Supplementary Table S1. Fragments sequences cloned in pDProm

Name	Origin species	Sequence (5' → 3')
mCherry	-	GCAGTGAGCGCAACGCAATTTTACTTGTACAGCTCGTCCATGCCGCCGGTGGAGTGGCGGCCCTCGGCGC GTTCGTACTGTTCCACGATGGTGTAGTCCTCGTTGTGGGAGGTGATGTCCAACTTGATGTTGACGTTGTAG GCGCCGGGCAGCTGCACGGGCTTCTTGGCCTTGTAGGTGGTCTTGACCTCAGCGTCGTAGTGGCCGCCGT CCTTCAGCTTCAGCCTCTGCTTGATCTCGCCCTTCAGGGCGCCGTCCTCGGGGTACATCCGCTCGGAGGAG GCCTCCCAGCCCATGGTCTTCTTCTGCATTACGGGGCCGTCGGAGGGGAAGTTGGTGCCGCGCAGCTTCA CCTTGTAGATGAACTCGCCGTCTTGCAGGGAGGAGTCCTGGGTCACGGTCACCACGCCGCCGTCCTCGAA GTTCATCACGCGCTCCCACTTGAAGCCCTCGGGGAAGGACAGCTTCAAGTAGTCGGGGATGTCGGCGGG GTGCTTCACGTAGGCCTTGGAGCCGTACATGAACTGAGGGGACAGGATGTCCCAGGCGAAGGGCAGGGG GCCACCCTTGGTCACCTTCAGCTTGGCGGTCTGGGTGCCCTCGTAGGGGCGGCCCTCGCCCTCGCCCTCG ATCTCGAACTCGTGGCCGTTCACGGAGCCCTCCATGTGCACCTTGAAGCGCATGAACTCCTTGATGATGG CCATGTTATCCTCCTCGCCCTTGCTCACCATGGCTTGCTCCTTAGGAGCAAGCCATGAGTAAAGG
P_{lac} *attC gfp*	-	CTCACCATGGCTTGCTCCTTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTT CCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTCACACAGGAAACAGCTATGAGTTAACAA ACGCCTCAAGAGGGACTGTCAACGCGTGGCGTTTCCAGTCCCATTGAGCCGCGGTGGTTACGGTTGGTGT GTTTGAGTTTTGTGTTATGCGTTGTCAGCCCCTTAGGCGGGCGTTAGCCAGGAGCAAGCCATGAGTAAAG G
P_{lac} *attC mCherry*	-	CTCACCATGGCTTGCTCCTTGGCTAACGCCCGCCTAAGGGGCTGACAACGCATAACACAAAACTCAAACA CACCAACCGTAACCACCGCGGCTCAATGGGACTGGAAACGCCACGCGTTGACAGTCCCTCTTGAGGCGTT TGTTAACTCATAGCTGTTTCCTGTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAA GCATAAAGTGTAAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAGGAGCAAGCCATGAGTAAA GG
C1	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTAGTTGCCAACGAGAAAAAAGTACCTAAAGCAGAATACTTAGGGCTAAT GTCCGTGTGTTTTTGGCTAGGTTTTCGTATTTCAATTTCTAGTTATTAGGTGTTGTGAAAATTGTTCTTTGG TTCCTTGCGCGATTTGGGCTTTCTGTTTCAGAGGCTGTTAGCTTGTTGAAAGCCTGCTCTGCTGCATTGTC GTTCCAAAAGGTTTGTTTGGTGTTCAAAGTCCGTTTTCTACGGCGTTGTAAATTCCAAGTGGTTTCAGTGA CAGGCGCTTTGAAACTGCGCCTGATTTGAGTTTCTTAATACACGTAAAGCTCGTGTTGGCAAAGCGGCAA TCCACTTCAAATGAAAGTGTTAGGTCTGGCAACTAACAAAGCATTCAAGAGGGATTCACAACGCTTGGCA GTTTTGGTTTGAATCAGCTTTAGTGTTTACTGCACAATAGCTTAGGTTGGGTGGTGGCGTTGTTCACCCCT TAATGCGGCGTTATGTAGGAGCAAGCCATGAGTAAAGG

C2	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTATGCTTAATCCATAAAAATCAGCAGGTTGTAATTGTCGATTTCTTTGGC ATTTCATTCAGGTTTTGTCGGCAATTCAATATTGTTTTTCGCTGCCTAATGAAGCGGCAATGTATCTGGTG CTGAAAATTCAGTGTTATTGCCTCATTGAGTTGTCGCGCCCATGCGTGGTGAGTGAGTTTGTCGGAGAGG TTTTCACATTGGCCTAGTTGCTAAATGAAAGCCTGCATTGGTCAGTTCATAAGTAAAAGTTGAGCCAGTT CTAATTCAAGGAAATTCGATGTTTGGTCAATAATTTCAGTGAGTTACTCTTGAGTTGGCTCAAATGTAAA GTGTTGAAGCTTAAGCATAACAAACGCCTCAAGAGGGACTGTCAACGCGTGGCGTTTCCAGTCCCATTGA GCCGCGGTGGTTGCAGTTGTTGTGTTTGAGTTTAGTGTTATGCGTTGTCAGCCCCTTAGGCGGGCGTTATG TAGGAGCAAGCCATGAGTAAAGG
C3	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTAGTTTCTCTCAGGAAAATCATCAAAAATTCACGCACAAGGTTCTGAAAA TTCAGCCTTTATCGTTCAAGCTGCACAATTTGGTTTTGGGGTTTTTCCTGATGTTGATTTGGTAGAAAGCG TTGAAAGTTCAGCGGTTTCAAAACCGCGGATAACCAACAAGCTTTGATGCTTCAATGTTGTCGGACGTTC AACTTGATCAGTTTGGTTTCATAAAAGGTTGAATCATCGCTGTGATCTGGCTTTCTTTGTGCGGACTCTTA ACGTTTTGGCAGCCAACTTCACAGCTTTTGGCGTTGGACGTGTGTTTGCGTGATGCTTTTGCGTAAAATGA CTTTCAAGAAAATGAGTTTAAAAAGTCATTGTTAAACAATAGGCTACGAAACTAACAAACGCCTCAAAG GGACTGCCAACGCGTGGCGTTTCCAGTCCCATTGAGCCGCAGTGGTTTCGGTTGTTGTGTTTGAGTTTTGT GTAATGCGTTGTCAGCCCCTTAGGCGGGCGTTATGTAGGAGCAAGCCATGAGTAAAGG
C4	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTAGCTTCTTGAAGCAAAAATTATCAAAGTCTGGATTTAATTGTCCTGAAA ATTCAGCTTTTAGTGTTCAAGTTTCACAATTTGGCTTTCGAGTCTTTCTGATGCTTATTTGGTAGAAAGTGT GGAATCTTCAGCAGTTTCAAAGCCGCTAAAAATCATCAAACCTTGATGCTTCAATGTTGTTGGATGCTCC AAACGGAAAGCTTGGTTTCACAAAGGCTGCATCATCGCTGAAAGAGTGTTTTCTTTGTCACGGACTCTTA ACGTGGCCAACTTAACCTTGAATGCTTTGAGTTTTGGCTGTTTACTTCACAGCTTTTGGTGCTGGACGTGC GTTTGTTCGATGCTTTTGCGTAAAATTGCTTTCTCAAAATCATTGTTAAACAATGGGCTACGAAGCTAACA AACGCCTCAAGCGGGACTGTCAACGCGTGGCGTTTCCAGTCCCATTGAGCCGCGGTGGTTTCGATTGTTG AGGTTGAGTTTAGTGTTAATGCGTTGCCAGCCCCTTAGGCGGGCGTTATGTAGGAGCAAGCCATGAGTAA AGG
C5	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTAGCTTCTTAAAGCAAAAATCGGTTTAATTGTCCTAAAAATTCAGATTTT AGCGTTCAAATTGCACAATTTGGCTTTTGAGCTTTTCTTGATGCTGATTTGGTCGAACGTGTTGAAAGTTC AGTGGGTGCAAAGTCGCTGAAAACTAGTAAGCCTCGATGCTTCAACGTTGTTGGATGTTCCGCTCGGAAA GTTTGATTTCACAAAATGCTGCATCATCGCTGTGATCTTGCTTTCTTTGTCGCGGACTCTTAACCGTGGCC AACTTAACCTTGATCGTTTTAAGTTTTGGTAGCCAACGTCACAGCTTTTGGCGTTGGACGTGTGCTTGCTT GATTCTTTTGCGTAAAATGCCTTTCAAACAAATGTGTTAAAAGCCATTGTTAAACAATAGGCTACGAAGC TAACAAACGCCTCAAGAGGGACTGTCAACGCGTGGCGTTTCCAGTCCCAATGAGCCGCGGTGGTTACGGT

		TGTTGTGTTTGGGTTTAGTAGTAATGCGTTGCCAGCCCCTTAGGCGGGCGTTATGTAGGAGCAAGCCATG AGTAAAGG
C6	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTAGCTTCTTAAAGGCTAAGATCATCAAAATCCAAACTTCTTGTTCTGAAA GATCAGTTTTTAGTGTTCAAAGTGCACAATTTGGCATTTCAATTTTGCTAGATGCTGATTTGGTAGAAAGT GTTGGAAGTTCCGCAGTTTCAAAGCCGCTGAAAGCCAACAAGTCTCGATGCTTCAAAGTTGTTGAATGTT CAATTCGGTCAACTTGGTTTCACAAAAAGCAACATCGTCGCTGAAATCGTGCTTCTTTGTCGGAAATGCA GTAAGTGGCCAACTTAGCCTTGAACGCTGCAAGTTTTGGCAGCTCACTTCACAGCTTTTGGCGTTGGACG TGTGTTTGAGTGATGCTTTTGCGTAAAATGCATTTCAAGCAAATGTGTTTAAAAAGTCATTGGTAAACAA TGGGCTACGAAACTAACAAACGCCTCAAGAGGGACTGTCAACGCGTAGCGTTTCCAGTCCCAATGAGCC GTAGTGGTTACGGTTGTTGTGTTTGAGTTTGGTGGAAATGCGTTGCCAGCCCCTTAGGCGGGCGTTATGTA GGAGCAAGCCATGAGTAAAGG
C7	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTATGCTTAATCCATAAAAATCAGCAGGTTGTGAATGTCGATTCCTTTGGG ATTTCGTTCAGGTTTTGTCGGCAATTCAATATTGTTTGTCGCTGCCTAATGAAGCTGCAATGTGTCTGGCG CTGTAAATTCTGAGTTGTTGCTTCACTAGGTTTTTGAGTCTGCGCGAGGTTAGTCTTGTTGGCTCAAGTCG CTTTGAGCAGTCTGGTGCCTTTACTTACAGGCTTAAAGTCTGTCGGCAATTGAATATTGTTTTGCGCTGCC TAATGAAACAGCAATGTGTCTGTCGCTGTAAATTTCAGTGTTATTGCCTCATTGAGTTGTCGCGCCCATGC GTGGCGAGTGAGTTTGTCGGAGAGGGTTTCCACATTGGCCTAGTTGCTAAATGAAAGCCTGCATTGGTCA GTTCATAGGTGAAATTTTAGCCAGTTCTAATTCAAGGAAACTCGGAATTTGGCCAATGATTTCATTGGGTT ACTCTTGATTTGGTTCAAATGTAAAGTGTTGAAGCTTAAGCATAACAAACGCCTCAAGAGGGACTGTCAA CGCGTAGCGTTTCCAGTCCCATTGAGCCGCGGTGGTTACGGTTGTTGTGTTTGAGTTTGGTGTTATGCGTT GTCAGCCCCTTAGGCGGGCGTTATGTAGGAGCAAGCCATGAGTAAAGG
C8	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTAGCTTCTTAAAGCAAAAATCATCAAAATCTGGGTTTAATTGTCCTAAAA ATTCAGATTTTAGCGTTCAAATTGCACAATTTGGCTTTTGAGCTTTTCTTGATGCTGATTTGGTCGAACGT GTTGAAAGTTCAGTGGGTGCAAAGTCGCTGAAAACTAGTAAGCCTCGATGCTTCAACGTTGTTGGATGTT CCGCTCGGAAAGTTTGATTTCACAAAATGCTGCATCATCGCTGTGATCTTGCTTTCTTTGTCGCGGACTCT TAACCGTGGCCAACTTAACCTTGATCGTTTTAAGTTTTGGTAGCCAACGTCACAGCTTTTGGCGTTGGACG TGTGCTTGCTTGATTCTTTTGCGTAAAATGCCTTTCAAACAAATGTGTTAAAAGCCATTGTTAAACAATAG GCTACGAAGCTAACAAACGCCTCAAGAGGGACTGTCAACGCGTGGCGTTTCCAGTCCCAATGAGCCGCG GTGGTTACGGTTGTTGTGTTTGGGTTTAGTAGTAATGCGTTGCCAGCCCCTTAGGCGGGCGTTATGTAGGA GCAAGCCATGAGTAAAGG
C9	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTAGCTTCTTAAAGGCTAAAATCATCAAAATCCCAACTTCTTGTTCTGAAA AATCAGCTTTTAGTATTCAAATTGCACAATTTGGCATTTGAATTTTTCTAGATGCTGATTTGGTAGAAAGT

		GTTGGAAGTTCCGCAGTTTCAAAGCCGCTGAAAGCCAACAAGCCTCGATGCTTCAAAGTTGTTGGATGTT CAACTCGGTCAACTTGGTTTCACAAAAAGCAGCATTGTCGCTGAAATCGCGCTTTCTTTGTCGGAAATTC GGTAAGTGGCCAACTTAACCTTGATCGCTGCGAGTTTTGGCAGCTCACTTCACAGCTTTTGGCGTTAGAC GTGTGTTTGAGTGATGCTTTTGCGTAAAATGCATTTCAAGCAAATGTGTTTAAAAAGTCATTTTTAAACAA TGGGTTATGAAGCTAACAAACGCCTCAAGAGGGACTGTCAACGCGTGGCGTTTCCAGTCCCATTGAGCCG CGGTGGTTTCGGTTGTTGTGTTTGGGTTTGGTTGTTATGCGTTGTCAGCCCCTTAGGCGGGCGTTATGTAG GAGCAAGCCATGAGTAAAGG
C10	*V. cholerae* N16961	CTCACCATGGCTTGCTCCTTTTAGTTTCTCTCAATCAAAAATCATCAAAATCTAAGCTCATTTGCATTAAA CATGCAGCTTTTAGTATCCAAATTTCACAAGTTGGCTTTTGAGTTTTGCTTGATGCTGATTTGGCAGAAAG CGTTGAAAACGCAGTAGTTTCAAAGTCGCCGCAAGCCAACAAGTCAAGATGCTTCAACGTTGTTGGGTGT TCAGCGCGGTCAGCTTAGTCTCACAAAAGGCAGCATCATCGCTGTGATCTGGTTTTCTTTGTCGCGGACTA TTAACAGTGGCCAACTTAACCTTGATCGTTTTAAGTTTTGGTAGCTTGCTTCACAGCTTTTGGTGTTGGAC GTGTGCTTGTAAGATGCATTTGCGTAAAATGCTTTTCAAGTAAAGGTGTTAAAAAACCATTGGTAAACAA TGGGCTACGAAACTAACAAACGCCTCAAGAGGGACTGTCAACGCGTGGCGTTTCCAGTCCCATTGAGCC GCGGTGGTTATGGTTGTTGTGTTTGAGTTTAGTGGTAGTGCGTTGCCAGCCCCTTAGGCGGGCGTTATGTA GGAGCAAGCCATGAGTAAAGG
F1	*V. fischeri* ES114	CTCACCATGGCTTGCTCCTTTTATACGAAATCAATGACGTCCAAATTATAAATATTTAATAGTAACCTACC TGATTTTACAGTTAGTAAGGCAGTGTCAATGTAATAAAATCGTAGTCACTCCTTACTTATGTGTTGCTGTA GACAAGCATTTCATGTCTGGGACTCAATTTTAGCCAATGAGTCCCTTTTTTTTGTGCCGAGGGGGGTAGCG TTAAAAACAAACCTGTCTTATTTTACAGTTGGTTAAGAGTGATTCCAGTAATAAACTGGAGCTCCTCATA ATTTTTGTGCTGCTGTAGACAGGCATTTCACGTTCAGGGTTCGATTCCAGTCATCGAGCCCTTTTTTTATTC ATATCTCTTGTGTTGTTTTAGCTGTGATAAGATGTAATTTATATTAAGTTTTGTATATATGCTTATTCAAAC TAAAGTAGACACGTATAACAAATGCATCAACACGATTTGCTACATTCGGCATTCTAGATTTCTTTGGGTTT GCCGCGTTAAGTGGTAAATTTAAGCTTAATCTGCATGGTAGCAAACGTGTTATGCAGGTGTTATGTAGGA GCAAGCCATGAGTAAAGG
F2	*V. fischeri* ES114	CTCACCATGGCTTGCTCCTTTTATACGAACTCTGAGAATGCAGTTTTTTGGTTCAGTTCAGCGATTGAACC ATTAGTTTTTTAGGTGTGAAAGTAAGGTGGTTTTCCTTTTTCTTTGTTGCCTTTTAGTGTTCGTTTCATCAG GTTCGGCATTGAACTATTATTGCCCCAAATTCAGGCGTTTCAGAAACTAATTTACGCTTCAATTGTTCATG GTTTTGCCTCATTTTAGCCTGCATCAGTGTTTTCCTCGCAGCATTTTCAATCCCAATTGTGGTTAGGATATT TGGTTTATTAGCTCAGAAGTTGATGAAACCAAATCGTACAAATAGTGTAAGAAAAAGGGATTGTTTCGTT TCACAATTATTGTTGTTGGTTGGATATTTTGCTCGCTTAATTGAGCCAGTCTAATTAAACTCAGTTTACAG CAAATCTTGGTAAATCAGTTCTTTACCAAGTTAATTGGAGCGAAAGCAAGGCTCGTATAACAAAGCAATC

		AACACGATGCTATTTACATTCGGCATTCGCGGTTTGGAGTATAATTGGTTTTGTAAGTCAGTCTTTCGCAC GTGTTATTGTGGCGTTATGTAGGAGCAAGCCATGAGTAAAGG
F3	*V. fischeri* ES114	CTCACCATGGCTTGCTCCTTTTGTGCGTACTAAGCCCGAAATTTTTTGCACGGTTCCTCAATAGAAACGAG ACTTTTTTTAAACGCTATTTAGCTATCACAAATCCTCTTCTTTGTTGCCTTTTAGCGTTCGTTTCATCAGGT TCGGCAATTAAGCATTGTCGGTCTAAGTTCAGGCGTTTCAGAGGCATTTTTACGCTTCAATGGTTCTTTGG TGTTGCATCATTTTACTCTGCATCCGTGTTTTCCTCGCAGCATTTTCAATCCCAGTTGTGGCGAGGATATTT GGTTTATCAGCTCAAAATCTGCTGAAACCAAGTCGTTCAAATGGTGTAAAAAATGTATCTGTTTTCCATTT ACTTCATCTCGCAGTTTAAGAACATTTTGTTCGCTTAATTAGCATCGTTAAATTAGAATCAGGGCTTAGAC AATTTTGGCGGGGCAGTTCTTTACCAAGTTGTCCAAGCCGAAAGAGAGTCCGCACAACAATCGCATCAAC ACGATTTACTACACTCGGCAATCTCAGTTTGCCGAGTGTTTCTCGTTTTAGGGCATCAATATTCAGTATAA TTGTATAGTAGTAAACGTGTTATGCAGGCGTTATGTAGGAGCAAGCCATGAGTAAAGG
P1	*V. parahaemolyticus* VPD14	CTCACCATGGCTTGCTCCTTTTAGGCGACGGGCAGGAAAGTTCTTTGTTCTCATCTTCTTAGTTCTCTTTGA GCATTCGTTTTTCTAAGTCGGCAACTTGGTATTGTCGGCTCAAATTCTTGAATCTCTCCAGCCGTAAAACA TGCCAAATTTCGCGGGTTGCCTCATTGGTTTTCAGTGTTGGATGGTGGTGAGTTTGACTTGCTCAAAGTGT GGCAAGGGCAAGTCAATTGAGGCTTTCGATTGCGCTGCTAGTTTGTCGCGTTGGCATTTTCGGGTTCAAA ACCCGCGTTGTTGTTGAAGGTCGGCATCTCGTGGTCGTTGGAATTTTGGCTGAAACATAGTGAGTTTTGTG GTTCTTGAATCACAAATAATCAGTGTATGTTTGGTTGCTTATTTTGTTTCGGGTAATCTGCTTTCAAACAA CCTTGAAACTGGTGTGAAACTTCGCCTAACAAGGCGTTCAAGACGGATTCACAACGCTTGGCGCTCTCGG TTTTCTTTGAGTTAAGTGATTATGTCACAATGGTTTAGGTAGGGTGGTAGGCGTTGCTCACCACTTAACGC GGCGTTATGTAGGAGCAAGCCATGAGTAAAGG
P2	*V. parahaemolyticus* VPD14	CTCACCATGGCTTGCTCCTTTTAGTTGCCAACGAGGAAAACGTACCCAAAGCAGATTGTTTAGGGCTAAT GTCCGTGTGTTTTTGGCTAGGTTTTCGTATTTCAATTTCTAGTTATTTAGGTTTGTGAAAATCGATCGTTGG TTTCTCTTGTGGTTGAATTTTCTATTTCAGAAACCGATTTATATGTTGAAAGTTAGCTGTGTAACATTGTCT GTCCAAAGGAGCTTTTTGGTGTTGTTAGCCCGTTTTCTACGGCGTTGTATGTACCAAGTGGTTTCAGTTAC AGTCGCTTTGAATCTGCGCCTGATTTGAGTTTTTCAACGTACGTAAAGTTAGCGTTGGCAAAGTGGCAATT AACTTCAAATCAAAGTGTTAGACTTGGCAACTAACAAAGCATTTAAGAGGGATTCACAACGCTTGGCGGT TTTGGTTTGAATCGGCTTTAGTGTTTACGGCACAATGGTTTAGGTCAGGTGGTGGCGTTGTTCACCCCTTA ATGCGGCGTTATGTAGGAGCAAGCCATGAGTAAAGG
P3	*V. parahaemolyticus* VPD14	CTCACCATGGCTTGCTCCTTTTAGTCGCCAGAAAAAGCTAGAAGTCAAAATCATGTTTCTAAGCTCAAAA CTTGGCTACTGGTTGTTTGATTCATAGTTCCATCTTCGACGGTCAAAGCTCAGTTTCATCGGTTCTAAATC AATGCAATGCTATTTTCCAAGCGGTTGTTTCGTTCTTTGGTGGTGATAGAGCGGGGCAATCGAAAATCTG TTTTTGGTTGCAAATCTGCTCGGTGAGTTGGTTGGTTTAAAAGCTTATTTACTTGCTGAAATGACGTTTTCT

		CTGGTGTTGTAAGTTCCACGTGGTTTCAGTGACTTTGTTGAAAGTCCGCACTGTTAGATTGGTTTTCCAAA AGCGCTTTTTGGTGTTGTTAGCCCGTTTTCTGCGGCGCTGTTTTTTCTAAGTGGTTTCATTGAGTAGCCGCT TTGAGACTACGCCTGACTTAAGTGCATCAAAACACATAAAGTTTGTTGTTTGCAAAGTTTAGTTCGGCTTA AAATTGTCGCTCGGTGCCTCGCGACTAACAAACTGCTCAAGAGGGATTCGCAACGCTTGGCATTTTTACT ATGCGTTGAATTTAGTGATTAAGGTGGTATGCGGCGGCTTCGGTATTGCGTTGCTCACCCCTTAGCAGGG CGTTATGTAGGAGCAAGCCATGAGTAAAGG
P4	*V. parahaemolyticus* VPD14	CTCACCATGGCTTGCTCCTTTTAGGCGACAGGCAGGAAAGTTCTTTGTTCTTACCTTCTTGTTCCCTCTGGC AATTCGCTTTTCGTAGTCGGCAATTAAGCATTGTCGGCTCAACTTCTTGAATCTCTCCAGCCGTAAAACAT GCAAAGGTTCGTGGGTTGCCTCATTAGTTTTCATTGTCGGTTGGTGGATAATTTCACTGGCTCAAAGTGTG GCAGGGGCAAGTTAATCTCGGCTTTCGTTCTCGCTGTAAGTTTGTAGCTTTACGTTTCGCTTGCTCAAAAG CAACTTGAACGCTGAAAGTCAGCATTTTGTGGTTGTGGATATATGGGCTGAAACATAGTGGCTTTTGTGG TTCTTGAACCACAAAAAGTCAGTGGGTGTTTGTTGCTTATAAGGTTTCGGGTAATCTATTTTCAAACCAAC TTAAACACTGGTGGGAAACTTCGCCTAACAAGGCGTTTAAGGCGGATTCACAACGCGTGGCGATTTCAGT TCAAGTCTAGTTTAGTGTTTAAGGTGTAGTGTTTAGGTGTGGTGGTTTGCGTTGTTCACCACTTAACGCGG CGTTATGTAGGAGCAAGCCATGAGTAAAGG
V1	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGCTTAATCAGGTAAAATCAGTGGTTTATGGTTTTTCTTTGCTCCCTCA GCTTTTCAGTTTGGTGTTTGTCGGCAAGTTGGCTGTTTTGAGCGCTGTTTTTCGGACATCCATTCTTTGGCG CTGGAAATTCCGAGAGTTGCCTCAATCAATTTTTGGGTAAGCGCGAGGTTAGGGCGGTTGGCTCAATCAG AAATCCATTTATAGGTTTTCAAACTTCAAACCAGATTTGCCAAAATTCCTAGTCTGATTATCAAAACTATG ATTCATTTCGGTTTTCTACGTTTTGGTTTTTGTTTGTAAATCAAAGTCGAGTTAATCTTGTTTTTAGTAAAA CGTAAGCCATTGAAGCTTAAGCATAACAAGGCGTTTAAGTGGGATTCATGCCGCGTGGCATTTTGGGTAT GCGGTGAATTTTGGTGGTGAAAGTGGTCTGCGGAAAGTTGGTTTAGGCGGCACTCACCCCTTAACGCGGC GTTATGTAGGAGCAAGCCATGAGTAAAGG
V2	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGTTTAGTCACGTAAAATCAGTTGGTTGCATCTTTTCTTTGCTTTCTCA GCTTTCTAATTTTGGTCTTGTCAGCAAGTTAACTTCAGTGTTCGCTGTTTTCTGGACTCCAATTCGTGGGCG CGAAAAATTCAGAGAATTGCCTCATTGAAATTCAGTGCGCTTGTGAGTCGAATGAAGCTGCCTTAGTTTT AAGTTTGAGCTCAAGTTTTCTGTTTCTCACGCTAAAACCCAAAGTCATTAAAACTAAATTTATGAGTTAAT TCAGCTTTTTAGCGTCTGGTTTTGGTTTGCAAAGGTAAGTCGAGTTAAGCTCTTGGTATCGCAAACTCAAC CCTTTGTGTCTTAAACATAACAAGGCGTTTAAGCGGGATTCATGCCGCGTGGCATTTTTGGTTTGTAGTGA GTTTTGGTGGTGAAAGTGGTCTGCGGCAGCTTGGTTTATGCGGCATTCACCCCTTAACGCAGCGTTATGTA GGAGCAAGCCATGAGTAAAGG

V3	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGTTTAGTCACGTAAAATCAGTTGGTTGCATCTTTTCTTTGTACTCTCG GCTTTCTAATTTTGGTCTTGTCGGCAGGTTAACTTCAGTGTTCGCTGTTTTCTGGACTCCAATTCGTGGGCG CTAAAAATTCAGAGAGTTGCCTCATTAAAGTTCAGTGCGTTTTTGAGTCGAATGAAGCGATCTTAGTTTC AAAGTTTGAGCACCAGTTTTTCGGTTTCTCACGCTAAAACTCAATATCAGTACAATCAAATTTATGAGTTA ATTCAGTTTTTTAGCTTCTAGTTTTGGTTTGCAAAGTTAAGTCGAGTTAAGCTATTGGTTTCGTAAAACTT AACCCTTTGTGTCTTAAACATAACAAGGCGTTTAAGAGGGATTCATGCCGCGTGGCATTTTTGGTATGCG GTTGGTTTTGGTGGTGAAAGTGGTCTGCGGAAGGTTCGTTTATGCGGCATTCACCCCTTAACGCGGCGTT ATGTAGGAGCAAGCCATGAGTAAAGG
V4	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGCTTAATCACGTAAAATCAGTGGTTTATGGTTTTTCTTTGTTCCCTAG GCTTTTCAGTTTTGTGTTTGTCGGCAAGCCAGCTTTTTTGAGCACTGTTTTTCGGACACTTATTCTTTGGCG CTGGAAATTCAGAGAATTACCTCATTCAATTCTCGGGCAAGCGCGAGGTTAGGGCGGTTGGCTCAATCAG AAATCCATTTTTAGGTTTTCAACTCCAAGCCAGTTTTGCCAAAATCCGAAGTCTGATTATCAAAACTATGA TTCATTTCGGTTTTCTACGTTTTGGTTTTTGTGTGTAAATCAAAGTCGAGTTAATCTTGGTTTTGGTCAAAC GTAACCCATTGAAGCTTAAGCATAACAAGGCGTTTAAGCGGGATTCATGCCGCGTGGCATTTTGGGTTTG CGGTGAGTTTTGGTGGTGAAAGTGGTCTGCAGAAGCTTGGTTTATGCGGCATTCACCCCTTAACGCGGCG TTATGTAGGAGCAAGCCATGAGTAAAGG
V5	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGTTTAGTCACGTAAAATCAGTTGGTTGCATCTTTTCTTTGTTCCTTCG TATTTCTAATTTTGGTCTTGTCGGCAAGTTAAATTCAGTGGTCGCTGTTTTCTGGACTCCAATTCGTGGGC GCTAAAAATTCAGAGTGTTGCCTCATTTAAGTTCAGTGCGTTTGTGAGTCGAATGAAGCGATGTTAGTTTC AACGTTTGAGCACCAGTTTTCGGTTTCTCACGCTAAAACTTCAATATCAGTACAATCAAAATTATGAGTTA ATTCAGCTTTTTAGCTTCTAACTTTGGTTTTCAAAGTTAAGTCGAGTTAAGCTCTTGGTATCGTAAAACTT AACCCTTTGAGCCTTAAACATAACAAGGCGTTTAAGCGGGATTCATGCCGCGTGGCATTTTTGGTTTGCG TTGAGTTTTGGTGGTGAAAGAGGTCTGCGGAAACTTGGTTTAGGCGGCACTCACCCCTTAACGCAGCGTT ATGTAGGAGCAAGCCATGAGTAAAGG
V6	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGTTTAGTCACGTAAAAACAGTGGGTTGCATCTATTCTTTGTTTCTTCG TATTTCTAATTTTGGTCTTGTCGGCAAGTTACGTTTAGTGGTCGCTGTTTTCTGGACTCCAATTCGTGGGCG CTAAAAATTCAGAGAGTTGCCTCATTGAATTCCAGAATGTAGGCGAGGTGAGTGAAGTGATTTTGATTTC AAAGTTAGAGCCCCATCTTTTCGATTTCTCACGTTATAAGTCAAAGTCGGCACAATCAAAATTATGATTTA ATTCAGCTTTTTAGCGTCTGGTTTTGGTTTGCAAAGGTAAGTCGAGTTAAGCTATTGGTATCGCAAACTTA ACCCTTTGAGCCTTAAACATAACAAGGCGTTTAAGAGGGATTCATGCCGCGTGGCATTTTTGGTATGCGG TGAGTTTTGGTGGTGAAGGTGGTCTGCGGAAGCTTGGTTTATGCGGCATTCACCCCTTAACGCGGCGTTA TGTAGGAGCAAGCCATGAGTAAAGG

V7	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGCTTAATCACGTAAAATCAGTGGTTTATGGCTTTTCTTTGTTCCCTCA GCTTTTTGACTTTGAGCTCGTCGGCAAGTTGGTTTCAGTGGGCGCTGTTTTCTGGACACTTATTCTTTGGC GCTGGAAGTTCAGAGAATTGCCTAAATCAGTTTTCGCGTAAGCGCGAGGTTAGGGCAGTTGGCTTAATCA GATATTTGAACTTGGCTTTTTGAGTTTTAGTCGCCAAATTTCAAAGTCCGATTTTTAAAACAATGAGTCAT TTCGGTTTTCTACGTTTTGTCTTTTGTTTGTAAATCAAAGTCGAGTTAATCTTGGTTCTAGCAAAACGTAAC CCATTGAAGCTTAAGCATAACAAGGCGTTCAAGAGGGATTCATGCCGCGTGGCATTTTTGGTATGCGGCG AGTTTTGGTGGTGAAAGTGGTCTGCTGAAGGTTGGTTTGAGCGGCACTCACCCCTTAACGCAGCGTTATG TAGGAGCAAGCCATGAGTAAAGG
V8	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGCTTAATCACCTAAAATCAGTGGTTTATGGTTTTTCTTTGTTCCCTAG GCTTTTCAGTTTTGTGTTTGTCGGCAAGCTGGCTTTTTTGAGCGCTGTTTTTCGGACACTTATTCTTTGGCG CTAGAAATTCAGAGAATTGCCTCATTCAATTCTTGGGCAAGCGCGAGGTTAGGGCTGTTGGCTCAATCAG AGATTTGATCTTAGGTTTTTTCGTTTTAGCTGCCAAATTTCAAAGTCTGATTTTCAAAATCATGAGTCATTT CAGTTTTTTGGTTTTTGGCTTTTGTTTGTGAATCAAAGTCGAGTTAATCTTGTTTTTAGTAAAACGTAAGCC ATTGAAGCTTCAGCATAACAAGGCGTTTAAGCGGGATTCATGCCGCGTGGCATTTTTGGTTTGCAGTGAG TTTTGGTGGTGAAAGTGGTGTGCGGAAGGTTGGTTTATGCGGCATTCACCCCTTAACGCAGCGTTATGTA GGAGCAAGCCATGAGTAAAGG
V9	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGTTTAGTCACGTAAAATCAGTTGGTTGCATCTTTTCTTTGCTTTCTCA GCTTTCTGATTTTGGTCTTGTCGGCAAGTTACGTTTAGTGGTCGCTGTTTTCTGGACTCCAATTCGTGGAC GCTAAAAATTCAAAGAGTTGCCTCATTGAAATTCAGTGCGTTTGTGAGTCGAATGAAGCGATGTTAGTTT CAACGTTTGAGCACCAGTTTTCGGTTTCTCTCGCTAAAATCTCAATATCAGTACAATCAAATTTATGAGTT AATTCAGCTTTTTAGCTTCTAACTTTGGTTTTCAAAGATAAGTCGAGTTAAGCTCTTGGTATTGCAAAACT TACCCCTTTGAGTCTTAAACATAACAAGGCGTTTAAGAGGGATTCATGCCGCGTGGCATTTTTGGTTTGCA GTGAGTTTTGGTGGTGAAAGTGCTCTGCGGAAAGTTGATTTATGCGGCATTCACCCCTTAACGCAGCGTT ATGTAGGAGCAAGCCATGAGTAAAGG
V10	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGCTTAATCACGTAAAATCAGTGGTTTATGGTTTTTCTTTGTTCCCTCG GCTTTTCATTTTTGTGTTTGTCGGCAAGTTGGCTTTTGTGAGCGCTGTTTTTCGGACACTTATTCTTTGGCG CTGGAAATTCAGAGAATTGCCTCATTCAATTCTTGGGTAAGCGCGAGGTTAGGGCGGTTGGCTCAATCAG AAATCCATTTCTAGGTTTTCAAACTTCAAAATGGATTTGCCAAAATCCCGAACCTGAATATCAAAACTAT GATTCATTTCAGTTTTCTACGTTTTGGTTTTTGTTTGTAAATCAAAGTCGAGTTAATCTTGTTTTTAGTAAA ACGTAAGCCATTGAAGCTTAAGCATAACAAGGCGTTTAAGAGGGATTCATGCCGCGTGGCATTTTTGGTT TGCAGTGAGTTTTGGTGGTGAAAATGGTCTGCGGAAAGTTGGTTTATGCGGCATTCACCCCTTAACGCAG CGTTATGTAGGAGCAAGCCATGAGTAAAGG

V11	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGTTTAATCACGTAAAATCAGCCGGTTGCATCTTTTCTTTGTTCCTTCG CATTTCCAATTTTGGTCTTGTCGGCAAGTTGGCTTTCGGTGGTCGCTGGTTTCTGGACTCCAATTCGTGGG CGCGAAAAATTCTGAGAGTTGCCTCATTAAAGCTCAGTGCGTTTGTGAGTCGAATAAAGCGTCTTAGTTT CAAAGTTTGAGCTCCAGCTTTCGGTTTCTCACGCTAAAAATCAAAATCATTAGAATCAAATTTATGAGTT AATTCAGCTTTTTAGCGTCTGATTTTGGTTTTTAAAGGTAACTCGAGTTAAGCTCTTGGTATCGCAAAACT TAACCCTTTGAGCCTTAAACATAACAAGGCGTTTAAGAGGGATTCATGCCGCGTGGCATTTTTAGTATGC GGTGAGTTTTGGTGGTGAAAGTGGTCTGCGGAAACTTGGTTTAGGCGGCACTCACCCCTTAACGCGGCGT TATGTAGGAGCAAGCCATGAGTAAAGG
V12	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGCTTAATCACGTAAAATCAGTTGGTTATGGTTTTTCTTTGTTCCCTCG GCTTTTCAGTTCGGTGTTTGTCGGCAAGTTGGCTTCTTAGAGCGCTGTTTTTCGGACATTTATTCTTTGGCG CTGGAAATTCAGAGAGTTGCCTCAGTCAATTTTCGGGTAAGCGCTAGGTTAGGGTAGTTGGCTCAATCAG AAATTTGATCTTAGGTTTTTTCGTTTTGGCTGCCACAGTTCAAAGTCTGATTTTCAAAATCATGAGTCATTT CAGTTTTTTGGTTTTTGGCTTTTGTGTGTAAATCAAAGTCGAGTTAATCTTGGTTTTGGTCAAACGTAACC CATTGAAGCTTAAGCATAACAAGGCGTTTAAGAGGGATTCATGCCGCGTGGCATTTTTGGTTTGCAGTGA GTTTTGGTGGTGAAAATGGTCTGCGGAAAGTTGGTTTATGCGGCATTCACCCCTTAACGCAGCGTTATGT AGGAGCAAGCCATGAGTAAAGG
V13	*V. vulnificus* FDAARGOS_663	CTCACCATGGCTTGCTCCTTTTATGTTTAGTCACGTAAAATCAGTTGGTTGCAGATTTTTTTGCTTTCTAAT TTTGGCCTTGTCGGCAAGCTGGCTTTCGGTGGTCGCTGTTTTCTGGACTCCAATTCGTGGGCGCTAAAAAT TCTGAGAGTTGCCTCATTAAAGCTCAGTGCGTTTGTGAGTCGAATAAAGCGTCTTAGTTTCAAAGTTTGA GCTCTAGTTTTCTGTTTCTCACGTTAAAACTCAAAGTTAGCACAATCAAATTTATGATTTAATTCAGCTTTT TAGCGTCTGGTTTTGGTTTGCAAAGGTAAGTCGAGTTAAGCTATTGGTATCGCAAACTTAACCCTTTGAGC CTTAAACATAACAAGGCGTTTAAGCGGGATTCATGCCGCGTGGCATTTTTTGTTTGCGGTGATTTTTGGTG GTGAAAGTGGTCTGCAGAAGCTTGGTTTATGCGGCATTCACCCCTTAACGCGGCGTTATGTAGGAGCAAG CCATGAGTAAAGG
*lacZ*450	*V. cholerae* N16961	AAACCCGCACATCGTTAAATGGCACTGCCGTACACCCCATGTTCCTTTGCACAGTTATCGCACTGAGCAG GAGGCTCGTTTGGATGTTGGGGGGAATCGCCAATCTCTAAATGGTCAGTGGCGGTTTGCTCTGTTTGAGA AGCCAGAAGCGGTTGAGCCTGCGGTGATAGACCCGGATTTCGATGATAGCGCTTGGGCGCACATTCCTGT ACCGAGTAACTGGCAGATGCAAGGCTTTGATAAGCCGATTTACACCAATATCCAATATCCATTTGCGGAT CGGCCGCCTTACGTGCCGCAAGATAATCCAACCGGCTGTTATCGCCACCGTTTTACACTGGAAAAACAAG CGCTAACCGAGTCCATTCGCATTGTATTTGATGGGGTCAATTCGGCATTTCATCTGTGGTGCAATGGTCAT TGGGTCGGTTATTCGCAAGATAGCCGCTT

*lacZ*550	*V. cholerae* N16961	AAACCCGCACATCGTTAAATGGCACTGCCGTACACCCCATGTTCCTTTGCACAGTTATCGCACTGAGCAG GAGGCTCGTTTGGATGTTGGGGGGAATCGCCAATCTCTAAATGGTCAGTGGCGGTTTGCTCTGTTTGAGA AGCCAGAAGCGGTTGAGCCTGCGGTGATAGACCCGGATTTCGATGATAGCGCTTGGGCGCACATTCCTGT ACCGAGTAACTGGCAGATGCAAGGCTTTGATAAGCCGATTTACACCAATATCCAATATCCATTTGCGGAT CGGCCGCCTTACGTGCCGCAAGATAATCCAACCGGCTGTTATCGCCACCGTTTTACACTGGAAAAACAAG CGCTAACCGAGTCCATTCGCATTGTATTTGATGGGGTCAATTCGGCATTTCATCTGTGGTGCAATGGTCAT TGGGTCGGTTATTCGCAAGATAGCCGCTTGCCTGCCGAGTTTGAGTTAACCCCTTATCTACAAGAGGGTG AAAACCTGTTGGTGGCCATGGTGCTGCGCTGGTCTGATGGCTCTTATTTGGAAGACCAA
*lacZ*650	*V. cholerae* N16961	AAACCCGCACATCGTTAAATGGCACTGCCGTACACCCCATGTTCCTTTGCACAGTTATCGCACTGAGCAG GAGGCTCGTTTGGATGTTGGGGGGAATCGCCAATCTCTAAATGGTCAGTGGCGGTTTGCTCTGTTTGAGA AGCCAGAAGCGGTTGAGCCTGCGGTGATAGACCCGGATTTCGATGATAGCGCTTGGGCGCACATTCCTGT ACCGAGTAACTGGCAGATGCAAGGCTTTGATAAGCCGATTTACACCAATATCCAATATCCATTTGCGGAT CGGCCGCCTTACGTGCCGCAAGATAATCCAACCGGCTGTTATCGCCACCGTTTTACACTGGAAAAACAAG CGCTAACCGAGTCCATTCGCATTGTATTTGATGGGGTCAATTCGGCATTTCATCTGTGGTGCAATGGTCAT TGGGTCGGTTATTCGCAAGATAGCCGCTTGCCTGCCGAGTTTGAGTTAACCCCTTATCTACAAGAGGGTG AAAACCTGTTGGTGGCCATGGTGCTGCGCTGGTCTGATGGCTCTTATTTGGAAGACCAAGATATGTGGTG GCTGAGTGGCATCTTTCGCGATGTGTATCTCTACCGCAAGCCGATACTCGCGATTGAAGATTTTTTTATCC GCACTGAATTAGATGCGC

Supplementary Table S2. Primers used in this study.

Oligo	Sequence (5' → 3')	Description
bb_pSU38_long_F	CTCACCATGGCTTGCTCCTTAGG AGCAAGCCATGAGTAAAGG	Construction of pDProm. Amplification of pA369 backbone.
bb_pSU38_long_R	GGACGAGCTGTACAAGTAAAAT TGCGTTGCGCTCACTGC	Construction of pDProm. Amplification of pA369 backbone.
bb_pSU38_F	AGGAGCAAGCCATGAGTAAAGG	Amplification of pDProm backbone for cassettes cloning.
bb_pSU38_mCherry _R	AAGGAGCAAGCCATGGTGAG	Amplification of pDProm backbone for cassettes cloning.
pDProm_lacZ_F	CTCACCATGGCTTGCTCCTTAAA CCCGCACATCGTTAAAT	Amplification of *lacZ* gene.
pDProm_lacZ450_R	CCTTTACTCATGGCTTGCTCCTA AGCGGCTATCTTGCGAATAA	Amplification of *lacZ* gene. Construction of pDProm-*lacZ*450.
pDProm_lacZ550_R	CCTTTACTCATGGCTTGCTCCTTT GGTCTTCCAAATAAGAGCCA	Amplification of *lacZ* gene. Construction of pDProm-*lacZ*550.
pDProm_lacZ650_R	CCTTTACTCATGGCTTGCTCCTG CGCATCTAATTCAGTGCG	Amplification of *lacZ* gene. Construction of pDProm-*lacZ*450.
MRVII	GGTTTCCCGACTGGAAAGCG	Check of insert presence in pDProm.
MFD	CGCCAGGGTTTTCCCAGTCAC	Check of insert presence in pDProm.
bb_pSU38_dfrB9_F	CGTTAGGCGTCGAGCTGCTCTAG ACAGCGCCGTCGTTGC	Construction of pDProm-*drfB9*. Backbone amplification.
bb_pSU38_dfrB9_R	TTCGCATTGCGGGGCCTAACAAG GAGCAAGCCATGGTGAG	Construction of pDProm-*drfB9*. Backbone amplification.
dfrB9_pSU38_F	CTCACCATGGCTTGCTCCTTGTT AGGCCCCGCAATGCGAA	Construction of pDProm-*drfB9*. Cassette amplification.
dfrB9_pSU38_R	GCAACGACGGCGCTGTCTAGAG CAGCGTCGACGCCTAACG	Construction of pDProm-*drfB9*. Cassette amplification.
Plac_dfrB9_F	TCACACAGGAAACAGCTATGGT TAGGCCCCGCAATGCGAA	Construction of pDProm P_{lac}-*drfB9*. Cassette amplification.
bb_pSU38_plac_R	TTCGCATTGCGGGGCCTAACCAT AGCTGTTTCCTGTGTGA	Construction of pDProm P_{lac}-*drfB9*. Backbone amplification.
bb_dfrB9_E7_F	CACTTAACGCGGCGTTATGTGTT AGGCCCCGCAATGCGAA	Construction of pDProm E7-*drfB9*. Backbone amplification.

E7_dfrB9_R	TTCGCATTGCGGGGCCTAACACA TAACGCCGCGTTAAGTG	Construction of pDProm E7-*drfB9*. Cassette amplification.
bb_dfrB9_D11_F	GTGTTATGCAGGCGTTATGTGTT AGGCCCCGCAATGCGAA	Construction of pDProm D11-*drfB9*. Backbone amplification.
D11_dfrB9_R	TTCGCATTGCGGGGCCTAACACA TAACGCCTGCATAACAC	Construction of pDProm D11-*drfB9*. Cassette amplification.
bb_dfrB9_C12_F	CCCTTAGGCGGGCGTTATGTGTT AGGCCCCGCAATGCGAA	Construction of pDProm C12-*drfB9*. Backbone amplification.
C12_dfrB9_R	TTCGCATTGCGGGGCCTAACACA TAACGCCCGCCTAAGGG	Construction of pDProm C12-*drfB9*. Cassette amplification.
bb_dfrB9_D1_F	CCCTTAGGCGGGCGTTATGTGTT AGGCCCCGCAATGCGAA	Construction of pDProm D1-*drfB9*. Backbone amplification.
D1_dfrB9_R	TTCGCATTGCGGGGCCTAACACA TAACGCCCGCCTAAGGG	Construction of pDProm D1-*drfB9*. Cassette amplification.
bb_dfrB9_F11_F	CCCTTAACGCGGCGTTATGTGTT AGGCCCCGCAATGCGAA	Construction of pDProm F11-*drfB9*. Backbone amplification.
F11_dfrB9_R	TTCGCATTGCGGGGCCTAACACA TAACGCCGCGTTAAGGG	Construction of pDProm F11-*drfB9*. Cassette amplification.
C7_dfrB9_F	GCCTCACCTCGAACGTTATGCTT AATCCATAAAAATCAGC	Construction of pDProm-C8-dfrB9-C7. Cassette amplification.
C7_dfrB9_R	GAGCAGCGTCGACGCCTAACGC CCGCCTAAGGG	Construction of pDProm-C8-dfrB9-C7. Cassette amplification.
F1_dfrB9_F	TTTGCGCCTCACCTCGAACGTTA TACGAAATCAATGACGTCC	Construction of pDProm-C8-dfrB9-F1. Cassette amplification.
F1_dfrB9_R	AGAGCAGCGTCGACGCCTAACA CCTGCATAACACGTTTGC	Construction of pDProm-C8-dfrB9-F1. Cassette amplification.
pSU_dfrB9_F	TTAGGCGTCGACGCTGC	Construction of pDProm-C8-dfrB9-F1 and pDProm-C8-dfrB9-C7. Backbone amplification.
pSU_dfrB9_R	CGTTCGAGGTGAGGCG	Construction of pDProm-C8-dfrB9-F1 and pDProm-C8-dfrB9-C7. Backbone amplification.
gyrA_rt_F	GAGCCAAAGTTACCTTGGCC	*gyrA* amplification for RT-qPCR

gyrA_rt_R	AATGTGCTGGGCAACGACTG	*gyrA* amplification for RT-qPCR
gyrA_PRB	[5SUN]-CACCCTCAT-[ZEN]-GGTGACAGTGCGGTTT-[IBFQ]	*gyrA* probe for RT-qPCR
gfp_rt_F	GGTGAAGGTGATGCAACATA	*gfp* amplification for RT-qPCR
gfp_rt_R	GAAGACCATACGCGAAAGTAG	*gfp* amplification for RT-qPCR
gfp_PRB	[6FAM]-ACCTGTTCC-[ZEN]-ATGGCCAACACTTGTCA-[IBFQ]	*gfp* probe for RT-qPCR
mCherry_rt_F	CTACTTGAAGCTGTCCTTCC	*mCherry* amplification for RT-qPCR
mCherry_rt_R	TAGATGAACTCGCCGTCT	*mCherry* amplification for RT-qPCR
mCherry_PRB	[56FAM]-TCAAGTGGG-[ZEN]-AGCGCGTGATGAACT-[IBFQ]	*mCherry* probe for RT-qPCR
F1_gsp1_R	GCGGCAAACCCAAAGAAATCTA	5'RACE of cassette F1
F1_gsp2_R	GAATGCCGAATGTAGCAAATCG	5'RACE of cassette F1
F1_gsp3_F	CAGTTAGTAAGGCAGTGTCAATGT	5'RACE of cassette F1
F1_gsp4_R	CATCTTATCACAGCTAAAACAACAC	5'RACE of cassette F1
F1_ant_gsp1_R	CTCCTTTTATACGAAATCAATGACG	5'RACE of cassette F1 (antisense)
F1_ant_gsp2_R	CAGTTAGTAAGGCAGTGTCAATGT	5'RACE of cassette F1 (antisense)
F1_ant_gsp1_R	TTAACGCGGCAAACCCAAAG	5'RACE of cassette F1 (antisense)
F2_gsp1_R	CCACAATAACACGTGCGAAAGA	5'RACE of cassette F2
F2_gsp2_R	GACTGACTTACAAAACCAATTATACTC	5'RACE of cassette F2
F2_gsp3_F	GTGTTCGTTTCATCAGGTTCGG	5'RACE of cassette F2
F2_gsp4_R	TTATACGAGCCTTGCTTTCGC	5'RACE of cassette F2
C5_gsp1_R	GGCTGGCAACGCATTACTACT	5'RACE of cassette C5
C5_gsp2_R	AAACCCAAACACAACAACCGT	5'RACE of cassette C5
C5_gsp3_F	TGATGCTGATTTGGTCGAACG	5'RACE of cassette C5
C5_gsp4_R	TCGTAGCCTATTGTTTAACAATGGC	5'RACE of cassette C5
V11_gsp1_R	GGTGAGTGCCGCCTAAAC	5'RACE of cassette V11
V11_gsp2_R	CAAGTTTCCGCAGACCACTTTC	5'RACE of cassette V11
V11_gsp3_F	ATCACGTAAAATCAGCCGGTTG	5'RACE of cassette V11
V11_gsp4_R	CCAAGAGCTTAACTCGAGTTACC	5'RACE of cassette V11
V7_gsp1_R	CTCAAACCAACCTTCAGCAGAC	5'RACE of cassette V7
V7_gsp2_R	CACTTTCACCACCAAAACTCGC	5'RACE of cassette V7
V7_gsp3_F	GGTTTATGGCTTTTCTTTGTTCCC	5'RACE of cassette V7

V7_gsp4_R	TGCTAGAACCAAGATTAACTCGAC	5'RACE of cassette V7
M13_F	CTGGCCGTCGTTTTAC	Check insert in pTOPO-TA
M13_R	GTCATAGCTGTTTCCTG	Check insert in pTOPO-TA

Supplementary Table S3. Putative promoter sequences detected with 5'RACE

Cassette	TSS position	-10 box	-35 box
F1	35	TTATAA	TTATAC
	122 (as)	ACATGA	CTCATT
	191	GTGCCG	TTTAGC
	194	CCGAGG	AGCCAA
	197	AGGGGG	CAATGA
	240 (as)	AGCTCC	CTACAG
	283 (as)	TGAACG	AGGGCT
	317	GTTCGA	TGTAGA
	364	TGTTTT	TTCATA
	375	TGATAA	CATATC
F2	239	TTTTCC	TTAGCC
	408	TAATTA	TTGAGC
	430	TGGTAA	TTACAG
	440	GTTCTT	TTTACA
	455	TAATTG	TGGTAA
	466	AAGCAA	TTACCA
	474	GTATAA	AAGTTA
	490	ATCAAC	GAAAGC
	510	ATTCGG	AAGCAA
C5	220	AAAATG	TTCCGC
	293	CGTTTT	TAACCG
	337	CGTGTG	CAACGT
	346	GCTTGA	TTGGAC
	367	TCAAAC	TTGATT
V7	12	TTATGC	-
	107	GGGCGC	AGCTCG
	134	TTGGCG	GCGCTG
	159	TAAATC	TTCAGA
	165	TCAGTT	TGGAAG
	185	AGGTTA	CTAAAT
	252	AAGTCC	TGAGTT
	261	TTAAAA	TAGTCG
V13	106	GTGGTC	TGGTCT
	195	TAAAGC	TGCGTT
	222	TCCAGC	GCGTCT
	226	CTTTCG	TTAGTT
	227	TTTCGG	TTAGTT
	244	TAAAAA	TTCGGT

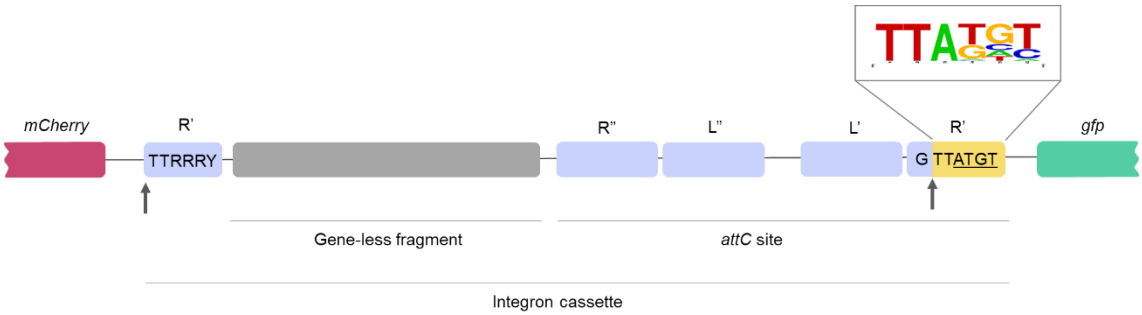
(as): Antisense

Supplementary Table S4. Putative promoter position and scores predicted by BPROM

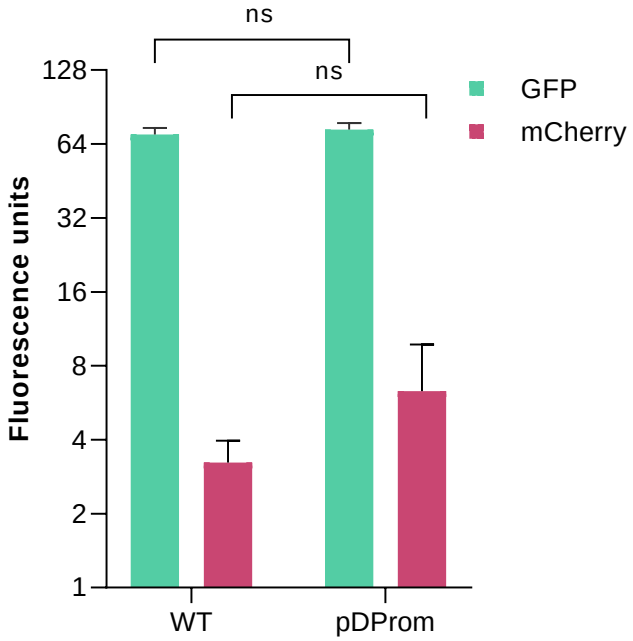
Gene-less cassette or promoter	Strand	Score -10 box	Score -35 box	-10 box	-35 box	LDF
P_CS	Sense	63	66	TCGTAAACT	TTGACA	5,97
P_{lac}	Sense	44	47	TCGTATGTT	TTTACA	3,94
P_CW	Sense	47	29	TCGTAAGCT	TGGACA	3,10
C1	Sense	60	40	TTGTAAATT	TTCAAA	4,64
	Antisense	32	61	GTGTATTAA	TTGCCA	2,37
C2	Sense	50	38	AGTTCTAAT	TTCATA	3,56
	Antisense	67	66	TGTTATGCT	TTGACA	6,50
		20	24	ATCGACAAT	CTGAAT	0,91
C3	Sense	34	36	AGGTTGAAT	TTGATC	2,59
	Antisense	69	40	TTTTAAACT	TTGTTT	4,15
		5	38	TTTCAGAAC	TTGAAC	0,34
C4	Sense	70	0	GCGTAAAAT	GTGCGT	3,59
		32	30	CCTGAAAAT	TTATCA	1,12
	Antisense	38	66	TGTTAGCTT	TTGACA	2,76
		24	38	CAGGACAAT	TTGAAC	1,60
C5	Sense	70	15	GCGTAAAAT	GTGCTT	2,74
	Antisense	34	45	TTTAACAAT	TTGTTA	3,61
		77	-6	CGCTAAAAT	AAGCCA	3,44
C6	Sense	39	46	CGCTGAAAT	TTCACA	3,22
	Antisense	42	66	TGTTAGTTT	TTGACA	2,37
		47	34	TAGCAAAAT	TTTCTA	2,21
C7	Sense	56	30	CTGTAAATT	ATGAAA	3,82
		42	39	TGGTGTTAT	TTGTTG	0,50
	Antisense	67	66	TGTTATGCT	TTGACA	6,50
		-6	55	GAACGAAAT	TTGAAT	1,04
C8	Sense	70	15	GCGTAAAAT	GTGCTT	2,74
	Antisense	34	45	TTTAACAAT	TTGTTA	3,61
		77	-6	CGCTAAAAT	AAGCCA	3,44
C9	Sense	70	7	GCGTAAAAT	GTGTTT	2,89
		40	10	CTGAAAAAT	ATCAAA	1,04
	Antisense	41	40	TTGAATACT	TTCAAA	2,32
		38	66	TGTTAGCTT	TTGACA	2,28
C10	Sense	70	15	GCGTAAAAT	GTGCTT	4,37

	Antisense	38	22	GACTAAGCT	ATGATG	2,47
P1	Sense	60	25	GGGTAATCT	TTGGTT	5,02
		56	24	TGGTATTGT	TTTCTA	1,84
	Antisense	56	3	TGACATAAT	CTACCA	2,93
		45	61	AGTCAAACT	TTGCCA	2,02
P2	Sense	59	39	GTGTAACAT	TTTATA	3,77
	Antisense	38	29	AGCTAACTT	TGGACA	4,09
P3	Sense	69	55	GCTTAAAAT	TTGCAA	3,97
		54	31	TGCTATTTT	TTTCAT	1,35
	Antisense	39	55	TGTTTTGAT	TTGCAA	3,40
		21	24	AAACATGAT	TAGCCA	0,79
P4	Sense	60	39	GGGTAATCT	TTGTTG	5,54
	Antisense	37	60	CCTTATAAG	TTGAAA	4,92
		28	61	AGGTAAGAA	TTGCCA	1,05
V1	Sense	57	40	AGTTAATCT	TTGTTT	4,55
	Antisense	67	25	TGTTATGCT	ATGAAT	2,63
		13	55	TGAAAAGCT	TTGCCG	1,01
V2	Sense	22	60	GAGTCGAAT	TTGAAA	2,36
	Antisense	50	20	AGTTTTAAT	CTGAAT	2,63
V3	Sense	60	33	CAGTACAAT	TTCTCA	3,21
	Antisense	57	25	TGTTATGTT	ATGAAT	3,06
V4	Sense	57	25	AGTTAATCT	TTGTGT	3,87
	Antisense	67	25	TGTTATGCT	ATGAAT	2,51
V5	Sense	60	33	CAGTACAAT	TTCTCA	3,14
	Antisense	57	25	TGTTATGTT	ATGAAT	3,06
V6	Sense	58	7	AATTATGAT	GTCAAA	4,06
	Antisense	57	25	TGTTATGTT	ATGAAT	3,06
V7	Sense	57	40	AGTTAATCT	TTGTTT	4,07
	Antisense	67	25	TGTTATGCT	ATGAAT	2,95
V8	Sense	57	40	AGTTAATCT	TTGTTT	4,45
	Antisense	46	38	ACCTAAGAT	TTGGCA	3,03
V9	Sense	77	21	CGCTAAAAT	TTGAGC	4,20
	Antisense	57	25	TGTTATGTT	ATGAAT	2,96
		7	55	CAGAAAGCT	TTGCCG	0,59
V10	Sense	57	40	AGTTAATCT	TTGTTT	4,66
	Antisense	67	25	TGTTATGCT	ATGAAT	2,70
V11	Sense	58	33	CATTAGAAT	TTCTCA	2,64

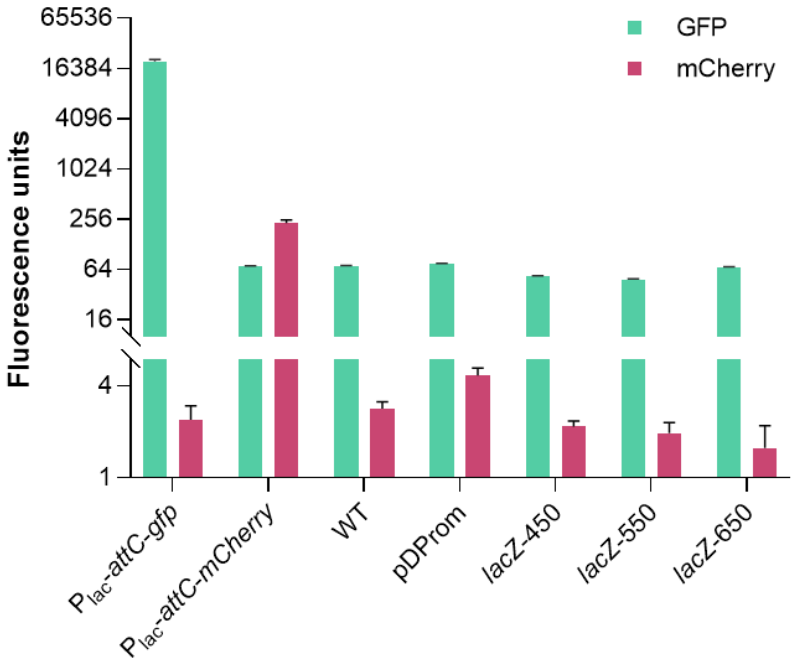
	Antisense	57	25	TGTTATGTT	ATGAAT	3,06
		18	32	AGAAAAGAT	TTGGAA	0,58
V12	Sense	57	25	AGTTAATCT	TTGTGT	3,99
	Antisense	67	25	TGTTATGCT	ATGAAT	2,57
V13	Sense	65	5	ATTTATGAT	CTCAAA	3,35
	Antisense	57	25	TGTTATGTT	ATGAAT	3,71
		21	55	CAAAAAAAT	TTGCCG	0,59
F1	Sense	61	40	ATTTATATT	TTGTTT	9,42
		46	36	TTTTACAGT	TTTAAT	2,63
	Antisense	53	55	ACTTAATAT	TTGAAT	6,49
		76	66	CTGTAAAAT	TTGACA	6,20
F2	Sense	77	47	GAGTATAAT	TTTACA	6,16
		55	31	AACTATTAT	TTTCAT	3,95
	Antisense	44	36	GAGCAAAAT	TTTAAT	4,65
		40	46	TGGTTCAAT	TTCACA	2,81
F3	Sense	76	27	CAGTATAAT	TTCTCG	4,70
		31	11	TTTTAAACG	TTCCTC	2,57
	Antisense	47	52	CGGCAAACT	TTGATG	4,71
		70	17	GAGTAAAAT	ATGCTG	2,41



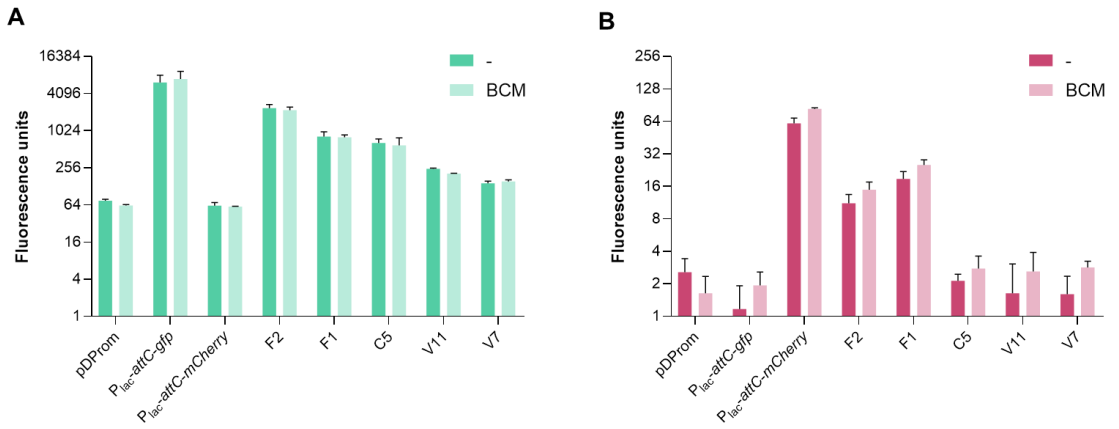
Supplementary Figure S1. General structure of the synthesized gene-less cassettes cloned in pDProm . The gene-less DNA fragment for each *Vibrio* spp. was selected including the conserved recombination site R' (G↓TTRRRY) from the recombination point marked with an arrow (TTRRRY), the gene-less fragment, and the *attC* site containing the binding domains R'', L'', L' and R'. After the GTT of the R' recombination point (vertical arrow), the nucleotides ATGT were added to each fragment (yellow box). ATGT were the most prevalent nucleotides from an aligment of all *attC* sites selected in this study (inset).



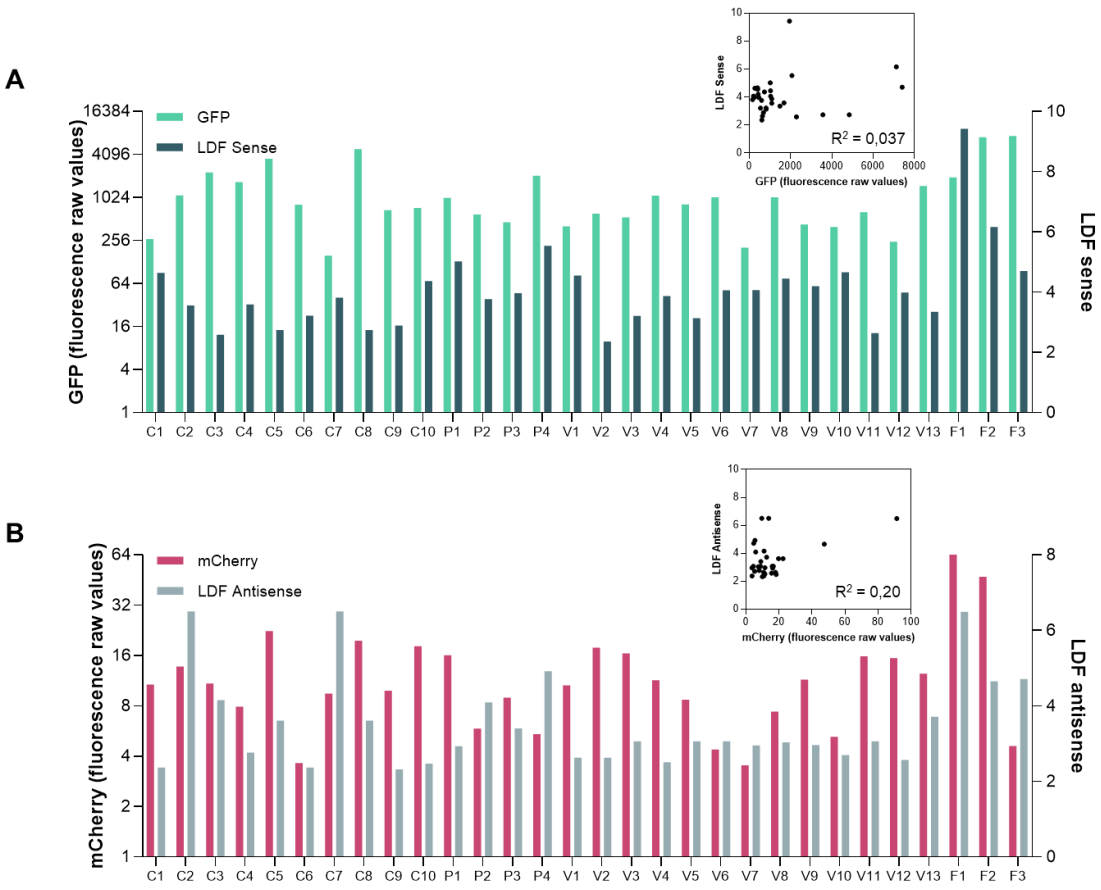
Supplementary Figure S2. Comparison of fluorescence raw values between *V. cholerae* WT and *V. cholerae* carrying the empty pDProm plasmid. The fluorescence raw values of both *gfp* (sense) and *mCherry* (antisense) were measured using flow cytometry in *V. cholerae* WT and *V. cholerae* containing the plasmid pDProm without any insert. Error bars represent standard deviation of fluorescence measurements of three biological replicates with two technical replicates each. Paired t-test was performed by comparing the measures obtained for both strains; ns: not significant.



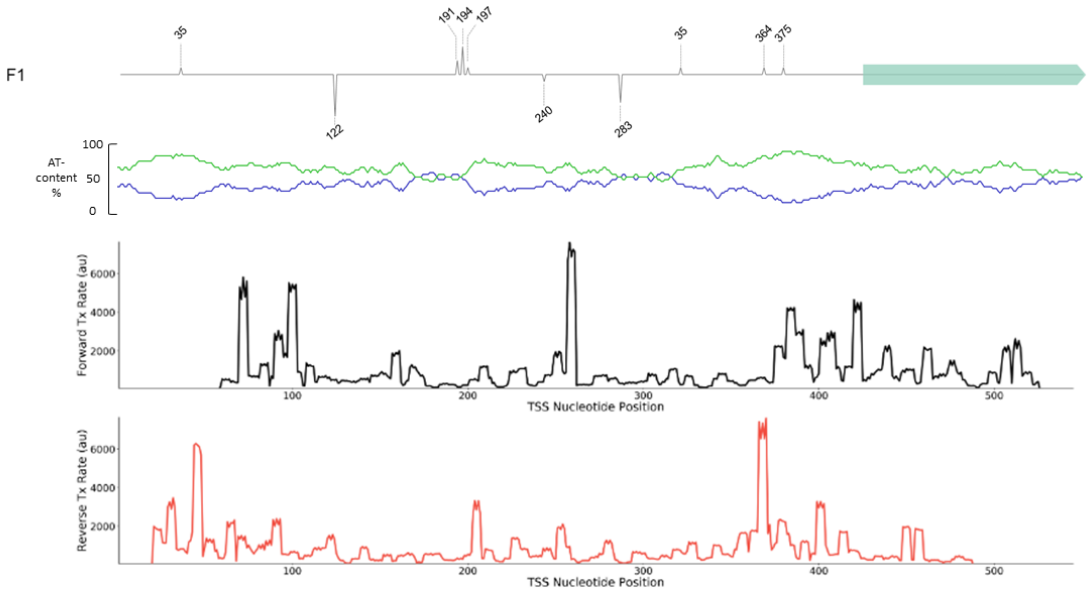
Supplementary Figure S3. Fluorescence raw values of *V. cholerae* with pDProm and control DNA fragments. The fluorescence raw values of both *gfp* (sense) and *mCherry* (antisense) were measured using flow cytometry in *V. cholerae* N16961 strains carrying pDProm with control DNA fragments of different sizes (450-, 550-, and 650-bp) originated from the *lacZ* gene. Fluorescence levels were also measured in *V. cholerae* carrying pDProm-P_{lac}-*attC-gfp*, pDProm-P_{lac}-*attC-mCherry*, the wildtype strain (WT), and the one harboring the empty pDProm. Error bars represent standard deviation of fluorescence measurements of three biological replicates with two technical replicates each.



Supplementary Figure S4. Effect of bicyclomycin (BCM) on fluorescence raw levels of gene-less cassettes. The fluorescence raw values of both (**A**) *gfp* (sense) and (**B**) *mCherry* (antisense) were measured using flow cytometry in *V. cholerae* strains carrying pDProm and derivatives with or without 2h-incubation with bicyclomycin (50 µg/mL). Error bars represent standard deviation of fluorescence measurements of three technical replicates.



Supplementary Figure S5. Predicted promoter strength for the *Vibrionaceae* gene-less cassettes compared with the observed expression. Mean of raw *gfp* fluorescence values (left Y axis) and predicted LDF score of the sense strand by BPROM (right Y axis) of all the selected *Vibrionaceae* cassettes (**A**). Mean of raw *mCherry* fluorescence values (left Y axis) and predicted LDF score of the antisense strand by BPROM (right Y axis) of all the selected *Vibrionaceae* cassettes (**B**). GFP and mCherry fluorescence values do not correlate with the sense and antisense LDF values, respectively (insets: R^2=0,037; R^2=0,20). The fluorescence mean is calculated from measurements of three biological replicates with two technical replicates each. LDF, linear discriminant function.


F1
35
122
191
194
197
240
283
35
364
375
AT-content %
100
50
0
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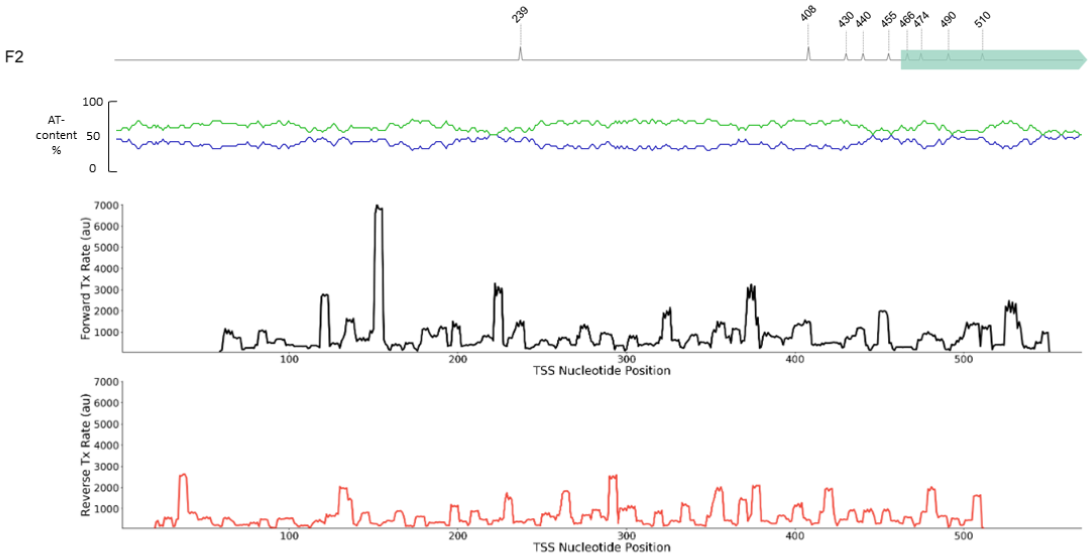
6000
4000
2000
100
200
300
400
500
TSS Nucleotide Position
Reverse Tx Rate (au)
6000
4000
2000
100
200
300
400
500
TSS Nucleotide Position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440
455
466
474
490
510
AT-content %
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50
0
Forward Tx Rate (au)
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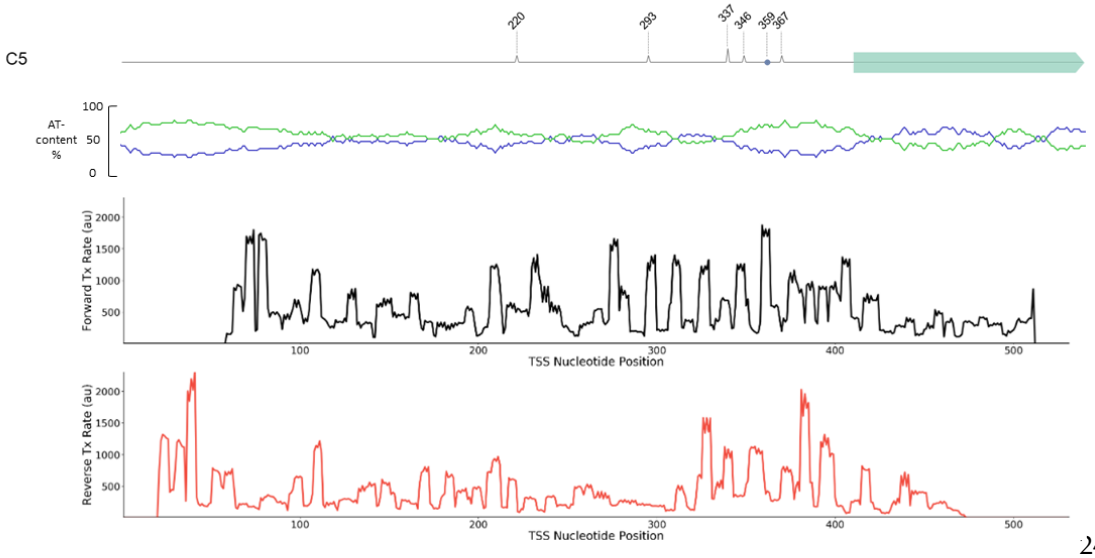
6000
5000
4000
3000
2000
1000
100
200
300
400
500
TSS Nucleotide Position
Reverse Tx Rate (au)
7000
6000
5000
4000
3000
2000
1000
100
200
300
400
500
TSS Nucleotide Position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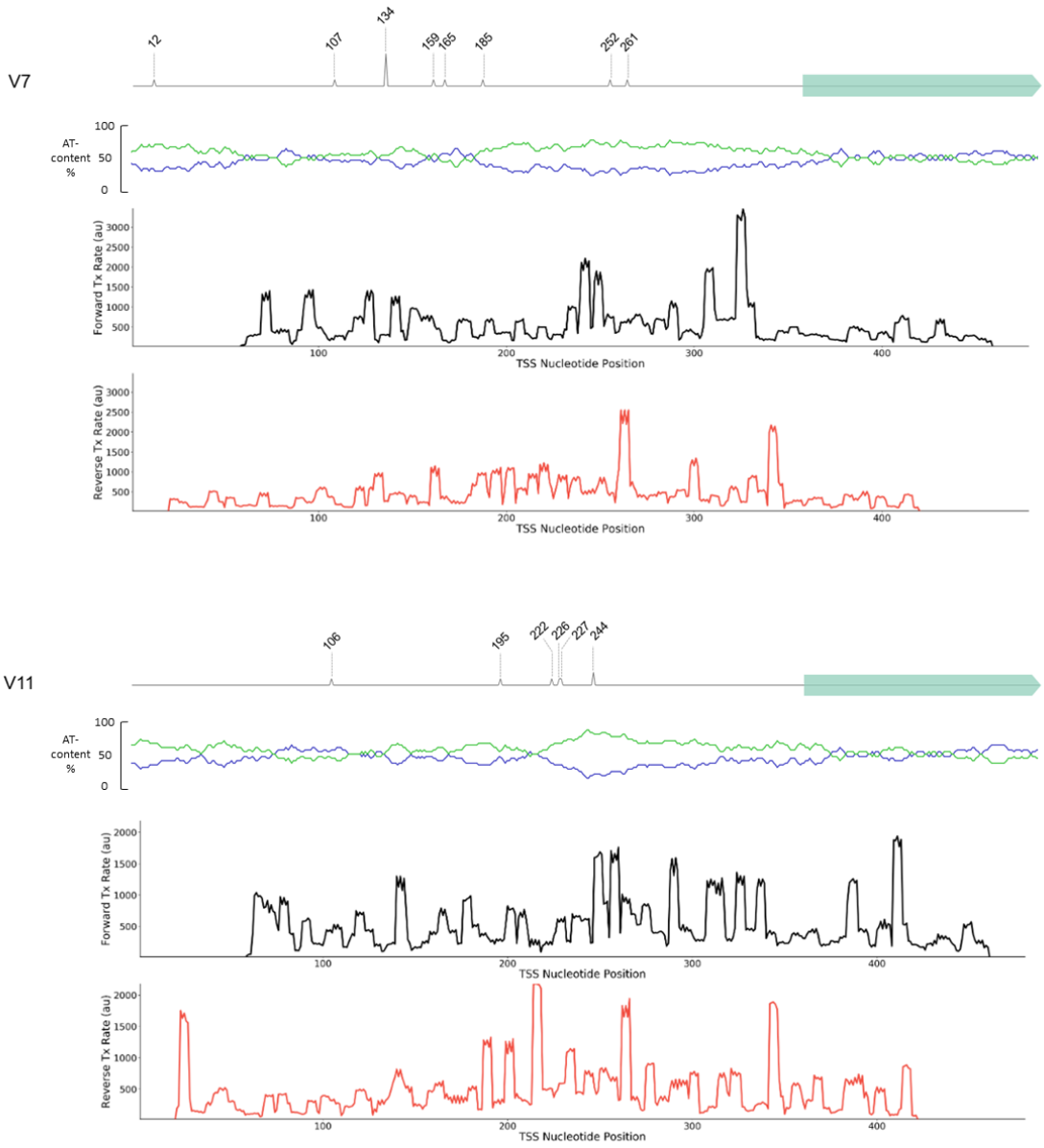
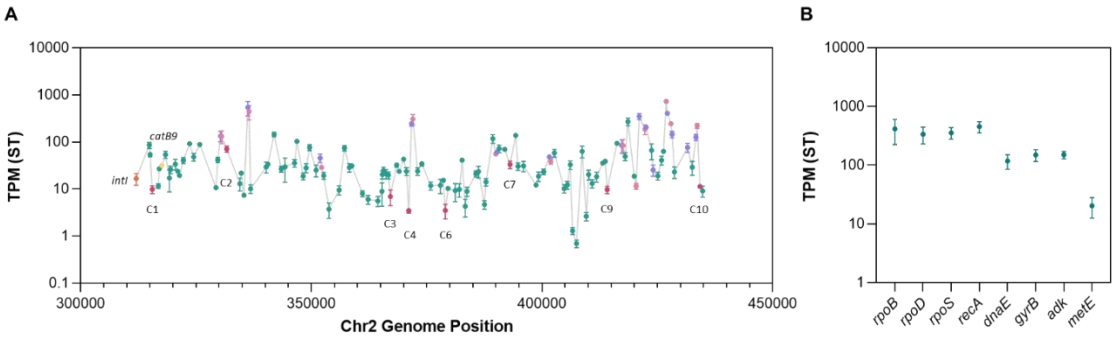
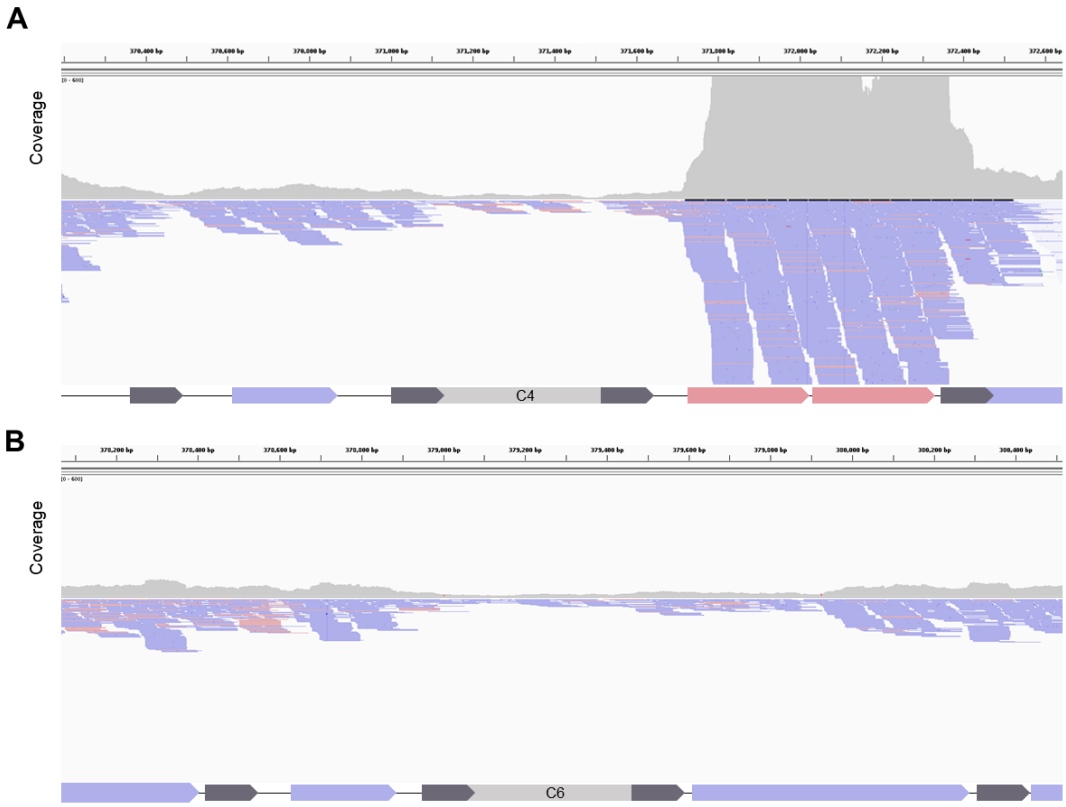
337
346
359
367
AT-content %
100
50
0
Forward Tx Rate (au)
2000
1500
1000
500
100
200
300
400
500
TSS Nucleotide Position
Reverse Tx Rate (au)
2000
1500
1000
500
100
200
300
400
500
TSS Nucleotide Position



Supplementary Figure S6. Comparison of detected transcription start sites *in vitro* and *in silico* in gene-less cassettes. The transcription start sites (TSSs) identified through 5' RACE along the selected cassettes are overlaid with the *in silico* predictions by De Novo DNA software, presented as peaks indicating transcription rates. The experimentally detected TSSs through 5' RACE do not match with those identified by the De Novo DNA software. Graphs illustrating the percentage of AT-content (green curve) and GC-content (blue curve) are also provided for each cassette.



Supplementary Figure S7. Expression levels of *V. cholerae* N16961 superintegron gene cassettes from BioProject PRJNA420494. Expression levels represented as transcripts per kilobase million (TPM) of gene cassettes along the superintegron array were calculated from RNA-seq data available in databases in stationary (ST) growth phase (**A**). TPM values of eight housekeeping genes were used as a reference (**B**). TPM values of genes-less cassettes (magenta), toxin-antitoxin systems (mauve and pink), integrase (orange), and the chloramphenicol resistance gene *catB9* (yellow), are highlighted. Error bars represent the standard deviation of three independent biological replicates.



Supplementary Figure S8. Representation of reads from the RNAseq of *V. cholerae* N16961 superintegron. The number and orientation of reads, and the coverage upstream and downstream gene-less cassettes C4 (**A**) and C6 (**B**) were analyzed by Integrative Genomics Viewer (IGV) software. Blue color designates genes and reads from the plus (sense) strand; red color designates genes and reads from the minus (antisense) strand.