

SUPPORTING INFORMATION

Identification of sites within a monomeric red fluorescent protein that tolerate peptide insertion and testing of corresponding circular permutations

Yankun Li, Aillette M. Sierra, Hui-wang Ai, and Robert E. Campbell

Table S1. Sequences of all primers used for molecular biology procedures.

Name	Sequence	Description
RECA1	5'-ATGCCATAGCATTTTTATCC-3'	pBAD forward sequencing primer
RECB1	5'-GATTTAATCTGTATCAGG-3'	pBAD reverse sequencing primer
RECC1	5'-TGTA AACGACGGCCAGT-3'	pUC18 forward sequencing primer
RECD1	5'-AACAGCTATGACCATG-3'	pUC18 reverse sequencing primer
YLA1	5'-GGTCTAGAGGTACCGGCGGCTCCATGGTGAGCAAGGGCGAG-3'	Forward and reverse primers for amplifying mCherry. Digested PCR product with Xba1/EcoR1 ^a and insert into pUC18 to make pUC-YL-mCherry (pUC18-Xba1-Kpn1-GGS-mCherry-G-Kpn1-EcoR1-pUC18).
YLB1	5'-GGAATTCGGTACCGCCCTTGTACAGCTCGTCCATGCC-3'	
YLC1	5'-GGGGTACCGAATTCTAAGCTTGGCTGTTTTGGCGG-3'	Forward and reverse primers for making pBAD-YL (pBAD-xba1-kpn1-EcoR1-stop-pBAD) from pBAD/His B
YLD1	5'-GGGGTACCTCTAGAGCTCGGATCCTTATCGTCATCGTC-3'	
YL005	5'-CCGAGTCTAGATCCGTGAACGGCCACGAG-3'	Forward and reverse primers to make cp22-mCherry
YL006	5'-TTCGAATTCTTAGTTCACGGAGCCCTCCATGTG-3'	
YL007	5'-CCGAGTCTAGACACGAGTTCGAGATCGAGGGC-3'	Forward and reverse primers to make cp26-mCherry
YL008	5'-TTCGAATTCTTAGAACTCGTGGCCGTTACGG-3'	
YL001	5'-CCGAGTCTAGAATGCAGAAGAAGACCATGGGC-3'	Forward and reverse primers to make cp137-mCherry
YL002	5'-TTCGAATTCTTACTTCTGCATTACGGGGCCGTC-3'	
YL009	5'-CCGAGTCTAGACAGAAGAAGACCATGGGCTGG-3'	Forward and reverse primers to make cp138-mCherry
YL010	5'-TTCGAATTCTTACTTCTTCTGCATTACGGGGCC-3'	
YL011	5'-CCGAGTCTAGAGCCAAGAAGCCCGTGCAG-3'	Forward and reverse primers to make cp184-mCherry
YL012	5'-TTCGAATTCTTACTTCTTGGCCCTGTAGGTGGT-3'	
YL003	5'-CCGAGTCTAGAGCCTACAACGTCAACATCAAG-3'	Forward and reverse primers to make cp193-mCherry
YL004	5'-TTCGAATTCTTAGTTGTAGGCGCCGGGCAG-3'	

^aSubstrate sequences for restriction endonucleases are: Xba1, TCTAGA; EcoR1, GAATTC; and Kpn1, GGTAC/C