S1 Table. Primers for plasmids construction

Primers	Sequence (5' to 3') (restriction sites in red)
For shuttle vector construction	
P311-F	CCAATGTTGCTAGCGATTATTAATTCAAACGGGTC
P311-R	CTCGCCCTTGCTCACCATGTCAAATCTCCGTTTTCAAC
GFP-F	GTTGAAAACGGAGATTTGACATGGTGAGCAAGGGCGAG
GFP-R	GAACCTGTTTGGATCCTTACTTGTACAGCTCGTCCATG
P1169-F	CTGTACAAGTAAGGATCCAAACAGGTTCTCTAATTAATC
P1169-R	CAATCATATGCGCTCTCCTTTCAG
Kan-F	TCTGAAAGGAGAGCGCATATGATTGAACAAGATGGAT
Kan-R	GACAGGGTACCTTATTAGAAGAACTCGTCAAGAAG
KAN-R	TTCCTACCTCGAGTTAGAAGAACTCGTCAAGAAG
Amp-F	ACGTCGCTCTCGAGTTATTACCAATGCTTAATCAGTG
Amp-R	CTAGTTAGTCGCTAGCTATTTTCTCCTTACGCATCTG
pUC-F	CTTCTAATAAGGTACCCTGTCAGACCAAGTTTACTCAT
pUC-R	CATACCTCAGCTCGAGGGGATAACGCAGGAAAGAAC
RSF1010-F	GACACGACGCACCTCGAGAGTTATTGTCTTCAAATTCCCGT
RSF1010-R	TATCTCCGCGTGCTAGCAGCTGTGCGGCAGCGCTCAGTAG
pQ-F	GCATTGCTGCTAGCCAACCTCCCTTCTTTCCCAATC
pQ-R	CTTCTACATCTCGAGATTCTTTGTAGAATCGCTGTC
For ORF deletion derivatives construction	
pQ36-NheIF	GCTTCATCAAGCTAGCAGAGGCGTTCGCTAATGACTTC
pQ36-NheIR	CCAATGTTGCTAGCGATTATTAATTCAAACGGGTC
pQ37-XbaIF	TTCTATGTGACCTCTAGATCTATGATGTATCAAAACCACGAG
pQ37-XbaIR	CTGGACTCGTCGTCTAGATTACCAGCTTGGTAGAATTTGTC
pQ38-XbaIF	AATCTATCGATCTCTAGATAAGACTAAAGATGGGAAAAAGC
pQ38-XbaIR	TAGCTCGATCGCTCTAGATTTATATTGCCAAGTTCCTCATC
pQ39-XbaIF	CTGAAGCTCTCTTCTAGACTAGTGATGGATTTTGAGGTTG
pQ39-XbaIR	TGTGCACATCTCTCTAGATTGTAGGGTAACTCTGGATAAG
pQ39a-XhoIF	CATACCTCAGCTCGAGGGGATAACGCAGGAAAGAAC
pQ39a-XhoIR	TACGAATATCTCGAGAAAGTCTCCAAAGAGAACATCCTG
For standard plasmid construction	
dotA-NheIF	CTGCTAATAGTGCTAGCATCCAGTGATCTTTGCCTCG
dotA-XhoIR	TCGTCTAGCAATCTCGAGTCACGCCAAAAGTGTAAAGCAT
cbua37-XhoIF	CAAGTGCTCGACTCGAGTGAAGAAAATGAGAACGGAAGG
cbua37-PciIR	TCGTCTCACGAAACATGTCATAGATCGTTCCTATTTCATTTG
For Q-PCR	
QdotA-F	GCGCAATACGCTCAATCACA
QdotA-R	CCATGGCCCCAATTCTCTT
Probe	CCGGAGATACCGGCGGTGGG
QCb37-F	TCCTGAGCTTATAAGGGTTGC
QCb37-R	GATTTAGGTAAAAAAATAGCCATTG
Probe	CTTGAGCATCAAAGTCGAGAAGGAGGGAAC

S2 Appendix. Complete sequence of the pMMGK plasmid

CTCGAGTTAGAAGAACTCGTCAAGAAGGCGATAGAAGGCGATGCGCTGCGAATC
GGGAGCGGCGATACCGTAAAGCACGAGGAAGCGGTCAGCCCATTCGCCGCCAAG
CTCTTCAGCAATATCACGGGTAGCCAACGCTATGTCCTGATAGCGGTCCGCCACA
CCCAGCCGGCCACAGTCGATGAATCCAGAAAAGCGGCCATTTTCCACCATGATAT
TCGGCAAGCAGGCATCGCCATGGGTCACGACGAGATCCTCGCCGTCGGGCATGC
GCGCCTTGAGCCTGGCGAACAGTTCGGCTGGCGCGAGCCCCTGATGCTCTTCGTC
CAGATCATCCTGATCGACAAGACCGGCTTCCATCCGAGTACGTGCTCGCTCGATG
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CT

S3 Appendix. Complete sequence of the pQGK plasmid

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TGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTTATCCGGTAA
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CCCATTTTTAGCGATTCTCAAAGAGATTCCTAATGTTCAAGATGCAATCGCTTTTC
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TATACAAACGTTTGATAGAAGAAGGGGTTTTCAAAAAGGAAAAAGACCTCGCCG
AGAAATTGCGATTATCGCCTTCTACCTTGAATGATTTGATGGCGTATACAAAGAT
ACCAAGTGCTATTGTCAAAAAAATTCCAAACATCCATGCGTTGTCCAAAAGCATT
GTGCTTAAAATAGTTCAATTACTCAATAAATCTTCAAAAAATCACGCAAAACTTA
TTGCTATTGCACCAGATATTGGTAAGTCCATTACTTCACCGGCTAAACTTGAAAG
TGCTGTCGAAAAACCAGTAGGCAGCAAAACAAAACAGCGGTTGCAGGCAACTAA
ACAATATAAGACTAAAGATGGGAAAAAGCTTTTTACGTTTAAAATTGATCATCGA
GGCGCGCCTTGCATTGTTTTGAATAAAGAAATCCTCAACAGGGTAGATATGGATA
CCATGTGTGAGAAAATTAAAAGCCAACTAGAAATTGAATTAAGTCAATCCGGAG
CTCCGGATTGACGCCCAATCCGGAGCTCCCGGATTGGAGCTTGAGCCAAATATTG
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AAGCATGTCAATGCTATTCATTGTTCAAATAACCTTACTTTGGTGCAAAGAAAGT
TATTCAATGCACTTTTATTTAATGCTTATCCAGAGTTACCCTACAAGCTCAAATTT
CAAATTTCAGCAAAAGATTTATGCAAATTAATAGGATATAACAGCAATGACTATG
GAAAGCTTAAAAGGGCGCTACTTGGGTTAATCACAACCGCAATTGAATGGAATG
TAATCGATTGTGACACAGGGAAGGAAAAAAATTGGAAAGCAAGTTCAATCCTAT
CAGCGGCTCAGCTGGCGGAAGGCGTTTGTACTTATGAGTACAGTCATATTATGAA
AGAATTGCTTTTCCAGCCGGAAATTTATGGAAGAATAGATGTAAAAACCATGTCA
AAATTTAAATCAAGCTATGGTTTAGCATTATATGAAAACTGTATTCGCTACCAGA
GACTGTCACAGACACCTTGGTTTCCTTTAGATGTTTTTAGAAAACTCATGGGAGTT
TTAGGCGGTAAATACACTTCATTTAAAGATTTTAAAAAAAGAGTACTCAATATTG
CAGTGAATGAGGTAAATAACCTATCACAAATTCAGGTCTTACCAGAAATCGAGA
GACAAAACCAAAAAGTCACAAAGATTAGATTTAAACTGAATAAAAAACACCTTG
CGTCATCCGAAAAAATCTCAAACCTAATTAATGCAGAGTTAGAAGAAACCTTAAC
AAATACATTTAGTCTATCTCCGCTTCTTATTCGAGATTTGCTTACAGAGTATGATA
TAGCGTTCATTCGTGAAAAAGTGAACATCATTATAAATTCCAGTAGTTTTCAAGA
AGGGAAGATACGCGGCCTTAGTGGGTATTTAATAGACTCATTACGAAAAGATTAT
AAAGCCAGCAAGTCGAGCCAGATGCTTATTAGTGAAGCACGAATGAAGAGGAAA
TTAGAAGAAGAAGCTGAGAAAGAAAGGGAAGAAAGACGAAGAAATAGATATGA
AAAATACGTTAAGGATAAAATAAACAAATATCTTACATTACTAACGGATGCTGA
GAAGGATGCTCTAGTGATGGATTTTGAGGTTGAATTGAAGTCAAATAAAAGTAAT
AAAGTCTTTTACTCTTGGTATAAGAAAAATGGTTTTGAGCATGTTGGGGTTAAAG
CTTGCTTTCACAATTTTGTGAAAGAGCATAAAAAACAGCATATGGGAGGAATTCT
GTCATTTGAAGAGTTTATAAGCTTGGTGGATGAATACACTTAATAGACAGGCGCG
ACGTTTGCGGGACGGGAAATTCAGATTCGCGAGGGGGGACGTTTGCAGGATGTT
CTCTTTGGAGACTTTATCGAAATATTAATCCTCAAAAGTTACATCTTGTTCTTTCT
TCAAACGACTTTTAAGTTCTTCATTAGAATTACTAGCGGCTTCATAAAGCTTGAG
GTATTGTTCCGCGCGTCGTTTATATTCTTTAACCGCGAGCTGAGCTTGCAAACCGG
TCTGGTAAATTTTAGCCAGTATCGCTTTCAATTGCTGTGGATTATCAGGCAGCGA
ACGAATCGCCTCGGGAAGGGGTGTTGGTGCGATATTTTCGGATTGAAAAAACTGA
GGGGAAAGCGTTTTAACTTCCTCTTTGAGCCGTTCAATTTCCTCTTTGAGAGTAAA
AAATTCGTGCAAAGTACCTTGGGTGATTTCCTCAAAGATTCGTGCACGCGCTTTG
GCCATGCGTTGACGCTCATTCCAGGGCTCTGGGTATTCTTCAGCCGCGGCTTGAA
CCATCGCTTCAAATCGTTTTTTGGCGTCCGCGCGCACTTGGAGCTCGAAACGAAC
CAATCCTTTGTTGGCTTGCGAACGCCGGTATTTTTTTTGGGCATTGGGTTTGTGGC

GCGTCGGAATTGATTTGATTTTATCCATACCATTTTTATCCTTTTTCACCGGAGAT
AATATAGCAGTTTTTAGATCGGTTGAGGAGGACAGCGATTCTACAAAGAAT

S4 Table. Primers for PCR Identification

Primers	Sequences（5’-3’）	Target genes
cbua-01F cbua-01R	TGAAAGACAGTCTCATTACCT GAAATGTTTCCAGGACTTGC	CBUA0001
cbua-03F cbua-03R	TTGGTGAGTCGTCAGTATTTTG TTACACATTTTTAATACAAGC	CBUA0003
cbua-05F cbua-05R	TAAGAACACGTTAGTAGAAGAG GTTTTAGAACGTGGCAAGGT	CBUA0005
cbua-06F cbua-06R	TGTTTGCAACTGTTCCATCCT TGATGTTGATGGCGCAGACTC	CBUA0006
cbua-07F cbua-07R	TTGCAGGGACTGTGTGTAACG CTAACTTCTATTGGCTCTCTTC	CBUA0007
cbua-08F cbua-08R	ATGAATAATAACTTGGAAAATG TTCGCCACTTTTCCCTGTAAT	CBUA0008
cbua-08aF cbua-08aR	AATCAAGTTGCTATTAGGGTGT CATCTTCATTCCACGCCTTAC	CBUA0008a
cbua-08bF cbua-08bR	TCAATAAGTCGTGAGCAATCC ATCGTAGCGTTGCGTCACAC	CBUA0008b
cbua-08cF cbua-08cR	GGAATTAACCCTTATGCGTAT CGTTAGCGCCTCGTCATTAC	CBUA0008c
cbua-10F cbua-10R	TTGATGCCGTTCTCTTAGTTC CTATTGAAAATATCACTGCTGG	CBUA00010
cbua-11F cbua-12R	AGTGATATTGGCACAACGATG AACGTTCCTCGGCAAGACT	CBUA0011～ CBUA0012
cbua-13F cbua-13R	ATGCCATATTTTTTTACACTAC GAAAACAGTTGTTATTAGTG	CBUA0013
cbua-13aF cbua-14R	TAATTTATTAGGGTGCTTGC GCTCAAATTCCGCACCTACT	CBUA0013a～ CBUA0014
cbua-15F cbua-15R	TTTGAGCGATGTAAATGACTAT ATTCCTCTTCAGTTTCCGTTTC	CBUA0015
cbua-16F cbua-16R	ATGAGATTAGAACAACCAAG TGTTCATTTTCTGAGTCCGAG	CBUA0016
cbua-17F cbua-17R	GAGAAAAAATGTCACGAGAG CCCTTTCCTCTATGCGTTCT	CBUA0017
cbua-18F cbua-18R	AGGATACGATGGTTCTTGTG GAAGCATGAAAGCAAAGTATC	CBUA0018
cbua-20F cbua-20R	ATCGATTTTTCGTGGTTCTC TCTTGAAGCTTACCAAAATGC	CBUA0020
cbua-21F cbua-21R	GTTTCTTTGCATTGCTGTTG GAAGTATATGGGTATCAAAGTG	CBUA0021

cbua-22F cbua-22R	CTACAATGCGCCTATGGAC CTATGCGTTATCCACTGTTTC	CBUA0022
cbua-23F cbua-23R	CCCTCATTTTGGTATTTCG CAATTGTGCTATTGAGGAAAC	CBUA0023
cbua-24F cbua-24R	AGCAGCGCATTTAATCTTCT GTGGGGCACATCTACTTTC	CBUA0024
cbua-25F cbua-25R	GAAATTCTTTCCTCTTTGTAGC TTGAATAAGCCAAATGATG	CBUA0025
cbua-26F cbua-26R	TGATTGTCTATCGAAGCCTAG GCATGGGAGAATGAGCAGTC	CBUA0026
cbua-27F cbua-27R	GAAGGCCTTTTCTATCAACG TTAAACCTTTATCGCCCATTG	CBUA0027
cbua-28F cbua-28R	CACCTCTATCAGTTCGCCTAT TGACTGATGGAAATCTGCTC	CBUA0028
cbua-29F cbua-29R	CACCCAAACAGCTCACGATC CGTGGGAAATCGGTGAGGT	CBUA0029
cbua-29aF cbua-29aR	CAGCAAAATTAAGATGGACT GGAATATCCGTGATTGCCTC	CBUA0029a
cbua-31F cbua-31R	GTCAATTTTTGGATTTCACATAG TTATCTTCCATACAAATTCATC	CBUA0031
cbua-32F cbua-32R	ATGGAAGATAACTGCATTAAAAT TTATTTTATCCAAATACAGTTAG	CBUA0032
cbua-33F cbua-33R	ATGAATCCTAAAGATTTACTCTAT AATTATCTTTCCCCCCTTCTAC	CBUA0033
cbua-34F cbua-34R	TCAACATTTTATCATCAGAGG TTGGGCGCTTACTTTAGGC	CBUA0034
cbua-34aF cbua-34aR	TTCACTCGCTGAAAAACCTTC AAAGTGGGCAAATTGGTTCG	CBUA0034a
cbua-36F cbua-36R	TGTTACTCCTCAGCCTTGTCG GTACGCGATAACGTAAATGT	CBUA0036
cbua-37F cbua-37R	AAACACAAATTACCCCCTACG GTTATCCATTGACGGTTTCTCC	CBUA0037
cbua-38F cbua-38R	AGCGAAACATTCATAACTCTG TGACTTAATTCAATTTCTAGTTG	CBUA0038
cbua-39F cbua-39R	CCAAATATTGATGGAGAAACG AGTGTATTCATCCACCAAGC	CBUA0039
cbua-39aF cbua-39aR	TTAATCCTCAAAAGTTACATCT TAAAATCAAATCAATTCCGAC	CBUA0039a