

Supplementary Data 5. Sequence of the plasmid containing loxP_tagBFP-loxP_mCherry-NTR- flp-kan-flp used as a template for recombineering.

LOCUS	loxP-myctagBFP-STOP-lox-mCherryNTR fl Kan	7515 bp
ds-DNA	circular SYN 30-AGO-2016	
DEFINITION	synthetic circular DNA	

REFERENCE 1 (bases 1 to 7515)
AUTHORS .
TITLE Direct Submission
JOURNAL Exported martes, 30 de ago de 2016 from SnapGene Viewer 3.0.3
<http://www.snapgene.com>

FEATURES	Location/Qualifiers
source	1..7515 /organism="synthetic DNA construct" /mol_type="other DNA"
misc_feature	432..465 /label=LoxP /note="LoxP"
misc_feature	466..472 /label=kozak /note="kozak"
misc_feature	473..475 /label=ATG /note="ATG"
misc_feature	476..505 /label=myc /note="myc"
misc_feature	506..1225 /label=tagBFP /note="tagBFP"
misc_feature	1226..1729 /label=Rabbit beta globin terminator /note="Rabbit beta globin terminator"
misc_feature	1730..1763 /label=LoxP(1) /note="LoxP(1)"
misc_feature	1778..1784 /label=kozak(1) /note="kozak(1)"
misc_feature	1785..2493 /label=mCherry /note="mCherry"
misc_feature	2494..2543 /label=Linker /note="Linker"
misc_feature	2544..3197 /label=NTR /note="NTR"
misc_feature	3216..3454 /label=SV40 polIA /note="SV40 polIA"
misc_feature	3491..3525 /label=FRT /note="FRT"
misc_feature	3780..3918 /label=Sv40 polIA /note="Sv40 polIA"
misc_feature	3969..4761 /label=KanR /note="KanR"
misc_feature	4842..4876 /label=FRT(1) /note="FRT(1)"

ORIGIN

1	tcgcgcggtt	cggtgatgac	ggtgaaaacc	tctgacacat	gcagctcccc	gagacgggtca
61	cagcttgtct	gtaagcggat	gccgggagca	gacaagcccc	tcagggcgcg	tcagcgggtg
121	ttggcgggtg	tcggggctgg	cttaactatg	cggcatcaga	gcagattgta	ctgagagtgc

Supplementary Data 4

181	accatatgcg	gtgtgaaata	cgcacagat	gcgtaaggag	aaaataccgc	atcaggcgcc
241	attcgccatt	caggctgcgc	aactgttggt	aagggcgatc	ggtgcggg	tcttcgctat
301	tacgccagct	ggcgaaaagg	ggatgtgctg	caaggcgatt	aagttgggta	acgccagggt
361	tttcccagtc	acgacgttgt	aaaacgacgg	ccagtgccaa	gctcggcgcg	ccggggaccg
421	gtggatccac	tataacttcg	tatagcatac	attatacgaa	gttatcgcca	ccatggagca
481	gaagctgatc	tcagaggagg	acctgatgag	cgagctgatt	aaggagaaca	tgcacatgaa
541	gctgtacatg	gagggcaccg	tggacaacca	tcacttcaag	tgcacatccg	agggcggaagg
601	caagccctac	gagggcaccc	agaccatgag	aatcaagggtg	gtcgaaggcg	gccctctccc
661	cttcgccttc	gacatcctgg	ctactagctt	cctctacggc	agcaagacct	tcatacaacca
721	cacccagggc	atccccgact	tcttcaagca	gtccttccct	gagggcttca	catgggagag
781	agtcaccaca	tacgaagacg	ggggcggtgt	gaccgctacc	caggacacca	gcctccagga
841	cggctgcctc	atctacaacg	tcaagatcag	aggggtgaac	ttcacatcca	acggccctgt
901	gatgcagaag	aaaacactcg	gctgggaggc	cttcaccgag	acgctgtacc	ccgctgacgg
961	cggcctggaa	ggcagaaaag	acatggccct	gaagctcgtg	ggcgggagcc	atctgatcgc
1021	aaacatcaag	accacatata	gatccaagaa	acccgctaag	aacctcaaga	tgcctggcgt
1081	ctactatgtg	gactacagac	tggaaagaat	caaggaggcc	aacaacgaga	cctacgtcga
1141	gcagcacgag	gtggcagtg	ccagatactg	cgacctccct	agcaaaactg	ggcacaagct
1201	taattaaagc	ggccgcactc	ctcaggtgca	ggctgcctat	cagaagggtg	tggctgggtg
1261	ggccaatgcc	ctggctcaca	aataccactg	agatcttttt	ccctctgcca	aaaattatgg
1321	ggacatcatg	aagccccctg	agcatctgac	ttctggctaa	ttaaaggaaat	ttattttcat
1381	tgcaatagtg	tggttgaatt	ttttgtgtct	ctcactcgga	aggacatatg	ggagggcaaa
1441	tcatttaaaa	catcagaatg	agtattttgt	ttagagtgtg	gcaacatatg	cccatatgct
1501	ggctgccatg	aacaaagggt	ggctataaag	aggtcatcag	tatatgaaac	agccccctgc
1561	tgtccattcc	ttattccata	gaaaagcctt	gacttgagggt	tagatttttt	ttatattttg
1621	ttttgtgtta	tttttttctt	taacatccct	aaaatttttc	ttacatgttt	tactagccag
1681	atttttcctc	ctctcctgac	tactcccggt	catagctgtc	cctcttctca	taacttcgta
1741	tagcatacat	tatacgaagt	tatcggatcc	catcgatcgc	caccatgggtg	agcaagggcg
1801	aggaggataa	catggccatc	atcaaggagt	tcattgcgctt	caagggtgcac	atggagggct
1861	ccgtgaacgg	ccacgagttc	gagatcgagg	gcgagggcga	gggcccgc	tacgagggca
1921	cccagaccgc	caagctgaag	gtgaccaagg	gtggccccct	gcccttcgcc	tgggacatcc
1981	tgtccccctc	gttcatgtac	ggctccaagg	cctacgtgaa	gcaccccgcc	gacatccccg
2041	actacttgaa	gctgtccttc	cccgagggtc	tcaagtggga	gcgcgtgatg	agccttcgag
2101	acggcgggcgt	ggtgaccgtg	acccaggact	cctccctgca	ggacggcgag	ttcatctaca
2161	aggtgaagct	gcgcggcacc	aacttcccct	ccgacggccc	cgtaatgcag	agaagacca
2221	tgggctggga	ggcctcctcc	gagcggatgt	accccgagga	cggcgcctg	aagggcgaga
2281	tcaagcagag	gctgaagctg	aaggacggcg	gccactacga	cgctgagggtc	aagaccacct
2341	acaaggccaa	gaagcccgtg	cagctgcccc	gcgcctacaa	cgtcaacatc	aagttggaca
2401	tcacctccca	caacgaggac	tacaccatcg	tggaaacagta	cgaacgcgc	gagggccgcc
2461	actccaccgg	cggcatggac	gagctgtaca	agtccggact	cagatctcga	gctcaagctt
2521	cgaattcagg	cggcggcgcc	gccatggaca	tcattctctgt	ggctctgaag	agacatagca
2581	caaaggcttt	tgatgccagc	aagaaactga	cccctgagca	ggctgagcag	atcaagacac
2641	tgctgcagta	cagcccaagc	agccagaaca	gccagccttg	gcattttatt	gtggcttcta
2701	cagaggaggg	aaaggctaga	gtggcttaagt	ctgtgtctgg	aaattatgtg	ttctctgaga
2761	gaaagatgct	ggatgcctct	catgtgtgtg	tggtctgtgc	taagacagcc	atggatgatg
2821	tgtggctgaa	actggtggtg	gaccaggagg	atgtctgatg	aagatttgcc	acacctgagg
2881	ctaaggctgc	taatgataag	ggaagaaagt	tcacagctga	tatgcacaga	aaggacctgc
2941	atgatgatgc	tgagtggatg	gctaagcagg	tgtatctgaa	tgtgggaaac	ttcctgtctg
3001	gagtggtctg	tctgggactg	gatgtgtgtc	ctattgaggg	atttgatgtc	gctatcctgg
3061	atgctgagtt	tggaactga	gagaaggagt	acaccagcct	gggtggtggtg	ccagtgggac
3121	accactctgt	ggaggatttt	aatgtctacac	tgccctaagag	cagactgcct	cagaacatca
3181	ccctgacaga	ggtgtaagag	ctcgaattcg	cccttagggc	tgcaggatca	taatcagcca
3241	taccacattt	gtagaggttt	tacttgcttt	aaaaaacctc	ccacacctcc	ccctgaacct
3301	gaaacataaa	atgaatgcaa	ttgttgttgt	taacttgttt	attgcagctt	ataatggtta
3361	caaataaagc	aatagcatca	caaatttcac	aaataaagca	tttttttcac	tgcattctag
3421	ttgtggtttg	tccaaactca	tcaatgtatc	ttaaactagg	gggatctg	tagcagataa
3481	ctgatcagct	tgaagtccct	atactttcta	gagaatagga	acttcggaat	aggaacttca
3541	agatccccct	ggcgaaaagg	ggatgtgtctg	caaggcgatt	aagttgggta	acgccagggt
3601	tttcgtcagg	tggcactttt	cggggaaatg	tgccgcggaac	ccctatttgt	ttatttttct
3661	aaatacattc	aaatatgtat	ccgctcatga	gacaataacc	ctgataaatg	cttcaataat
3721	attgaaaaag	gaagatccct	gaggcggaag	gaaccagctg	tggaatgtgtg	gtcagttagg
3781	gtgtggaag	tccccaggct	ccccagcagg	cagaagtatg	caaagcatgc	atctcaatta
3841	gtcagcaacc	aggtgtggaa	agtccccagg	ctccccagca	ggcagaagta	tgcaaagcat
3901	gcattctcaat	tagtcagtaa	ccatagtccg	caaagatcga	tcaagagaca	ggatgaggat
3961	cgtttcgcat	gattgaacaa	gatggattgc	acgcagggtc	tccggccgct	tgggtggaga
4021	ggctattcgg	ctatgactgg	gcacaacaga	caatcggtctg	ctctgatgcc	gccgtgttcc
4081	ggctgtcagc	gcagggcgcc	ccggttcttt	ttgtcaagac	cgacctgtcc	ggtgccccga
4141	atgaactgca	agacgaggca	gcgcggctat	cgtggctggc	cacgacgggc	gttctcttgc
4201	cagctgtgct	cgacgttgtc	actgaagcgg	gaagggactg	gctgtctattg	ggcgaagtgc

Supplementary Data 4

```

4261 cggggcagga tctcctgtca tctcaccttg ctcttgccga gaaagtatcc atcatggctg
4321 atgcaatgcg gcggctgcat acgcttgatc cggctacctg cccattcgac caccaagcga
4381 aacatcgcat cgagcgagca cgtactcgga tggaagccgg tcttgctgat caggatgatc
4441 tggacgaaga gcatcagggg ctgcgcgcag ccgaactgtt cgccaggctc aaggcgagca
4501 tgcccgacgg cgaggatctc gtcgtgaccc atggcgatgc ctgcttgccg aatatcatgg
4561 tggaaaatgg ccgcttttct ggattcatcg actgtggccg gctgggtgtg gcggaccgct
4621 atcaggacat agcgttggct acccggtgata ttgctgaaga gcttggcggc gaatgggctg
4681 accgcttcct cgtgctttac ggtatcgccg ctcccgattc gcagcgcata gccttctatc
4741 gccttcttga cgagttcttc tgaggggatc ggcaataaaa agacagaata aaacgcacgg
4801 gtgttgggtc gtttgttcgg atccgagctt caaaagcgct ctgaagtctc tatactttct
4861 agagaatagg aacttcggaa tagtaacttc tccatggtag cctccaaaaa agcctcctca
4921 ctacttctgg actagtgcgg ccgcgcgctt aagtggcctg tgactacgca gtgtcattat
4981 cttacagaat aggtttggac ccagatgttg tgggtgcctg aggttttaaa ttttgaaag
5041 cccatctcag gaaaaaaa aaccacaaa tttatgaatac agaggtgttg ggctgccctc
5101 gggacttgaa agggagcttg taatttgggg accagaggtt taaatcccta tagtttactt
5161 gtgaattatt caccttgctc aaactttcac tctgagaggc tgcctgatta ggtgcctagc
5221 gagaccagct ggatgtagct ttgtgctctt tcctctgttg attttctccg ctttaattaag
5281 aattcgtaat catgtcatag ctgtttcctg tgtgaaattg ttatccgctc acaattccac
5341 acaacatacg agccggaagc ataaagtgtg aagcctgggg tgcctaatag gtgagctaac
5401 tcacattaat tgcgttgccg tcactgcccc ctttccagtc gggaaacctg tcgtgccagc
5461 tgcattaatg aatcggccaa cgcgcgggga gaggcggttt gcgtattggg cgctcttccg
5521 cttcctcgct cactgactcg ctgcgctcgg tcgttcggct gcggcgagcg gtatcagctc
5581 actcaaaggc ggtaatacgg ttatccacag aatcagggga taacgcagga aagaacatgt
5641 gagcaaaagg ccagcaaaag gccaggaacc gtaaaaaggc cgcttgcctg gcgtttttcc
5701 ataggctccg cccccctgac gagcatcaca aaaaatcgac ctcaagtcag aggtggcgaa
5761 acccgacagg actataaaga taccaggcgt ttccccctgg aagctccctc gtgcgctctc
5821 ctgttccgac cctgccgctt accggatacc tgtccgcctt tctcccttcg ggaagcgtgg
5881 cgcttttctc aagctcacgc tgtaggtatc tcagttcggg gtaggtcgtt cgctccaagc
5941 tgggctgtgt gcacgaacct cccgttcagc ccgaccgctg cgccttatcc ggtaactatc
6001 gtcttgagtc caaccggta agacacgact tatcgccact ggcagcagcc actggttaaca
6061 ggattagcag agcgaggtat gtaggcggtg ctacagagtt cttgaagtgg tggcctaact
6121 acggctacac tagaagaaca gtatttggta tctgcgctct gctgaagcga gttaccttcg
6181 gaaaaagagt tggtagctct tgatccggca aacaaaccac cgctggtagc ggtggttttt
6241 ttgtttgcaa gcagcagatt acgcgagaa aaaaaggatc tcaagaagat cctttgatct
6301 tttctacggg gtctgacgct cagtggaaag aaaactcacg ttaagggatt ttggtcatga
6361 gattatcaaa aaggatcttc acctagatcc ttttaaatta aaaatgaagt tttaaatcaa
6421 tctaaagtat atatgagtaa acttggctctg acagttacca atgcttaatc agtgaaggac
6481 ctatctcagc gatctgtcta tttcgttcat ccatagttgc ctgactcccc gtcgtgtaga
6541 taactacgat acgggagggc ttaccatctg gccccagtcg tgcaatgata ccgcgagacc
6601 cacgctcacc ggctccagat ttatcagcaa taaaccagcc agccggaagg gccgagcgca
6661 gaagtggctc tgcaacttta tccgcctcca tccagtctat taattgttgc cgggaagcta
6721 gagtaagtag ttcgccagtt aatagtttgc gcaacgttgt tgccatttgt acaggcatcg
6781 tgggtgcacg ctgcctgctt ggtatggctt cattcagctc cggttcccaa cgatcaaggc
6841 gagttacatg atcccccatg ttgtgcaaaa aagcggttag ctccttcggg cctccgatcg
6901 ttgtcagaag taagttggcc gcagtgttat cactcatggt tatggcagca ctgcataatt
6961 ctcttactgt catgccatcc gtaagatgct tttctgtgac tgggtgagta tcaaccaagt
7021 cattctgaga atagtgtatg cggcgaccga gttgctcttg cccggcgctc atacgggata
7081 ataccgcgcc acatagcaga actttaaaag tgctcatcat tggaaaacgt tcttcggggc
7141 gaaaactctc aaggatctta ccgctgttga gatccagttc gatgtaacc actcgtgcac
7201 ccaactgatc ttcagcatct tttactttca ccagcgtttc tgggtgagca aaaacaggaa
7261 ggcaaaatgc cgcaaaaaag ggaataaggc cgacacggaa atgttgaata ctcatactct
7321 tcctttttca atattattga agcatttatc agggttattg tctcatgagc ggatacatat
7381 ttgaatgtat ttagaaaaat aaacaaatag gggttccgcg cacatttccc cgaaaagtgc
7441 cacctgacgt ctaagaaacc attattatca tgacattaac ctataaaaaat aggcgtatca
7501 cgaggccctt tcgtc

```

//