

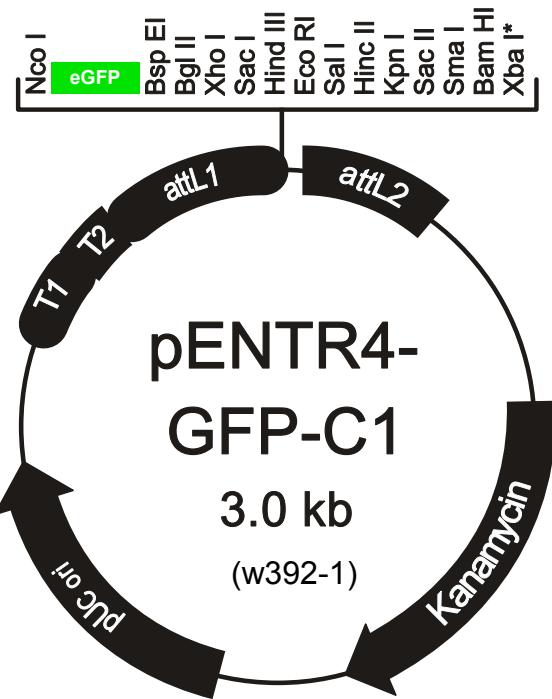
Comments for pENTR1A-GFP-N2
3067 nucleotides

rrnB T1 transcription termination sequence: bases 106-149
rrnB T2 transcription termination sequence: bases 281-308
attL1: bases 358-457 (complementary strand)
enhanced green fluorescent protein (eGFP): bases 552-1271
attL2: bases 1296-1396
Kanamycin resistance gene: bases 1518-2327
pUC origin: bases 2392-3064

Dra I	Xmn I	Sal I*	Xho I*	Sac I	Hind III	Eco RI
AAA GGA ACC	AAT TCA GTC GAC TGG ATC	TCG AGC TCA AGC TTC GAA TTC TGC	Tyr Lys Ser Gly Leu Arg Ser Arg Ala Gln Ala Ser			
Pst I* Sal I*	Kpn I	Sac II	Apa I	Sma I		Bam HI
AGT CGA CGG TAC CGC GGG CCC GGG ATC CAC CGG CCG GTC GCC ACC					ATG GTG	
Asn Ser Ala Val Asp Gly Thr Ala Gly Pro Gly Ser Thr Gly Ser					Met	
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Not I	Xho I*	Eco RV	Xba I	attL2		
...eGFP	Term	AGCGGCCGCACTCGAGATATCTAGACCAGCTTCTGTACAAA				

Recommended *E.coli* strain for propagation: TOP10F'

The position of the genetic elements is approximative.



Comments for pENTR4-GFP-C1
3028 nucleotides

rrnB T1 transcription termination sequence: bases 106-149

rrnB T2 transcription termination sequence: bases 281-308

attL1:bases 358-457 (complementary strand)

enhanced green fluorescent protein (eGFP): bases 463-1179

multiple cloning site (MCS): bases 1180-1256

attL2:bases

Kanamycin resistance gene: bases

pUC origin: bases

Recommended *E.coli* strain for propagation: TOP10F'

*Xba I site is methylated. Use methylation deficient strain in order to clone into this site.

pENTR4 -eGFP C1 MCS

atL1

GGGCCCAAA TAATGATTTC ATTTGACTG ATAGTGACCT GTTCGTTGCA ACAAAATTGAT
CCCGGGGTTT ATTACTAAAA TAAAAGTGAC TATCACTGGA CAAGCAACGT TGTTAACTA

AAG CAA TGC TTT TTT ATA ATG CCA ACT TTG TAC AAA AAA GCA GGC TCC
TTC GTT ACG AAA AAA TAT TAC GGT TGA AAC ATG TTT TTT CGT CCG AGG

Nco I

Bsp E I

Bgl II Xho I

Sac I Hind III

ACC ATG G ... eGFP ... TAC AAG TCC GGA CTC AGA TCT CGA GCT CAA GCT TCG
Met Tyr Lys Ser Gly Leu Arg Ser Arg Ala Gln Ala Ser

Eco RI

Sal I

Kpn I Sac II Apa I, Sma I Bam HI

Xba I

AAT TCT GCA GTC GAC GGT ACC GCG GGC CCG GGA TCC ACC GGA **TCT AGA**
Asn Ser Ala Val Asp Gly Thr Ala Gly Pro Gly Ser Thr Gly Ser Arg

A CCA GCT TTC TTG TAC AAA

atL2

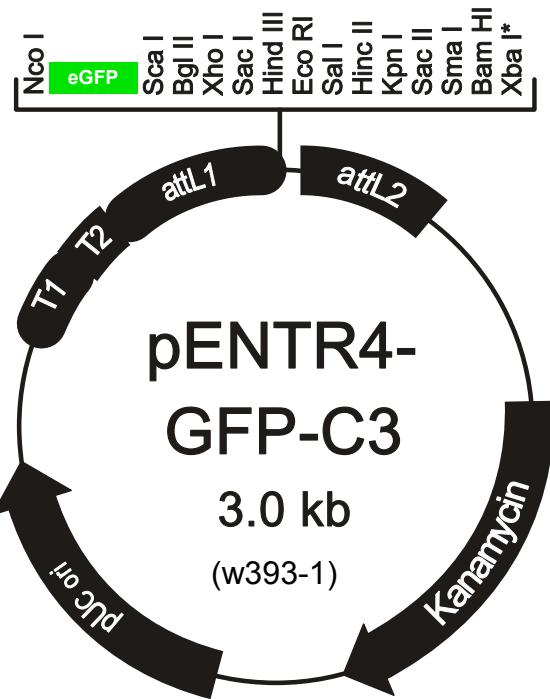
GTTGGCATT TAAGAAAGCA TTGCTTATCA ATTTGTTGCA ACGAACAGGT CACTATCAGT
CAACCGTAAT ATTCTTTCGT AACGAATAGT TAAACAAACGT TGCTTGTCCA GTGATAGTCA

reverse primer binding site

CAAAATAAAA TCATTATTTG CCATCCAGCT GCAGCTCTGG CCCGTGTCTC AAAATCTCTG
GTTTATTTT AGTAATAAAC GGTAGGTCGA CGTCGAGACC GGGCACAGAG TTTTAGAGAC

AT GTTACATT
TACAATGTAA

** Please note that there are no stop codons after the Xba I site.



Comments for pENTR4-GFP-C3
3024 nucleotides

rrnB T1 transcription termination sequence: bases 106-149

rrnB T2 transcription termination sequence: bases 281-308

attL1: bases 358-457 (complementary strand)

enhanced green fluorescent protein (eGFP): bases 463-1179

multiple cloning site (MCS): bases 1180-1256

attL2: bases

Kanamycin resistance gene: bases

pUC origin: bases

Recommended *E.coli* strain for propagation: TOP10F'

*Xba I site is methylated. Use methylation deficient strain in order to clone into this site.

pENTR4-eGFP-C3 MCS

atl1

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GGGCCCCAAA TAATGATTT ATTTGACTG ATAGTGACCT GTTCGTTGCA ACAAATTGAT
CCCGGGGTAA ATTACTAAAA TAAAAGTGCAT TATCACTGGA CAAGAACGT TGTTTAACTA

AAG CAA TGC TTT TTT ATA ATG CCA ACT TTG TAC AAA AAA GCA GGC TCC
TTC GTT ACG AAA AAA TAT TAC GGT TGA AAC ATG TTT TTT CGT CCG AGG

Nco I                           Sca I   Bgl II   Xho I   Sac I   Hind III   Eco RI
ACC ATG G ...eGFP... TAC AAG TAC TCA GAT CTC GAG CTC AAG CTT CGA
Met                                Tyr Lys Tyr Ser Asp Leu Glu Leu Lys Leu Arg

Sal I                           Kpn I   Sac II   Apa I, Sma I   Bam HI                           Xba I
ATT CTG CAG TCG ACG GTA CCG CGG GCC CGG GAT CCA CCG GAT CTA GA
Ile Leu Gln Ser Thr Val Pro Arg Ala Arg Asp Pro Pro Asp Leu

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A CCA GCT TTC TTG TAC AAA

attL2

GTTGGCATT	TAAGAAAGCA	TTGCTTATCA	ATTTGTTGCA	ACGAACAGGT	CACTATCAGT	
CAACCGTAAT	ATTCTTCGT	AACGAATAGT	TAAACAACGT	TGCTTGTCCA	GTGATAGTCA	reverse primer binding site
CAAAATAAAA	TCATTATTTG	CCATCCAGCT	GCAGCTCTGG	CCCGTGTC	AAAATCTCTG	
GTTTTATTTT	AGTAATAAAC	GGTAGGTCGA	CGTCGAGACC	GGGCACAGAG	TTTAGAGAC	

ATGTTACATT
TACAATGTAA

*** Please note that there are no stop codons after the Xba I site.