

Lentiviral TF/ Promoter Reporter Vector

5'-LTR—Package1--(EF1 α -**Selection**)------(Enhancer)-TF binding--TATA-**Reporter**-PolyA-Package2--3'-LTR--Amp^R

Puromycin
Blasticidin

GFP
RFP
Luciferase

(Size: 6.5-8.0 kb)

	Vector Name	Promoter	Enhancer	Reporter	Selection	Size (kb)
1.	pc-TAG-BSD	EF1a	pc	GFP	BSD	7.1
2.	pc-TAG-Puro	EF1a	pc	GFP	Puro	7.3
3.	pc-TAR-BSD	EF1a	pc	RFP	BSD	7.1
4.	pc-TAR-Puro	EF1a	pc	RFP	Puro	7.3
5.	pc-TAL-BSD	EF1a	pc	Luc	BSD	7.8
6.	pc-TAL-Puro	EF1a	pc	Luc	Puro	8.0
7.	pc-FS-TAG-BSD	EF1a	pc & SP1	GFP	BSD	7.1
8.	pc-FS-TAR-BSD	EF1a	pc & SP1	RFP	BSD	7.1
9.	pc-FS-TAG-Puro	EF1a	pc & SP1	GFP	Puro	7.3
10.	pc-FS-TAR-Puro	EF1a	pc & SP1	RFP	Puro	7.3
11.	pc-NEV	N/A	pc	GFP	N/A	6.5
12.	TAG-Prom-Puro	EF1a	N/A	GFP	Puro	7.3
13.	TAR-Prom-Puro	EF1a	N/A	RFP	Puro	7.3
14.	TAL-Prom-Puro	EF1a	N/A	Luc	Puro	8.0
15.	TAG-TF/Prom	N/A	N/A	GFP	N/A	6.5

Abbreviations: pc, minimum enhancer from CMV; SP1, SP1 transcription factor consensus binding element; Luc, Luciferase; BSD, Blasticidin; Puro, Puromycin.

Lentiviral cDNA Expression Vector

5'-LTR—Package1--Prom-cDNA-Tag—(T2A)-(PGK)-(Reporter)-(P2A)-(Selection)-PolyA--Package2--3'-LTR--Amp^R

CMV	V5	GFP	Puromycin
EF1 α	Flag	RFP	Blasticidin
	Myc	Luciferase	
	HA		

(Size: 7.0-9.0 kb)

	Vector Name	Prom 1	Tag	Prom 2	Reporter	Selection	T2A/P2A	Size (kb)
1.	MCS9-V5-BSD	CMV	V5	N/A	N/A	BSD	P2A	7.0
2.	MCS9-V5-Puro	CMV	V5	N/A	N/A	Puro	P2A	7.2
3.	MCS9-Flag-BSD	CMV	Flag	N/A	N/A	BSD	P2A	7.0
4.	MCS9-Flag-Puro	CMV	Flag	N/A	N/A	Puro	P2A	7.2
5.	EF1a/9-Flag-BSD	EF1a	Flag	N/A	N/A	BSD	P2A	7.0
6.	EF1a/9-Flag-Puro	EF1a	Flag	N/A	N/A	Puro	P2A	7.2
7.	MCS9-V5-GFP	CMV	V5	N/A	GFP	N/A	P2A	7.3
8.	MCS9-V5-RFP	CMV	V5	N/A	RFP	N/A	P2A	7.3
9.	MCS9-Flag-GFP	CMV	Flag	N/A	GFP	N/A	P2A	7.3
10.	MCS9-Myc-GFP	CMV	Myc	N/A	GFP	N/A	P2A	7.3
11.	MCS9-HA-GFP	CMV	HA	N/A	GFP	N/A	P2A	7.3
12.	EF1a/9-V5-GFP	EF1a	V5	N/A	GFP	N/A	P2A	7.3
13.	EF1a/9-V5-RFP	EF1a	V5	N/A	RFP	N/A	P2A	7.3
14.	MCS5-V5-GK-BSD	CMV	V5	PGK	GFP	BSD	P2A	8.3
15.	MCS5-V5-GKR-BSD	CMV	V5	PGK	RFP	BSD	P2A	8.3
16.	MCS5-V5-GK-Puro	CMV	V5	PGK	GFP	Puro	P2A	8.5
17.	MCS5-V5-GKR-Puro	CMV	V5	PGK	RFP	Puro	P2A	8.5
18.	MCS9-V5-Puro-Luc	CMV	V5	N/A	Luc	Puro	Both	9.0
19.	MCS9-V5-BSD-Luc	CMV	V5	N/A	Luc	BSD	Both	8.8
20.	MCS9-V5-GFP-BSD	CMV	V5	N/A	GFP	BSD	Both	7.9
21.	MCS9-V5-RFP-BSD	CMV	V5	N/A	RFP	BSD	Both	7.9
22.	MCS9-V5-GFP-Puro	CMV	V5	N/A	GFP	Puro	Both	8.1
23.	MCS9-V5-RFP-Puro	CMV	V5	N/A	RFP	Puro	Both	8.1
24.	EF1a/9-V5-GFP-Puro	EF1a	V5	N/A	GFP	Puro	Both	8.1
25.	EF1a/9-V5-RFP-Puro	EF1a	V5	N/A	RFP	Puro	Both	8.1

Abbreviations: Luc, Luciferase; BSD, Blasticidin; Puro, Puromycin; Prom, promoter

Lentiviral shRNA/miRNA Expression Vector

5'-LTR—Package1—**U6**—shRNA/miRNA—(PGK-**Reporter**-P2A-**Selection**)-PolyA--Package2--3'-LTR--Amp^R

hU6
mU6

GFP
RFP
Luciferase

Puromycin
Blasticidin

(Size: 8.0-9.4 kb)

	Vector Name	Prom	Reporter	Selection	Size (kb)
1.	U6-GK-BSD	hU6	GFP	BSD	8.0
2.	U6-GKR-BSD	hU6	RFP	BSD	8.0
3.	U6-GK-Puro	hU6	GFP	Puro	8.2
4.	U6-GKR-Puro	hU6	RFP	Puro	8.2
5.	U6-GK-Luc	hU6	GFP & Luc	N/A	9.4
6.	U6-GKR-Luc	hU6	RFP & Luc	N/A	9.4
7.	mU6-GK-BSD	mU6	GFP	BSD	8.0
8.	mU6-GK-Puro	mU6	GFP	Puro	8.2
9.	hU6-BSD	hU6	N/A	BSD	7.3
10.	hU6-Puro	hU6	N/A	Puro	7.5

Abbreviations: Luc, Luciferase; BSD, Blasticidin; Puro, Puromycin; Prom, promoter; h, human; m, mouse

AAV8 cDNA/shRNA/miRNA Expression Vector

5'-AAV ITR—Package1--**Prom**-----Gene-----**Reporter**-----PolyA--Package2--3'-AAV8 ITR--Amp^R

CBA	cDNA	V5
hU6	shRNA/ miRNA	GFP RFP

(Size: 5.4-5.6 kb)

	Vector Name	Promoter	Insert Type	Tag	Reporter	Size (kb)
1.	AAV-CBA-V5	CBA	cDNA	V5	N/A	5.4
2.	AAV-hU6-GFP	hU6	shRNA/miRNA	N/A	GFP	5.6
3.	AAV-hU6-RFP	hU6	shRNA/miRNA	N/A	RFP	5.6

Abbreviations: h, human; Prom, promoter.

Non-viral cDNA Expression Vector

CMV- MCS1-**Tag**--(MCS2)—(P2A)-(Reporter)—PolyA—Neomycin^R—Amp^R



V5, Flag, Myc, HA,
His, P2A, T2A, GFP,
RFP, Pr-linker

GFP
RFP

(Size: 5.5-6.3 kb)

	Vector Name	N-Tag/C-Tag	Reporter	P2A/T2A	Size (kb)
1.	LcDNA-V5	N or C (V5)	N/A	N/A	5.5
2.	LcDNA-Flag	N or C (Flag)	N/A	N/A	5.5
3.	LcDNA-Myc	N or C (Myc)	N/A	N/A	5.5
4.	LcDNA-HA	N or C (HA)	N/A	N/A	5.5
5.	LcDNA-His	N or C (His)	N/A	N/A	5.5
6.	LcDNA-P2A	N/A	N/A	P2A	5.5
7.	LcDNA-T2A	N/A	N/A	T2A	5.5
8.	LcDNA-GFP	N or C (GFP)	N/A	N/A	6.2
9.	LcDNA-RFP	N or C (RFP)	N/A	N/A	6.2
10.	LcDNA-V5-GFP	C (V5)	GFP	P2A	6.3
11.	LcDNA-V5-RFP	C (V5)	RFP	P2A	6.3
12.	LcDNA-Flag-GFP	C (Flag)	GFP	P2A	6.3
13.	LcDNA-Pr-linker	N/A	N/A	N/A	5.5

Abbreviations: N, N-terminal; C, C-terminal; Pr-linker, protein linker