

Supplemental Materials

Table S1. Oligonucleotides used to introduce nucleotide substitutions in each *regA* mutant. Lower case letters denote nucleotide substitution(s) producing an amino acid change.

<u>mutation</u>	<u>oligonucleotide</u>
D20A/D21A	5'-CTTCTCGTGGACGcTGcCGAGCCCTTCCT-3'
R27L	5'-GCCCTTCCTGAAGCtGCTTGCCAAGGCG-3'
M32K	5'-CTTGCCAAGGCGAaGGAGAAGCGGGGT-3'
R35L	5'-GCGATGGAGAAGCtGGGTTTCGTTCTC-3'
K49E	5'-GTCGCGGAAGGCGAgGCGATCGCCCAG-3'
P57A	5'-CAGGCGCGCCCGgCGGCCTATGCAGTG-3'
D63A(-P)	see reference 37
E67K	5'-GACCTGCGGCTCaAGGACGGCAACGGG-3'
R79G	5'-GTCGAGGTGCTGgGCGAGCGCCGGCCC-3'
D84A	5'-GAGCGCCGGCCCGcTTGCCGCATCGTG-3'
T91A	5'-ATCGTGGTGCTGgCGGGCTACGGCGCCA-3'
A97S	5'-TACGGCGCCATTtCGACGGCGGTCGCC-3'
D109A	5'-ATCGGCGCCACGGcCTACCTGTCCAAG-3'
K113M	5'-GACTACCTGTCCA tGCCCCCGACGCCA-3'
P134A	5'-AGCCTGCCCCCGgCGCCGAAAATCCG-3'
W146G	5'-GACCGCGTGCGGgGGGAGCACATCCAG-3'
C156G	5'-GAATCTACGAAATGgGCGACCGCAATGTC-3'
N159S	5'-TGTGCGACCGCAgTGTCTCGGAGAC-3'
S161A	5'-GACCGCAATGTCgCGGAGACCGCCCGG-3'
S161P	5'-GACCGCAATGTCcCGGAGACCGCCCGG-3'

E162G 5'-GCAATGTCTCGGgGACCGCCCCGGAGGCT-3'
E162K 5'-GCAATGTCTCGaAGACCGCCCCGGAGGCT-3'
T163A 5'-CAATGTCTCGGAGgCCGCCCCGGAGGCTC-3'
T163P 5'-CAATGTCTCGGAGcCCGCCCCGGAGGCTC-3'
A164D 5'-GTCTCGGAGACCGaCCGGAGGCTCAAC-3'
A164V 5'-GTCTCGGAGACCGtCCGGAGGCTCAAC-3'
A164G 5'-GTCTCGGAGACCGgCCGGAGGCTCAAC-3'
A164S 5'-GTCTCGGAGACctCCCGGAGGCTCAAC-3'
R165G 5'-CTCGGAGACCGCCgGGAGGCTCAACATG-3'
R165H 5'-TGTCTCGGAGACCGCCcAcAGGCTCAACATGCAC-3'
R166G 5'-AGACCGCCCCGGgGGCTCAACATGCA-3'
L167H 5'-ACCGCCCCGGAGGCaCAACATGCACCGG-3'
L167P 5'-ACCGCCCCGGAGGCcCAACATGCACCGG-3'
N168Y 5'-GCCCCGAGGCTctACATGCACCGGCGGA-3'
M169T 5'-CGGAGGCTCAACAcGCACCGGCGGACG-3'
H170D 5'-AGGCTCAACATGgACCGGCGGACGCTG-3'
R171G 5'-CTCAACATGCACgGGCGGACGCTGCAG-3'
R172A 5'-TCAACATGCACCGGgcGACGCTGCAGCGCAT-3'
T173P 5'-CATGCACCGGCGGcCGCTGCAGCGCATC-3'
L174A 5'-ATGCACCGGCGGACGgcGCAGCGCATCCTGGCG-3'
L174W 5'-ATGCACCGGCGGACGtgGCAGCGCATCCTGGCG-3'
Q175A 5'-CACCGGCGGACGCTGgcGCGCATCCTGGCGAAG-3'
I177N 5'-ACGCTGCAGCGCAaCCTGGCGAAGCGC-3'
L178A 5'-ACGCTGCAGCGCATCgcGGCGAAGCGCAGCCCCG-3'
L178W 5'-ACGCTGCAGCGCATctgGGCGAAGCGCAGCCCCG-3'

Table S2. Oligonucleotides used for the construction of pETCbbR/201, pETCbbR/204, and pVK442.

Underlined sequences denote restriction enzyme sites.

pETCbbR/201:

for amplification { 5'-GCATTTCATATGGTGCGGCTCGATGCGATCA-3'
5'-GCATTTGGATCCTCATCAGCCCTCGCTCACCGCCATCACTTG-3'

pETCbbR/204:

for amplification { 5'-GCATTTCATATGACGCTCGCCGGAATCGCCGTTCTC-3'
5'-GCATTTGGATCCTCATCAGGCGGGGGCGCCGGGCAGATA-3'

pVK442:

5'-GAGGGCCGGGCCGGGTAGGGTACCCTGGGTGTGGTCTCG-3' (create 1st KpnI site)

5'-CTATCTGCCCCGGCGCCGGTACCTGAGCCGTCAGACG-3' (create 2nd KpnI site)

Table S3. Oligonucleotides used for the RT-PCR analysis of *cbbR* transcripts from 87/CbbR(wt), 87/CbbR(trunc), and HR.

forward: 5'-CTCGATGCCATCACCTGAAGCAGCTG-3'

reverse and RT: 5'-CTGCGACAGAATGACCTCGATCCGCTG-3'