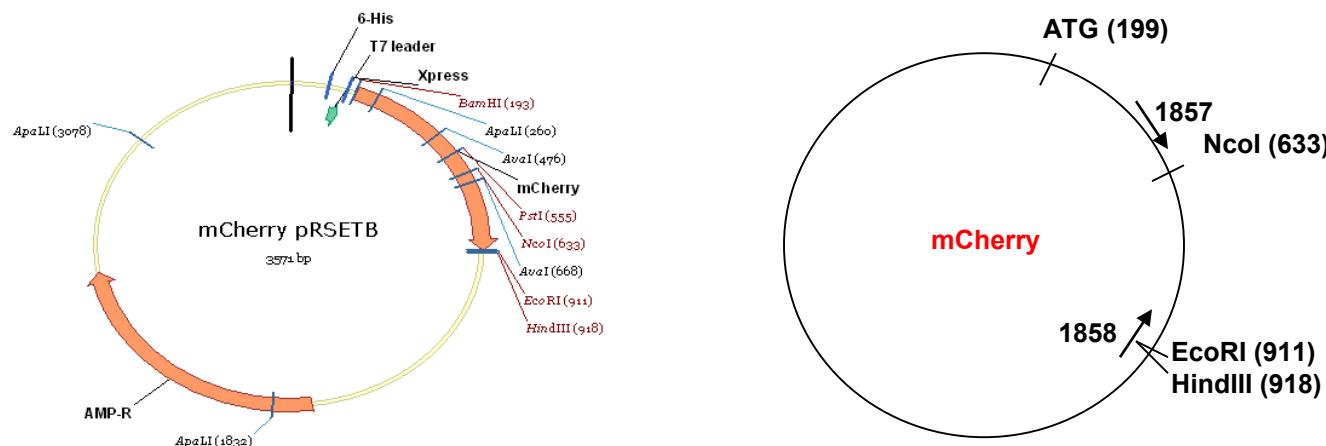


Supplementary Figure 2.

1) Remove stop codon at C-terminus of mCherry sequence

Supplementary Fig. 2. Removal of C-terminal stop codon in mCherry sequence in mCherry-pRSETB vector. See Materials and Methods for explanation.



Forward primer #1857 (bp 610-632)

Reverse primer #1858 (bp 924-891) – removes stop codon (TAA → TAC) and inserts extra bp's to separate EcoRI and HindIII restriction sites

	EcoRI	HindIII	
Original mCherry sequence:	891	5' -GGACGAGCTGTACAAG TAA <u>GAATT</u> CGAAGCTTG-3'	924
	891	3' -CCTGCTCGACATGTTCATGCTTAAGCTTCGAAC-5'	924
Stop codon removed and bp's inserted:		EcoRI	HindIII
		5' -GGACGAGCTGTACAAG TAC <u>GAATT</u> CTCCCTGGAAAGCTTG-3'	
		3' -CCTGCTCGACATGTTCATGCTTAAGAGGGACCTTCGAAC-5'	#1858

Instructions:

- PCR out the mCherry fragment using primers #1857 and #1858
- Gel purify the PCR fragment
- Digest both the PCR fragment and the mCherry-pRSETB with NcoI and HindIII
- Ligate the PCR fragment into the digested mCherry-pRSETB
- Sequence to determine that the stop codon has been removed