

VIROVEK's Available Pre-Made AAV CONTROL Vectors

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.

**Last Update: Oct 30, 2020

Expression Cassette	AAV Serotype
CMV-GFP	AAV1
CMV-GFP	AAV2
CMV-GFP	AAV2(Y444F)
CMV-GFP	AAV2-ShH10
CMV-GFP	AAV2-7m8
CMV-GFP	AAV3
CMV-GFP	AAV4
CMV-GFP	AAV5
CMV-GFP	scAAV5
CMV-GFP	AAV5.2
CMV-GFP	AAV6
CMV-GFP	AAV6(Y705+731F)
CMV-GFP	AAV8
CMV-GFP	AAV8.2
CMV-GFP	AAV9
CMV-GFP	AAVshH10
CMV-GFP	AAVPHP.EB
Synapsin-GFP	AAV1
Synapsin-GFP	AAV2
Synapsin-GFP	AAV2-7m8
Synapsin-GFP	AAV5
Synapsin-GFP	AAV5.2
Synapsin-GFP	AAV6
Synapsin-GFP	AAV8.2
Synapsin-GFP	AAV9
Synapsin-GFP	AAV9-5C
Synapsin-GFP	scAAV9
EF1a-GFP	AAV1
EF1a-GFP	AAV2
EF1a-GFP	AAV5.2
EF1a-GFP	AAV6
EF1a-GFP	AAV8.2
EF1a-GFP	AAV9
EF1a-GFP	AAVDJ
CBA-GFP	AAV1
CBA-GFP	AAV2
CBA-GFP	AAV1/2
CBA-GFP	AAV5.2
CBA-GFP	AAV8.2
CBA-GFP	AAV9
CBA-GFP	AAVDJ
CBA-GFP-STUFFER-KanR	AAV2
CAG-FLEX-GFP	AAV9

Expression Cassette	AAV Serotype
CMV-RFP	AAV1
CMV-RFP	AAV2
CMV-RFP	AAV5.2
CMV-RFP	AAV6
CMV-RFP	AAV8
CMV-RFP	AAV8.2
CMV-RFP	AAV9
CMV-Cre	AAV1
CMV-Cre	AAV2
CMV-Cre	AAV2.retro
CMV-Cre	AAV5
CMV-Cre	AAV5.2
CMV-Cre	AAV6
CMV-Cre	AAV8
CMV-Cre	AAV8.2
CMV-Cre	AAV9
CMV-Luciferase	AAV1
CMV-Luciferase	AAV2
CMV-Luciferase	AAV5
CMV-Luciferase	AAV5.2
CMV-Luciferase	AAV6
CMV-Luciferase	AAV8
CMV-Luciferase	AAV8.2
CMV-Luciferase	AAV9
CMV-Luciferase	AAVDJ
CMV-Luciferase	AAVPHP.EB
Synapsin-mCherry	AAV1
Synapsin-mCherry	AAV2
Synapsin-mCherry	AAV5
Synapsin-mCherry	AAV5.2
Synapsin-mCherry	AAV6
Synapsin-mCherry	AAV8.2
Synapsin-mCherry	AAV9
CAG-GFP	AAV1
CAG-GFP	AAV2
CAG-GFP	AAV2.retro
CAG-GFP	AAV5
CAG-GFP	AAV5.2
CAG-GFP	AAV6
CAG-GFP	AAV8
CAG-GFP	AAV8.2
CAG-GFP	AAV9
CAG-GFP-WPRE	AAV1

Expression Cassette	AAV Serotype
CMV-Cre-IRES-GFP	AAV1
CMV-Cre-IRES-GFP	AAV2
CMV-Cre-IRES-GFP	AAV5.2
CMV-Cre-IRES-GFP	AAV6
CMV-Cre-IRES-GFP	AAV8.2
CMV-Cre-IRES-GFP	AAV9
Empty	AAV1
Empty	AAV2
Empty	AAV2-7m8
Empty	AAV3
Empty	AAV4
Empty	AAV5
Empty	AAV5.2
Empty	AAV6
Empty	AAV8
Empty	AAV8.2
Empty	AAV9
Empty	AAVPHP.EB
ApoE/hAAT-GFP	AAV1
hAAT-GFP	AAV5.2
ApoE/hAAT-GFP	AAV6
ApoE/hAAT-GFP	AAV8
ApoE/hAAT-GFP	AAV8.2
CAG-mCherry	AAV1
CAG-mCherry	AAV2
CAG-mCherry	AAV6
CAG-mCherry	AAV8
CAG-mCherry	AAV9
CAG-FLEX-rev-mCherry	AAV9
CAG-FLEX-DTA-IRES-mCherry	AAV9
CMV-mCherry	AAV2
CMV-mCherry	AAV8
CMV-mCherry	AAV9

Expression Cassette	AAV Serotype
EF1a-DIO-rev-GFP	AAV8.2
EF1a-DIO-Synaptophysin-mCherry	AAV8.2
Synapsin-DIO-rev-YFP	AAV8.2
EF1a-DIO-tdTomato-rev-GFP	AAV8.2
EF1a-DIO-tdTomato-rev-GFP	AAV9
Synapsin-DIO-rev-GFP	AAV9
CAG-DIO-rev-mCherry	AAV9
EF1a-GFP-hGFpA	AAV5
TH-GFP	AAV8
TH-GFP	AAV9
CMV-MTS-roGFP	AAV9
CMV-LacZ	AAV5
CMV-LacZ	AAV9
hSyn-Cre-2A-tdTomato-SV40A	AAV9
CMV-Cre-SV40PY	AAV8.2
CMV-GFP-SV40Pa	AAV9
Syn-GFP-SV40Pa	AAV9
CMV-Cre-2A-tdTomato	AAV9
CMV-Cre-2A-GFP	AAV9
U6-Scrambled-CMV-GFP	AAV9
CK8-Cas9	AAV9
Luciferase	AAV2-7m8
Hcd11b-Cre	AAV9

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.