

Supplementary Data

Supplementary Table S1. Adeno-associated virus variants and assigned barcodes

No.	Capsid Variant	Six Nucleotide Barcode (N_6BC)
1	AAV1	AAAATT
2	AAV2	AAAGAC
3	AAV3b	AGATTA
4	AAV4	ACCTTT
5	AAV5	ACCAAA
6	AAV6	AATTCC
7	AAV7	CTCGTG
8	AAV8	AAATAT
9	AAV9	CATATG
10	AAV10	TCAACC
11	AAV11	TGTTTC
12	AAV12	TCATCC
13	AAV13	ACGGCT
14	AAVrh10	CGGCAC
15	AAVDJ	CTCCCG
16	AAVDJ/8	CCTCCG
17	AAVLK01	CTGTCC
18	AAVLK02	GGCACG
19	AAVLK03	CGCGAC
20	AAVLK19	ACCCAG
21	AAVNP22	ACAAAA
22	AAVNP40	TGATGT
23	AAVNP59	TAAGGT
24	AAVNP66	ATTGCT
25	AAVNP94	AAACGA
26	AAV7m8	TGCTTT
27	AAVAnc80	CAGGGA
28	AAVPHP.eB	CTTACT
29	AAV2i8	TTTGTT
30	AAV2retro	CAGGAG

AAV, adeno-associated virus.

Supplementary Table S2. Next-generation sequencing read counts for each sample

Experiment	Sample	Read Counts	
AAV Testing Kit	AAV Testing Kit	1710391	
	Immortalized cell lines, primary cells, iPSCs	HEK293T DNA	4084782
		HEK293T RNA	2877442
		HeLa DNA	3075522
		HeLa RNA	3511265
		HuH-7 DNA	2772365
		HuH-7 RNA	3169469
		T cell DNA	3460526
		T cell RNA	3391895
		Fibroblast DNA	3837633
		Fibroblast RNA	5029822
	iPSC DNA	4008496	
	iPSC RNA	5119096	
Nonhumanized FRG mouse	Liver DNA	4671634	
	Liver RNA	4063961	
	Brain DNA	464495	
	Brain RNA	494744	
	Heart DNA	455301	
	Heart RNA	569603	
	Lung DNA	401605	
	Lung RNA	430749	
	Spleen DNA	439382	
	Spleen RNA	402438	
	Kidney DNA	395052	
	Kidney RNA	333875	
	Skeletal muscle DNA	329627	
	Skeletal muscle RNA	331030	
	Smooth muscle DNA	372909	
	Smooth muscle RNA	218869	
	Humanized FRG mouse	Human liver DNA	4880511
Human liver RNA		3325766	
Mouse liver DNA		4253675	
Mouse liver RNA		3218491	
Brain DNA		392023	
Brain RNA		282005	
Heart DNA		367533	
Heart RNA		529112	
Lung DNA		463459	
Lung RNA		522590	
Spleen DNA		251615	
Spleen RNA		623892	
Kidney DNA		420265	
Kidney RNA	629129		
Skeletal muscle DNA	378774		
Skeletal muscle RNA	355439		
Smooth muscle DNA	401062		
Smooth muscle RNA	50232		