

General Vector list 1

1

**Lentiviral ORF cDNA expression vector**

5'-LTRt—Pack1--Prom-cDNA-Tag—(T2A)-(PGK)-(Reporter)-(P2A)-(Selection)--Pack2--3'-LTRt-PolyA--Amp<sup>R</sup>  
 (size 6.8-9.0 kb)

CMV	V5, Flag,	GFP, RFP	Puromycin
eEF1α	Myc, HA,	Luciferase	Blasticidin
MSCV	Twin-Strep-Tag II.		

2

**Lentiviral TF/ Promoter reporter vector**

5'-LTRt—Pack1--(EF1α-Selection)-----(Enhancer)-TF binding--TATA-Reporter--Pack2--3'-LTRt-PolyA-Amp<sup>R</sup>  
 (size 6.5-8.0 kb)

Puromycin	GFP, RFP
Blasticidin	Luciferase

3

**Lentiviral shRNA/miRNA/sgRNA expression vector**

5'-LTRt—Pack1—U6—shRNA/miRNA/sgRNA—PGK-(Reporter)—P2A-Selection-Pack2--3'-LTRt--PolyA-Amp<sup>R</sup>  
 (size 7-9 kb)

hU6	GFP, RFP	Puromycin
mU6	Luciferase	Blasticidin

4

**AAV ORF cDNA expression vector**

5'-AAV8 ITR-----Prom-----cDNA---Tag----hGH polyA--WPRE-3'-AAV8 ITR--Amp<sup>R</sup>  
 AAV2 ITR CBA, PGK V5 AAV2 ITR  
 (size 5.4-5.6) eEF1a, SYN (Capacity 2-3.5kb)

5

**AAV shRNA/miRNA/sgRNA expression vector**

5'-AAV8 ITR— hU6 ---shRNA/miRNA/sgRNA—PGK--Reporter—hGH polyA--WPRE-3'-AAV8 ITR--Amp<sup>R</sup>  
 AAV2 ITR GFP, RFP AAV2 ITR  
 (size 6.0 kb) (Capacity 3.0 kb)

6

**Non-viral ORF cDNA expression vector**

CMV- MCS1-Tag--(MCS2)—(P2A)-(Reporter)—PolyA—Neomycin---Amp<sup>R</sup>  
 ↓ GFP, RFP  
 V5, Flag, Myc HA, His, GFP, RFP, P2A, T2A,  
 Pr-Linker, IgG1Fc, Twin-Strep-Tag II (size 5.5-6.5 kb)