

## AVAILABLE PRE-MADE CONTROL VECTORS

LAST UPDATE: May 19, 2021

EXPRESSION CASSETTE	AAV1	AAV2					AAV3	AAV4	AAV5			AAV6		AAV8		AAV9			AAV10	AAV (other)	
	1	2	7m8	retro	ShH10	Y444F	3	4	5	5.2	scAAV5	6	Y705+731F	8	8.2	9	9-5C	scAAV9	shH10	DJ	PHP.eB
ApoE/hAAT-GFP	•									•		•		•	•						
CAG-DIO-rev-mCherry																	•				
CAG-FLEX-DTA-IRES-mCherry																	•				
CAG-FLEX-GFP																	•				
CAG-FLEX-rev-mCherry																	•				
CAG-GFP	•	•		•					•	•		•		•	•		•				
CAG-GFP-WPRE	•																				
CAG-mCherry	•	•										•		•		•					
CBA-GFP	•	•								•					•	•				•	
CBA-GFP-STUFFER-KanR		•																			
CK8-Cas9																	•				
CMV-Cre	•	•		•					•	•		•		•	•		•				
CMV-Cre-2A-GFP																	•				
CMV-Cre-2A-tdTomato																	•				
CMV-Cre-IRES-GFP	•	•								•		•			•	•					
CMV-Cre-SV40PY															•						
CMV-FLEX-SaCas9																	•				
CMV-GFP	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•			•		•
CMV-GFP-SV40Pa																	•				
CMV-LacZ									•								•				
CMV-Luciferase	•	•							•	•		•		•	•		•			•	•
CMV-mCherry		•												•		•					
CMV-MTS-roGFP																	•				
CMV-NLS-SaCas9		•													•						
CMV-RFP	•	•								•		•		•	•	•					
EF1a-DIO-rev-GFP															•						
EF1a-DIO-Synaptophysin-mCherry															•						
EF1a-DIO-tdTomato-rev-GFP															•		•				
EF1a-GFP	•	•								•		•			•	•				•	
EF1a-GFP-hGFpA									•												
EFS-SpCas9															•						
Empty	•	•	•				•	•	•	•		•		•	•	•					•
Hcd11b-Cre																	•				
hSyn-Cre-2A-tdTomato-SV40A																	•				
Luciferase			•																		
Synapsin-DIO-rev-GFP																	•				
Synapsin-DIO-rev-YFP																	•				
Synapsin-GFP	•	•	•						•	•		•			•	•	•	•			
Syn-GFP-SV40Pa																	•				
Synapsin-mCherry	•	•							•	•		•			•	•					
TH-GFP															•		•				
U6-Scrambled-CMV-GFP																	•				

We are constantly adding to this existing inventory of AAV Control Vectors, so please let us know if your specific control is not listed. Any combination of the serotype/promoter/reporter gene will be produced in 3-4 weeks.

**\*\*Recombinant AAV Vectors Generated by Virovek\*\***

Traditionally, AAV vectors were produced in human embryonic kidney HEK293 cells through three plasmid transfection method in which one plasmid carried the AAV rep/cap genes, a second the adenovirus helper genes, and a third the gene of interest flanked with two AAV ITRs. Virovek developed a new technology for large scale AAV vector production in insect cells utilizing the baculovirus expression system. In this new technology, AAV vectors are produced in Sf9 cells under serum-free condition through infection with two recombinant baculoviruses, one carrying the AAV rep/cap genes, and a second carrying the gene of interest flanked by two AAV ITRs. The AAV vectors are purified through two rounds of cesium chloride ultracentrifugation to ensure their purity. Salts are removed from the AAV samples and buffer-exchanged by two rounds of desalting columns. After filter-sterilization, the genome copy number of the AAV vectors is determined by quantitative real-time PCR assay and the AAV vectors are ready and have been proven with great success for in vivo or in vitro studies.