

Electronic Supplementary Material

Assembly of long DNA sequences using a new synthetic *Escherichia coli*–yeast shuttle vector

Zheng Hou[#], Zheng Zhou[#], Zonglin Wang, Gengfu Xiao[✉]

State Key Laboratory of Virology, Wuhan Institute of Virology, Chinese Academy of Sciences, Wuhan 430071, China

Supporting information to DOI: 10.1007/s12250-016-3730-8

Table S1. Primers used for PCR amplification of *pGF* vectors and fragments

Primer name	Sequences	nt
<i>Primers used for amplification of pGF vectors</i>		
XAF-1	GCTCGTAGATCGTCATGGTTTGTTCACCTGGTAGTTCgcgcccgcatcctctagagtcgacctg	68
XAR-1	AAGCTTAGGTACTTCTGGTAACGGTTTACGAGTGACGACAgcgcccgccgggtaccgagctcgaattc	68
XBF-1	CCTCCTGGTCGTACAGCAACACCAACTAGACGACTACCGCgcgcccgcatcctctagagtcgacctg	68
XBR-1	GTGACGGAGCGTCGTAGAGAACGGTAGCTCGTGACGGTTGcgcccgccgggtaccgagctcgaattc	68
XCF-1	AAAGCGAAGACTTGCCCGAACTCCCGTCACTTGAAGACACgcgcccgcatcctctagagtcgacctg	68
XCR-1	GCTGGCCGACCTGCTCGACGCTATCGAAGACGACGCACAGcgcccgccgggtaccgagctcgaattc	68
<i>Primers used for amplification of fragments A1-A4, B1-B4, C1-C2</i>		
AF1	GAACTACCAGGTGAGAAACAAACCATG	27
AR1	ACCATCGTTACAGGTTTTAACATCGG	26
AF2	TGACTTGGCACGGTGTACTAGGTCAC	26
AR2	GCTGCTACGTTTGTAGACCTAACCTATAAG	30
AF3	TCTGATAGCATCATCAAAGCCGTTAC	26
AR3	ACCTATGTTGTCTGGTCGGTCGTTT	25
AF4	CTTTGATGATGACAGCCGTAGGTTT	25
AR4	TGTCGTCACCTCGTAAACCGTTACCAG	26
BF1	GCGGTAGTCGTCTAGTTGGTGTTG	24
BR1	CACAGTGGAACCAACAACACTACTAGAAGC	28
BF2	GGTACGTAAGCTTGAGATCACCTCT	26
BR2	GTACTIONGACAACGAAGATGTGCTACC	27
BF3	CTACTAAGTCATCTACATCCTGACCAGAAGC	31
BR3	GAAAAGCAAGCACAACGAGCTAAGC	25
BF4	ACAGCTTGTGTCTTTTTCTTTCACGTATC	30
BR4	CAACCGTCACGAGCTACCGTTC	22
CF1	GTGTCTTCAAGTGACGGGAGTTTCG	24
CR1	ATGCTTGTCTAGACCCTGCTGTG	24
CF2	TCGTTGTCTGTAACCACCTACGGTC	24
CR2	CTGTGCGTCGTCTTCGATAGCGTCGAG	27

Table S2. Primers designed to amplify the sequences across the adjacent DNA fragments

Primer name	Sequences	nt
FV	CCCAGGCTTTACACTTTATGCTTC	24
RA1	GCAACCGACACACAGCCTCTT	21
FA1	TACACGGGTGGGGTGTAGTACC	23
RA2	CTTCTGCTTTTGAAAGACCTCCTCT	25
FA2	CTGGGTCGTACATGATAGCTGCTG	24
RA3	TGGTCACTTACAACGTATCATCCCT	25
FA3	CTTGTTACCTCGTCTACTAACCG	24
RA4	AGTGCTACTAACTGGGTTGTCGATG	25
FA4	GTTCTACAGAAGGACGTGGTTGTGT	25
RB1	GTAACAACAGCTACACTGTGGCTG	24
FB1	CTGTGCTCGTTGTCGTTCTACTG	23
RB2	AGAAGGGTGAGATAACAACGCTTTG	24
FB2	CACAGAGTTTCCACGAAGCCTC	22
RB3	CTTCAAGTAGTGCCTTACGACAACG	25
FB3	CCTTGTCGTTTACTGACGTTACCAC	25
RB4	GTTATCAAACGTGCGTCTTACCTCA	25
FB4	TTTTCCAGAGTTTACGCACCTC	23
RC1	TAGTTCCTATCGGAAGCGACCAT	23
FC1	GAAGTTGTACACTTTGGCGGGAG	23
RC2	CTATCACTACAACCCAGTAGCCAACA	26
FC2	GGGCAAGGCTCTTAGGGTCTTCATTC	26
RV	GTGAAATACCACACAGATGCGTAAG	25