

AAV Transduction Efficiency Dependence on Serotype

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Cell lines/AAV Serotypes	AAV1	AAV2	AAV3	AAV4	AAV5	AAV6	AAV7	AAV8	AAV9
BJ Fibroblasts	+	+	+	-	-	+	-	-	+
BJ hTERT Fibroblasts	++	+	+	-	-	+	-	-	-
ES Cell	-	+	++	-	-	+	-	-	-
HUVEC	+++	+++	++	-	+	+++	+	+	+
Keratinocyte	++	+	+	-	-	+++	-	-	-
Hematopoietic Progenitor	-	-	-	-	-	+	-	-	-

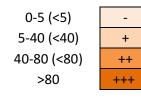
Human Primary Cell lines vs. AAV Serotypes

Human immortalized Cell lines vs. AAV Serotypes											
Cell lines/AAV Serotypes	AAV1	AAV2	AAV3	AAV4	AAV5	AAV6	AAV7	AAV8	AAV9		
CaCo-2	+	-	-	-	-	-	-	-	-		
HBEC	+++	+++	+++	-	+	+++	+	-	+		
HEK 293	++	+++	+++	-	-	++	+	+	+		
HeLa	+++	+++	+++	-	-	+++	+	+	+		
HepG2	++	++	++	-	-	++	-	-	-		
HT-29	+	+	-	+	-	+	-	-	-		
Jurkat	+	-	-	-	-	+	-	-	-		
K562	+	-	-	-	-	-	-	-	-		
MCF-7	+	+	+	-	-	-	-	-	+		
TF-1a	+	+	++	+	-	+	-	-	-		
Saos-2	++	+++	+++	++	-	+++	-	-	+		
U2OS	+++	+++	++	-	-	++	-	+	+		

Human Immortalized Cell lines vs. AAV Serotypes

Adapted from Ellis et al. A survey of ex vivo/in vitro transduction efficiency of mammalian primary cells and cell lines with Nine natural adeno-associated virus (AAV1-9) and one engineered adeno-associated virus serotype. Virology Journal. 2013. 10:74

Legend:



* The cells were analyzed by flow cytometry at 48 hours post-infection for the percentage that were GFP positive. MOI was used at 100,000 viral genomes (vg)/ cell. The number in the legend was the actual percentage of GFP positive cells with the particular serotype.

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