bp.</li> <li><b>VP55</b> (Viral Protein 55) at approximately 7254 bp.</li> <li><b>VP56</b> (Viral Protein 56) at approximately 7254 bp.</li> <li><b>VP57</b> (Viral Protein 57) at approximately 7254 bp.</li> <li><b>VP58</b> (Viral Protein 58) at approximately 7254 bp.</li> <li><b>VP59</b> (Viral Protein 59) at approximately 7254 bp.</li> <li><b>VP60</b> (Viral Protein 60) at approximately 7254 bp.</li> <li><b>VP61</b> (Viral Protein 61) at approximately 7254 bp.</li> <li><b>VP62</b> (Viral Protein 62) at approximately 7254 bp.</li> <li><b>VP63</b> (Viral Protein 63) at approximately 7254 bp.</li> <li><b>VP64</b> (Viral Protein 64) at approximately 7254 bp.</li> <li><b>VP65</b> (Viral Protein 65) at approximately 7254 bp.</li> <li><b>VP66</b> (Viral Protein 66) at approximately 7254 bp.</li> <li><b>VP67</b> (Viral Protein 67) at approximately 7254 bp.</li> <li><b>VP68</b> (Viral Protein 68) at approximately 7254 bp.</li> <li><b>VP69</b> (Viral Protein 69) at approximately 7254 bp.</li> <li><b>VP70</b> (Viral Protein 70) at approximately 7254 bp.</li> <li><b>VP71</b> (Viral Protein 71) at approximately 7254 bp.</li> <li><b>VP72</b> (Viral Protein 72) at approximately 7254 bp.</li> <li><b>VP73</b> (Viral Protein 73) at approximately 7254 bp.</li> <li><b>VP74</b> (Viral Protein 74) at approximately 7254 bp.</li> <li><b>VP75</b> (Viral Protein 75) at approximately 7254 bp.</li> <li><b>VP76</b> (Viral Protein 76) at approximately 7254 bp.</li> <li><b>VP77</b> (Viral Protein 77) at approximately 7254 bp.</li> <li><b>VP78</b> (Viral Protein 78) at approximately 7254 bp.</li> <li><b>VP79</b> (Viral Protein 79) at approximately 7254 bp.</li> <li><b>VP80</b> (Viral Protein 80) at approximately 7254 bp.</li> <li><b>VP81</b> (Viral Protein 81) at approximately 7254 bp.</li> <li><b>VP82</b> (Viral Protein 82) at approximately 7254 bp.</li> <li><b>VP83</b> (Viral Protein 83) at approximately 7254 bp.</li> <li><b>VP84</b> (Viral Protein 84) at approximately 7254 bp.</li> <li><b>VP85</b> (Viral Protein 85) at approximately 7254 bp.</li> <li><b>VP86</b> (Viral Protein 86) at approximately 7254 bp.</li> <li><b>VP87</b> (Viral Protein 87) at approximately 7254 bp.</li> <li><b>VP88</b> (Viral Protein 88) at approximately 7254 bp.</li> <li><b>VP89</b> (Viral Protein 89) at approximately 7254 bp.</li> <li><b>VP90</b> (Viral Protein 90) at approximately 7254 bp.</li> <li><b>VP91</b> (Viral Protein 91) at approximately 7254 bp.</li> <li><b>VP92</b> (Viral Protein 92) at approximately 7254 bp.</li> <li><b>VP93</b> (Viral Protein 93) at approximately 7254 bp.</li> <li><b>VP94</b> (Viral Protein 94) at approximately 7254 bp.</li> <li><b>VP95</b> (Viral Protein 95) at approximately 7254 bp.</li> <li><b>VP96</b> (Viral Protein 96) at approximately 7254 bp.</li> <li><b>VP97</b> (Viral Protein 97) at approximately 7254 bp.</li> <li><b>VP98</b> (Viral Protein 98) at approximately 7254 bp.</li> <li><b>VP99</b> (Viral Protein 99) at approximately 7254 bp.</li> <li><b>VP100</b> (Viral Protein 100) at approximately 7254 bp.</li> </ul> </p>
<p><b>Restriction Mapping</b></p>	<ul style="list-style-type: none"> <li>• File name: N/A</li> <li>• File location: N/A</li> <li>• Gel image: N/A</li> </ul>

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<b>Western blotting QC</b>	N/A
<b>Virus Titer</b> Criteria: $>1 \times 10^8$ TU/ml. Result: $1 \times 10^9$ TU/ml, Pass.	<ul style="list-style-type: none"> <li>• Method: qPCR</li> <li>• Titer: <math>7.03 \times 10^{13}</math> GC/ml (Criteria: <math>&gt;1 \times 10^{13}</math> GC/ml; Result: <math>7.03 \times 10^{13}</math> TU/ml, Pass)</li> </ul>
<b>Virus Volume</b>	500ul

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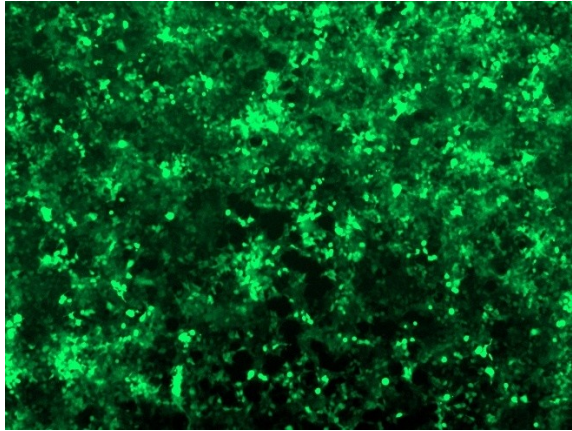
**Viral Transduction QC**

Criteria:

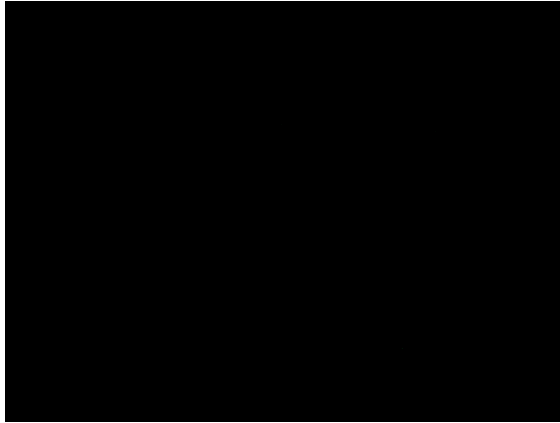
1. >50% GFP<sup>+</sup> in HEK293T cells.  
Result: >80% RFP<sup>+</sup>.  
Pass.

2. No RFP expression.  
Result: No RFP expression. Pass.

Example photos:



GFP image (10x).  
High GFP expression levels and high transduction efficiency were observed.  
(Criteria: >50% GFP<sup>+</sup> in HEK293T cells; Result: >80% GFP<sup>+</sup>, Pass)



RFP image (10x). No RFP contamination was detected.  
(Criteria: No RFP expression; Result: No RFP expression, Pass)

**LINKS TO COMPETITOR'S PRODUCTS:**

**AUTHORIZATION AND APPROVAL:**

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<b>Process Parameter Form Prepared by</b>	Mao Fu	Date: 1/03/25
<b>Manufactured by</b>	Yan Ma, Julian Heller, Brian Park, and Laily Jaghori	
<b>QC by</b>	Brian Park, Laily Jaghori, and Mao	
<b>Approved by R&amp;D Head</b>		
<b>Approved by Marketing Head</b>		
<b>Approved by PD Head</b>		