

1 Lentiviral sgRNA-Cas9 Expression Vector

5'-LTRt—Pack1—hU6—sgRNA—PGK—Cas9---P2A--Reporter---Pack2--3'-LTRt-PolyA-Amp^R
 (size 10.3-11.2 kb) Sa, Sp GFP, RFP, Puro, BSD

2 Lentiviral Strep-BioID Expression Vector

5'-LTRt-Pack1-CMV---ORF-Twin-Strep-II-BioID—P2A--Puro--Pack2--3'-LTRt-PolyA--Amp^R
 (size 8.0 kb)

3 Lentiviral Tet-on Strep-BioID Expression Vector (all-in-one)

5'-LTRt-Pack1-TRECMV--ORF- Twin-Strep-II-BioID—PGK-Puro-T2A-rtTA--Pack2--3'-LTRt--PolyA--Amp^R
 (size 8.0 kb)

4 Lentiviral Tet-on ORF cDNA Expression Vector (all-in-one)

5'-LTRt-Pack1-TRECMV—ORF-V5—PGK-Puro-T2A-rtTA--Pack2--3'-LTRt-PolyA-Amp^R
 (size 8.0 kb)

5 Lentiviral Fc fusion protein Expression Vector

5'-LTRt-Pack1-CMV---ORF—IgG1-Fc—PGK-GFP-P2A-Puro--Pack2--3'-LTRt-PolyA--Amp^R
 (size 7.5 kb) Human, mouse

6 Retroviral cDNA Expression Vector

5'-LTR—MESV package--eEF1a---cDNA-V5—P2A--GFP—WPRE--3'-LTR—PolyA--Amp^R
 (size 7.0 kb)

7 AAV sgRNA-Cas9 Expression Vector

5'-AAV8 ITR—hU6-sgRNA--PGK—SaCas9---hGH polyA--AAV8 ITR--Amp^R
 AAV2 ITR AAV2 ITR (size 8.0 kb)

8 AAV Cre Expression Vector

5'-AAV8 ITR-----Prom-----Cre-P2A--Reporter---hGH polyA--WPRE--3'-AAV8 ITR--Amp^R
 AAV2 ITR CBA, PGK GFP, RFP AAV2 ITR
 (size 5.4-6.5 kb) eEF1a, SYN, etc (Capacity 1.5 kb)