

Attachment 1, Plasmid maps

Source Plasmids for mmVASH2, mmCCP1 and TTL Cloning

All plasmids except „FLAG-V2-sfGFP-His“, „TTL+pWPT“ and p221_mmCCP1 were sourced from Addgene (U.S.A.)

„FLAG-V2-sfGFP-His“

Kindly provided by Marie-Jo Moutin Lab, Institute of Neurosciences, Grenoble

Plasmid map:

This plasmid was not annotated. Region identified as mouse VASH2 and SVBP is marked in the Sequence in dark blue and light blue, respectively. MmVASH2 is supposed to continue with sfGFP and His tag. SVBP is preceded by an internal ribosomal entry site (IRES). IRES-SVBP PCR fragment is marked with the underline.

Sequence:

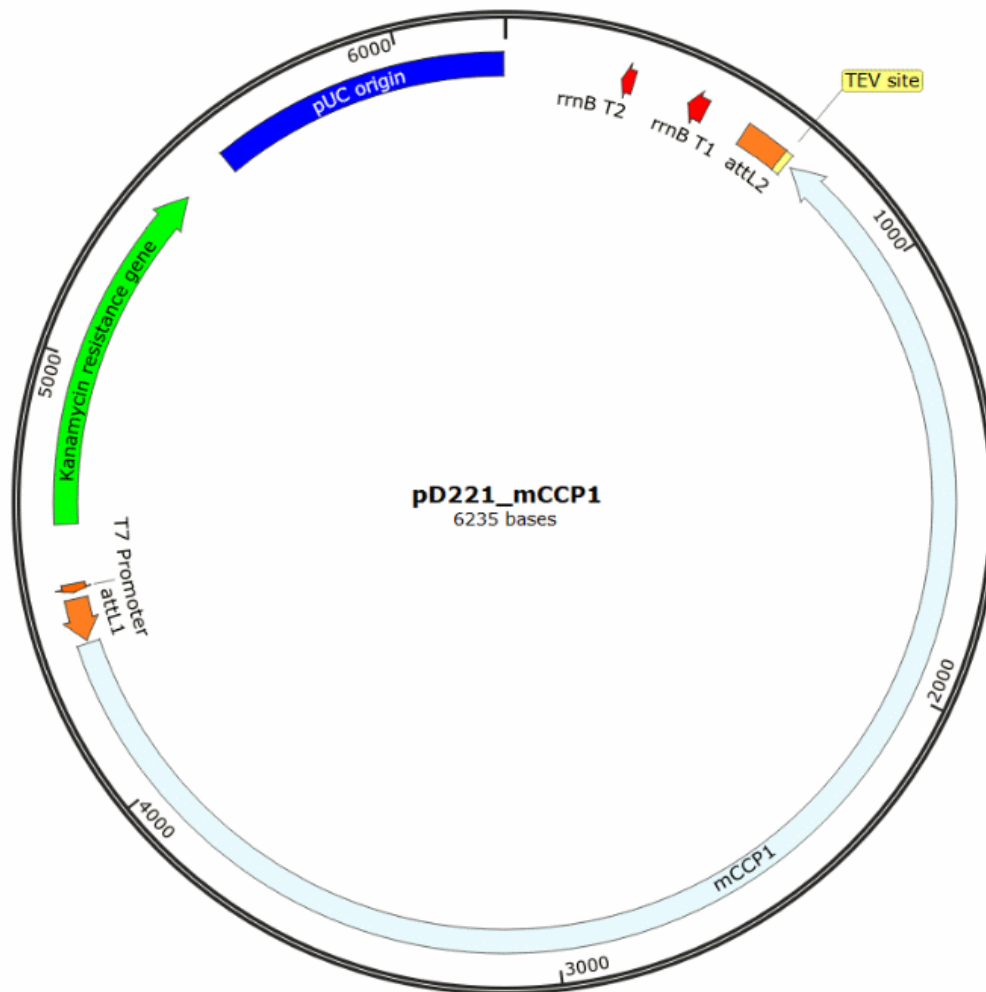
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p221_mmCCP1

This plasmid was kindly provided by the home laboratory.

Plasmid map:

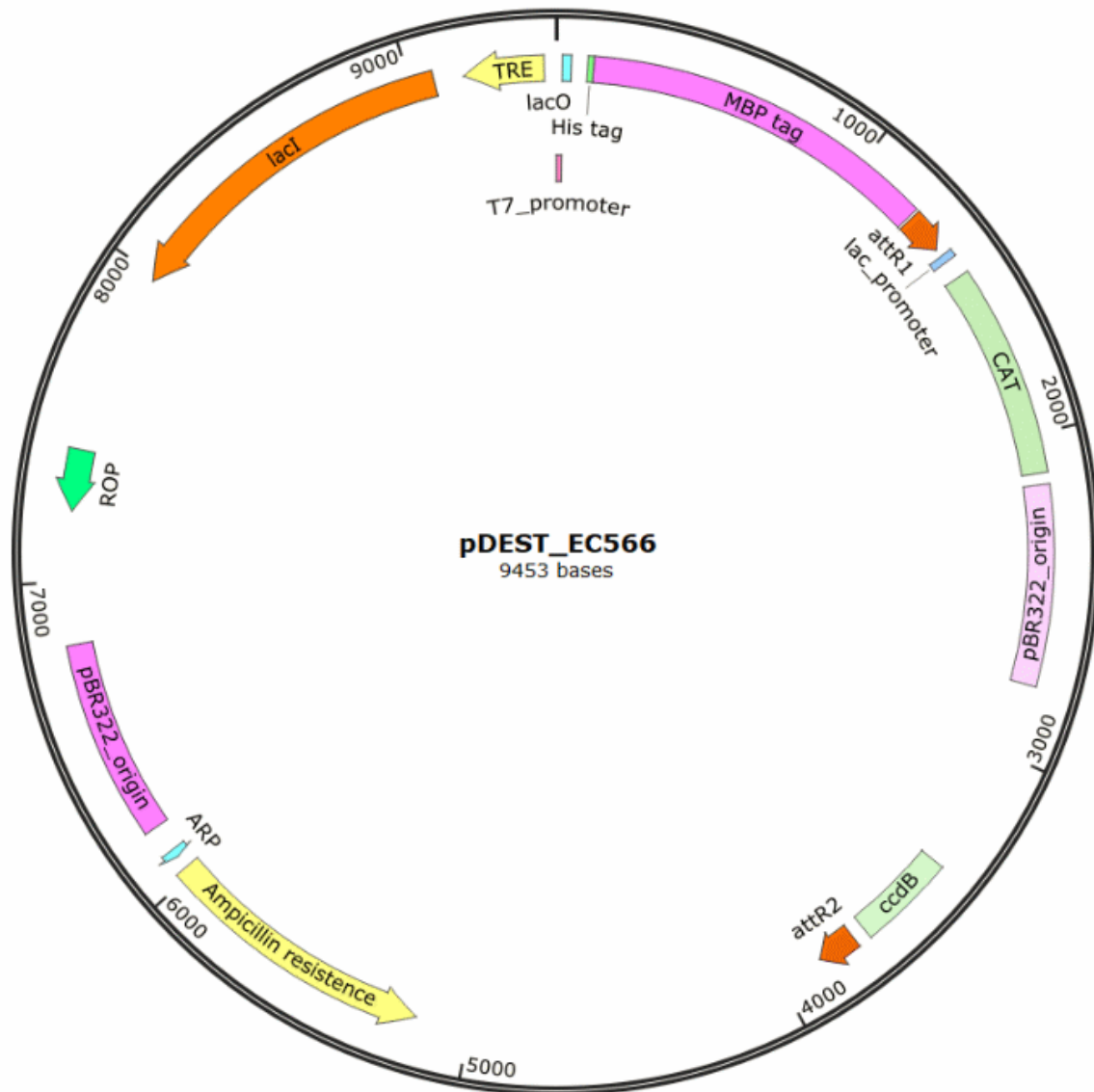


Attachment1, Figure 1: pDONR 221

attP1 and attP2: sites for Gateway recombination; pUC: plasmid of the University of California; rrnB: relapsing/refractory neuroblastoma B T1 and T2 transcription termination sequence; Figure created with SnapGene software (www.snapgene.com)

pDEST EC566

Plasmid map:

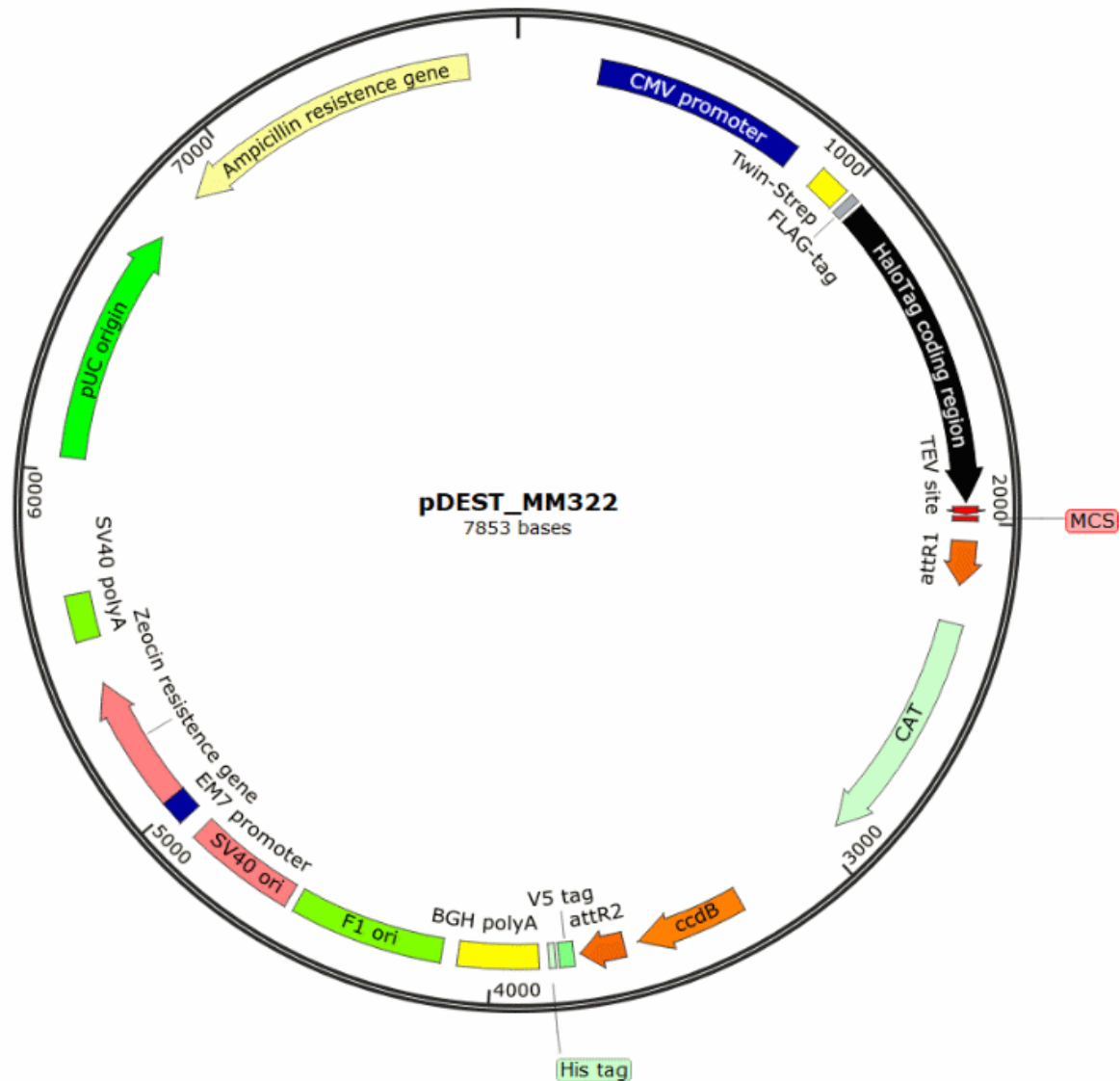


Attachment1, Figure 2: pDEST EC566

ARP: Ampicillin resistance promoter; attP1 and attP2: sites for Gateway recombination; CAT: Chloramphenicol acetyltransferase; ccdB: control of cell death gene; lacI: lactose operon inhibitor; lacO: lac operator; pBR322_origin: plasmid of Bolivar Zapata; ROP: repressor of primer protein; TRE: tetracycline responsive element; Figure created with SnapGene software (www.snapgene.com)

pDEST MM322

Plasmid map:

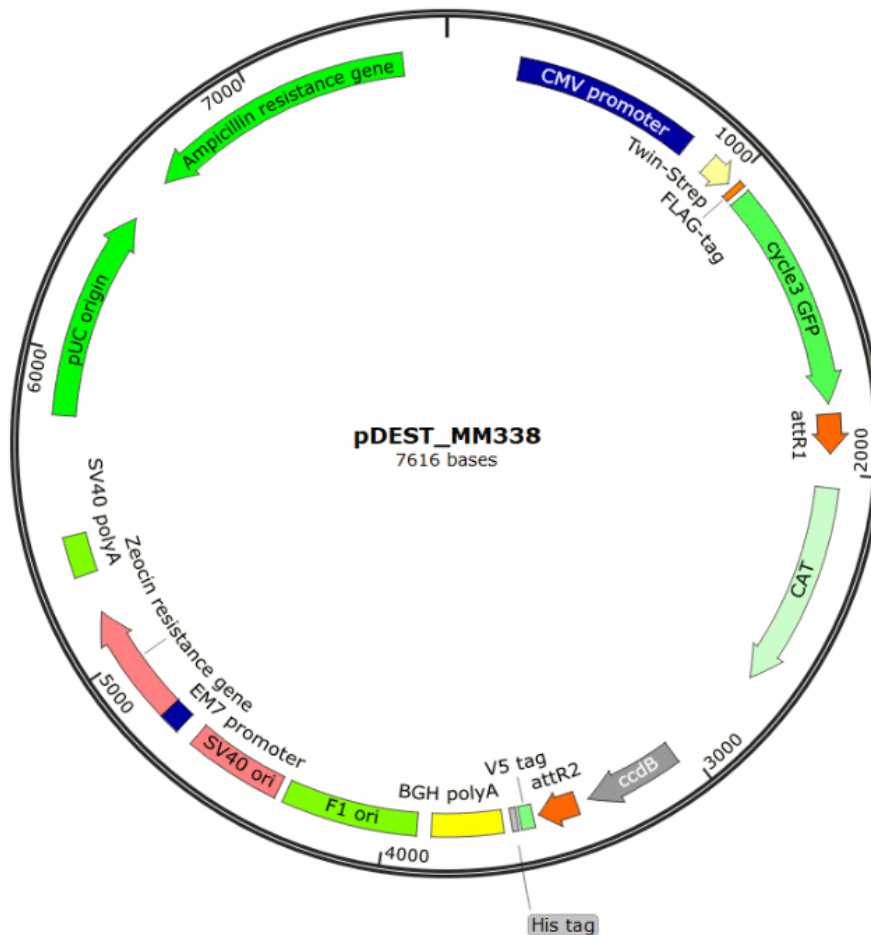


Attachment1, Figure 3: pDEST EC566

attP1 and attP2: sites for Gateway recombination; BGH poly A: bovine growth hormone polyadenylation signal; CAT: Chloramphenicol acetyltransferase; ccdB: control of cell death gene; CMV promoter: cytomegalovirus promoter; F1 ori: F1 phage derived origin of replication; SV40 ori: simian vacuolating virus 40 (SV40) derived origin of replication; SV40 polyA: SV40 derived polyadenylation signal; TEV site: gene for protein sequence cleavable by Tobacco Etch Virus protease; Figure created with SnapGene software (www.snapgene.com)

pDEST MM338

Plasmid map:

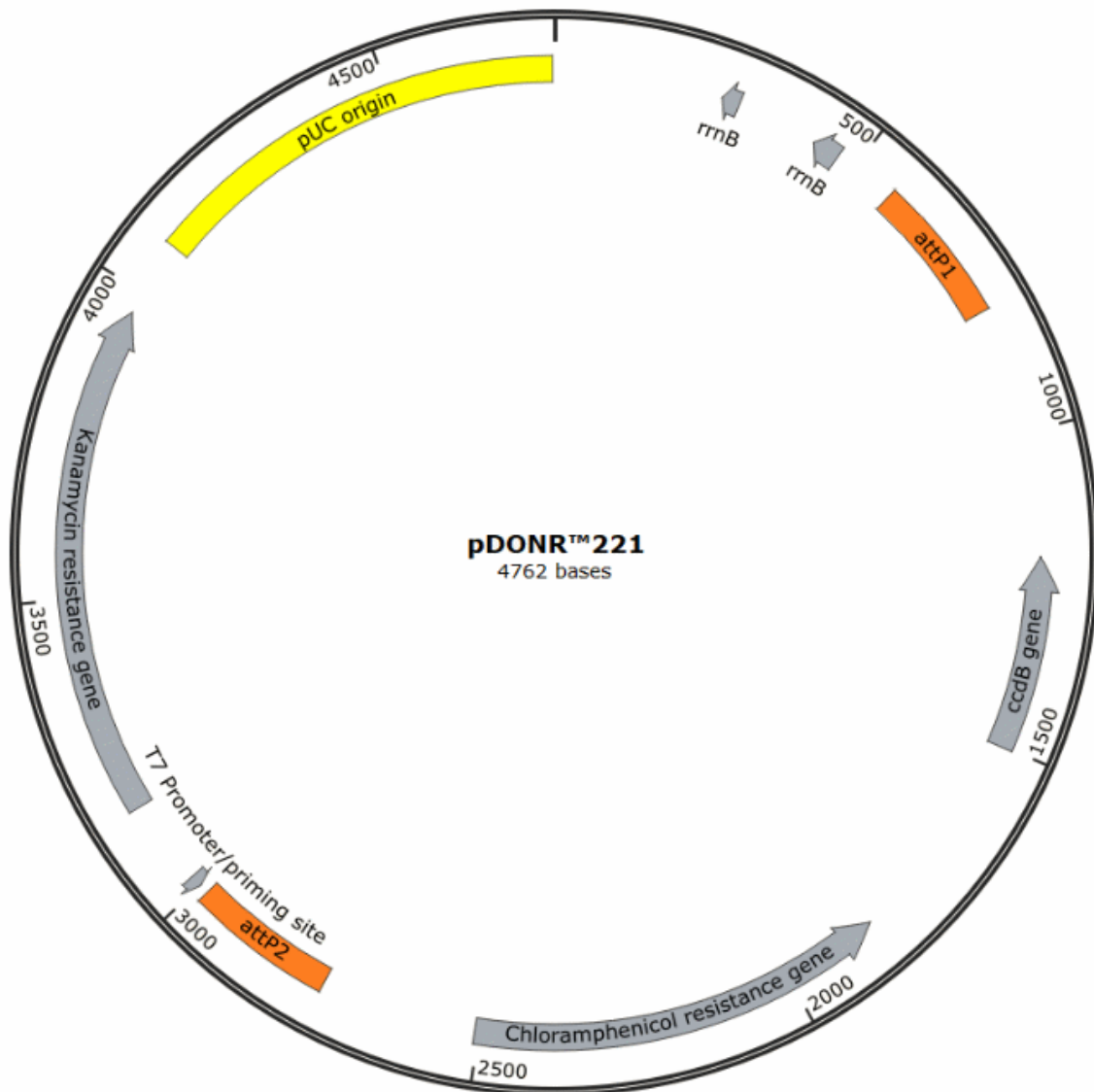


Attachment1, Figure 4: pDEST EC566

attP1 and attP2: sites for Gateway recombination; BGH poly A: bovine growth hormone polyadenylation signal; CAT: Chloramphenicol acetyltransferase; ccdB: control of cell death gene; CMV promoter: cytomegalovirus promoter; F1 ori: F1 phage derived origin of replication; SV40 ori: simian vacuolating virus 40 (SV40) derived origin of replication; SV40 polyA: SV40 derived polyadenylation signal; Figure created with SnapGene software (www.snapgene.com)

pDONR 221

Plasmid map:

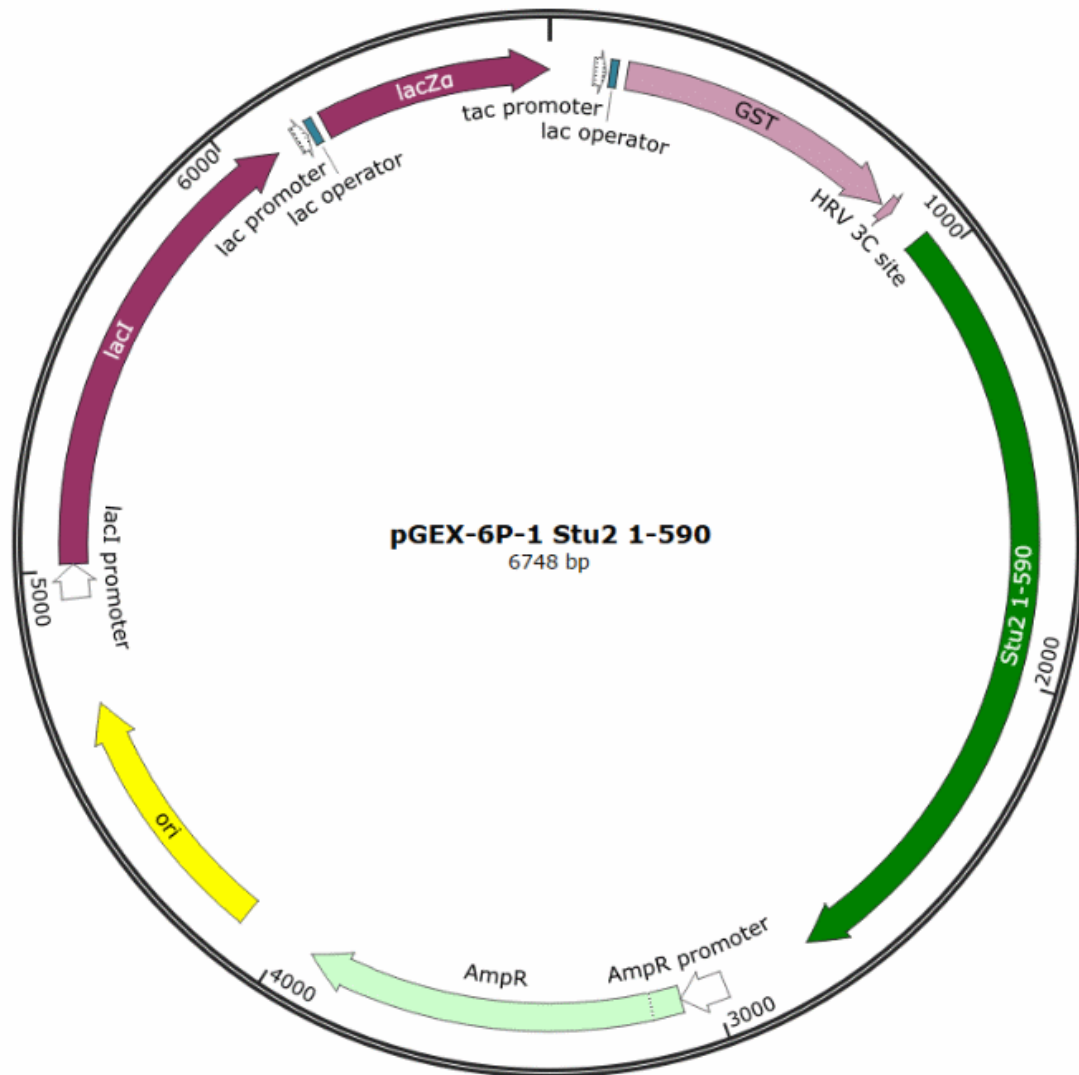


Attachment1, Figure 5: pDONR 221

attP1 and attP2: sites for Gateway recombination; ccdB gene: control of cell death gene; pUC: plasmid of the University of California; rrnB: relapsing/refractory neuroblastoma B T1 and T2 transcription termination sequence; Figure created with SnapGene software (www.snapgene.com)

pGEX-6P Stu2 1-590

Plasmid map:



Attachment 1, Figure 6: pGEX-6P Stu2 1-590

GST: Glutathione-S-Transferase, AmpR: ampicillin resistance gene, lacI: lac repressor, lacZα: β galactosidase; Figure created with SnapGene software (www.snapgene.com)

pHR-CMV-TetO2_3C-Avi-His6

Plasmid map:

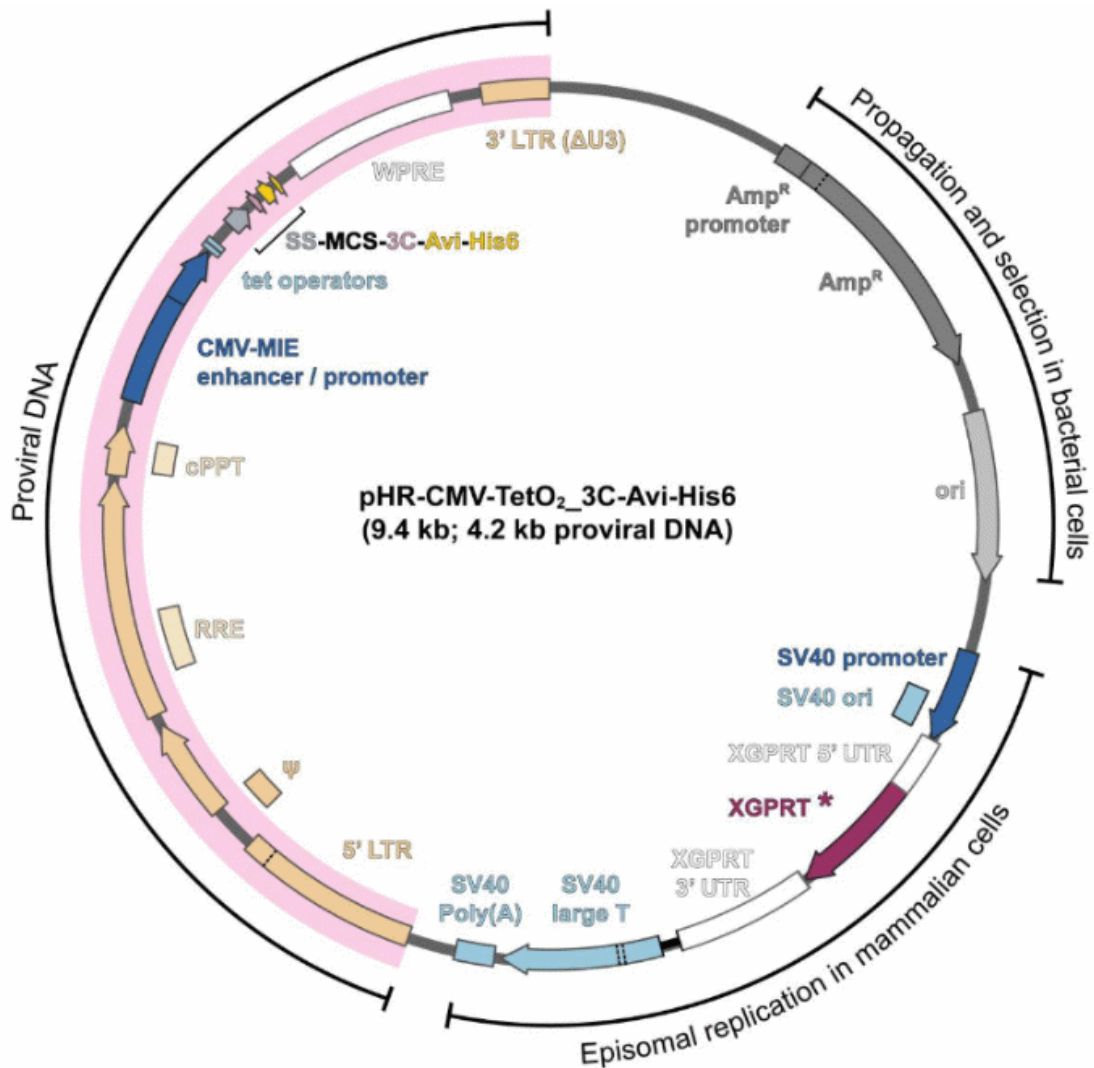


Figure 7: pHR-CMV-TetO2_3C-Avi-His6

LTR: long-terminal repeat; ψ : psi packaging signal; RRE: Rev response element; cPPT: central polypurine tract; CMV-MIE: major immediate early cytomegalovirus enhancer/promoter; SS: signal sequence; MCS: multiple cloning site; 3C: Human Rhinovirus (HRV) 3C protease cleavage site; Avi: Avi-tag; His6: His6-tag; WPRE: Woodchuck Hepatitis Virus posttranscriptional regulatory element; $\Delta U3$: U3 deletion in the 3' LTR; Amp^R: Ampicillin resistance gene; ori: origin of replication; SV40: Simian vacuolating virus 40; XGPRT: xanthine-guanine phosphoribosyltransferase; UTR: untranslated region; the genetic elements flanked by the 5' and 3' LTRs will be stably integrated into the host cell genome as proviral DNA and are highlighted in pink; Figure taken from (Elegheert, 2018)

pHR-CMV-TetO2_3C-Twinstrep_EmGFP

Plasmid map:

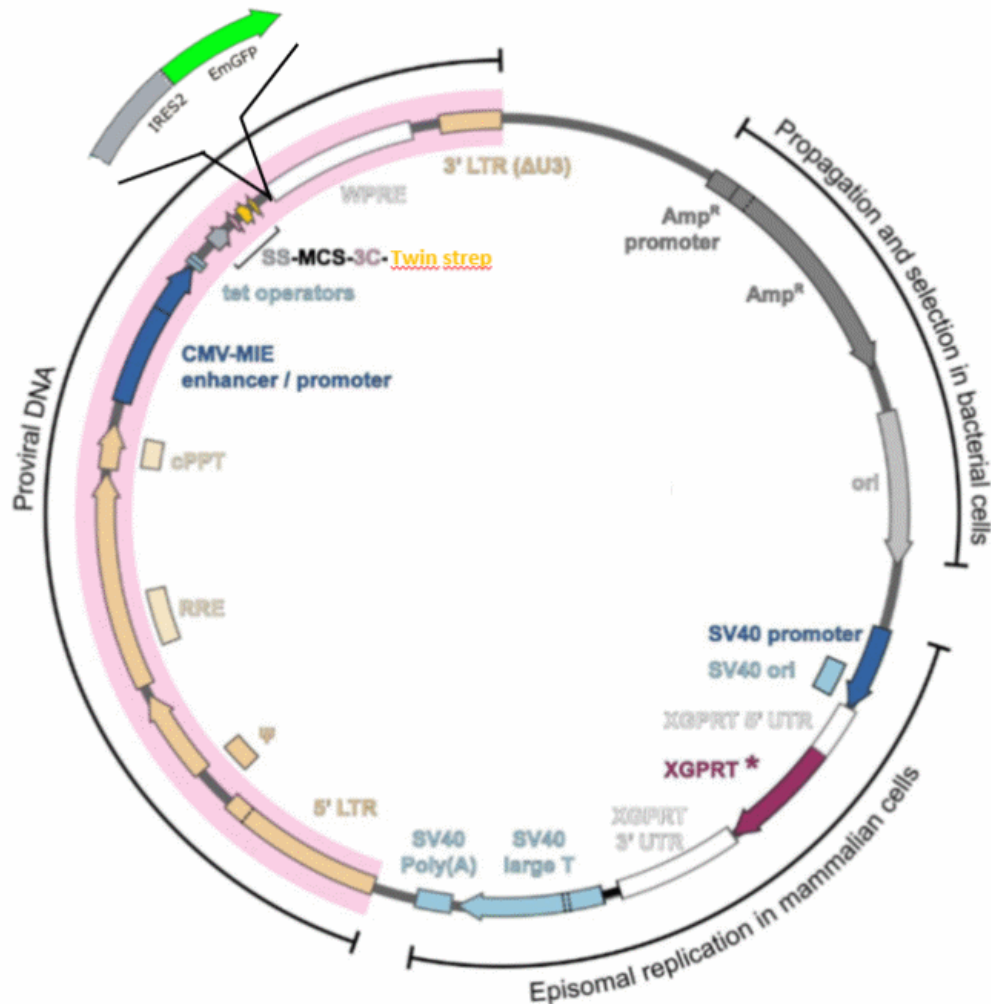


Figure 8: pHR-CMV-TetO2_3C-Twinstrep_EmGFP

LTR: long-terminal repeat; ψ : psi packaging signal; RRE: Rev response element; cPPT: central polypurine tract; CMV-MIE: major immediate early cytomegalovirus enhancer/promoter; SS: signal sequence; MCS: multiple cloning site; 3C: Human Rhinovirus (HRV) 3C protease cleavage site; Avi: Avi-tag; His6: His6-tag; IRES2: internal ribosomal binding site; EmGFP: Emerald green fluorescent protein; WPRE: Woodchuck Hepatitis Virus posttranscriptional regulatory element; $\Delta U3$: U3 deletion in the 3' LTR; Amp^r: Ampicillin resistance gene; ori: origin of replication; SV40: Simian vacuolating virus 40; XGPRT: xanthine-guanine phosphoribosyltransferase; the genetic elements flanked by the 5' and 3' LTRs will be stably integrated into the host cell genome as proviral DNA and are highlighted in pink; Figure modified from (Elegheert, 2018)

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