

Supporting S1 Table

Oligonucleotide primers used in the present study¹.

I. Primers used for cloning cytoplasmic parts of all GGDEF, EAL and degenerate GGDEF/EAL domain proteins as well as GGDEF domains alone into pBT and pTRG:

<i>dgcC</i> -pBT-EcoRI-for	5`-GCCGAATTCCTGGCGGAACATAAACGCAGG-3`
<i>dgcC</i> -BglII-rev	5`-GCCAGATCTTCAGGCCGCACTTCGGTGC-3`
<i>dgcC</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTGGCGGAACATAAACGCAGG-3`
<i>dgcE</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTGAGCTAAAACGCACCGAACAGG-3`
<i>dgcE</i> -XhoI-rev	5`-GCCCTCGAGTCAGTTAATCGCGAAATAACTAC-3`
<i>dgcF</i> -pBT-EcoRI-for	5`-GCCGAATTCCTAATGAAGCAAGTTGCGCTG-3`
<i>dgcF</i> -XhoI-rev	5`-GCCCTCGAGTCAGACAACCTCCTCACCG-3`
<i>dgcF</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTAATGAAGCAAGTTGCGCTG-3`
<i>dgcI</i> -pBT-EcoRI-for	5`-GCCGAATTCCTGTGATTAATCGTGGTATTGTG-3`
<i>dgcI</i> -XhoI-rev	5`-GCCCTCGAGTTACTGCCAGCTAATCTGTGC-3`
<i>dgcI</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTGTGATTAATCGTGGTATTGTG-3`
<i>dgcJ</i> -NotI-for	5`-GAAGCGGCCGCTCGGATGCACTCCGTTTATACC-3`
<i>dgcJ</i> -XhoI-rev	5`-GCCCTCGAGTCATGAACGGCTGTTTTTGTCTGC-3`
<i>dgcN</i> -NotI-for	5`-GAAGCGGCCGCTCACAATGGCCTGGTAGAAGCG-3`
<i>dgcN</i> -XhoI-rev	5`-GCCCTCGAGTTATCTCACCAGCTTTTCGGC-3`
<i>dgcO</i> -NotI-for	5`-GAAGCGGCCGCTGAGATGTATTTTAAAAGAATG-3`
<i>dgcO</i> -XhoI-rev	5`-GCCCTCGAGCTAAAGACTGGCTTTCCAGAG-3`
<i>dgcP</i> -pBT-EcoRI-for	5`-GCCGAATTCCTCAGATCAGATTATCGCC-3`
<i>dgcP</i> -XhoI-rev	5`-GCCCTCGAGTCAGGAATGTAGCGCTGG-3`
<i>dgcP</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTTCAGATCAGATTATCGCC-3`
<i>dgcQ</i> -pBT-EcoRI-for	5`-GCCGAATTCCTGTTAGCAACATGTATGTTCTG-3`
<i>dgcQ</i> -XhoI-rev	5`-GCCCTCGAGTTAAGCGTTATCGCTCGGAATACC-3`
<i>dgcQ</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTGTTAGCAACATGTATGTTCTG-3`
<i>dgcT</i> -pBT-EcoRI-for	5`-GCCGAATTCCTAAGAACATTGCACATCGCGATCCC-3`
<i>dgcT</i> -XhoI-rev	5`-GCCCTCGAGTTATGGTGACTCACAAAATTACCC-3`
<i>dgcT</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTAAGAACATTGCACATCGCGATCCC-3`
<i>dgcZ</i> -pBT-EcoRI-for	5`-GCCGAATTCCTATCAAGAAGACAACGGAAATTG-3`
<i>dgcZ</i> -XhoI-rev	5`-GCCCTCGAGTTAAACTCGGTTAATCACATTTG-3`
<i>dgcZ</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTATCAAGAAGACAACGGAAATTG-3`
<i>pdeA</i> -pBT-EcoRI-for	5`-GCCGAATTCACATCGCAGTGAATGGCTTAATCGC-3`
<i>pdeA</i> -XhoI-rev	5`-GCCCTCGAGTTAATCAGCTAATGGCTGCGGGCG-3`
<i>pdeA</i> -pTRG-EcoRI-for	5`-GCCGAATTCACATCGCAGTGAATGGCTTAATCGC-3`
<i>pdeB</i> -pBT-EcoRI-for	5`-GCCGAATTCACGCCGTATTCAGTCACCGCATC-3`
<i>pdeB</i> -XhoI-rev	5`-GCCCTCGAGTCACAAATGTTGCTCGGCCAGCG-3`
<i>pdeB</i> -pTRG-EcoRI-for	5`-GCCGAATTCACGCCGTATTCAGTCACCGCATC-3`
<i>pdeC</i> -pBT-EcoRI-for	5`-GCCGAATTCACACTACGTATTCGACAAAATTTATCTCCC-3`
<i>pdeC</i> -XhoI-rev	5`-GCCCTCGAGTTATTGCCCGCGGTTAACTCCCG-3`

¹ Relevant nucleotides (e.g. restriction sites, mutations introduced or pKD45-specific sequences) labeled in **bold**. All primer sequences are given from 5`- to 3`-end.

<i>pdeC</i> -pTRG-EcoRI-for	5`-GCCGAATTCCTACTACGTATTTCGACAAAACCTATTTATCTCCC-3`
<i>pdeD</i> -pBT-EcoRI-for	5`-GCCGAATTCGCGCTGGCTGGCGACCGCTTACCG-3`
<i>pdeD</i> -XhoI-rev	5`-GCCCTCGAGTTAACGTAACGGCATAATGGG-3`
<i>pdeD</i> -pTRG-EcoRI-for	5`-GCCGAATTCAGGCCTGGCTGGCGACCGCTTACCG-3`
<i>pdeF</i> -pBT-EcoRI-for	5`-GCCGAATTCACGTCAGAGAGCGGTAGTCAGACGC-3`
<i>pdeF</i> -pBT-XhoI-rev	5`-GCCCTCGAGTCAGGCACTTTCGCGAATGGG-3`
<i>pdeF</i> -pTRG-EcoRI-for	5`-GCCGAATTC AACGTCAGAGAGCGGTAGTCAGACGC-3`
<i>pdeG</i> -NotI-for	5`-GAAGCGGCCGCAGATAGATATTTCAATAAAAAGC-3`
<i>pdeG</i> -XhoI-rev	5`-GCCCTCGAGTCACTCAACCACAACCTTACC-3`
<i>pdeI</i> -NotI-for	5`-GAAGCGGCCGCTCGCTGGCGTTTTTGCCTGACTCAACGG-3`
<i>pdeI</i> -XhoI-rev	5`-GCCCTCGAGTACTCTTTTACTAATTTCC-3`
<i>pdeK</i> -pBT-EcoRI-for	5`-GCCGAATTCGCGCATCCCAGCCAAGGAGCTTGTGG-3`
<i>pdeK</i> -XhoI-rev	5`-GCCCTCGAGTACTTTTCTCCAGGTA-3`
<i>pdeK</i> -pTRG-EcoRI-for	5`GCCGAATTCAGGCCATCCCAGCCAAGGAGCTTGTGG-3`
<i>pdeL</i> -NotI-for	5`-GAAGCGGCCGCAAATTCATGTGATTTTCGTG-3`
<i>pdeL</i> -SpeI-rev	5`-CCGACTAGTCTATCAACCACCTGCTTTCATTA-3`
<i>pdeN</i> -pBT-EcoRI-for	5`-GCCGAATTCCTAGCGTACGTATGCGCCCCGGC-3`
<i>pdeN</i> -XhoI-rev	5`-GCCCTCGAGTTACCACTGCGGCGTATACGG-3`
<i>pdeN</i> -pTRG-EcoRI-for	5`-GCCGAATTC CAAGCGTACGTATGCGCCCCGGC-3`
<i>pdeO</i> -NotI-for	5`-GAAGCGGCCGCAAAGCTAACCGATGCGGATAATGCC-3`
<i>pdeO</i> -XhoI-rev	5`-GCCCTCGAGTCAGATTTTCAGCGGTAACACGC-3`
<i>cdgI</i> -pBT-EcoRI-for	5`-GCCGAATTCACAGGAGCTGCAACTCTCCAGC-3`
<i>cdgI</i> -XhoI-rev	5`-GCCCTCGAGTTAAATATGATGAATAATCAC-3`
<i>cdgI</i> -pTRG-EcoRI-for	5`-GCCGAATTC AACAGGAGCTGCAACTCTCCAGC-3`
<i>csrD</i> -pBT-EcoRI-for	5`-GCCGAATTC ACTGGCGGTACGCTGGTTACAACGC-3`
<i>csrD</i> -pBT-XhoI-rev	5`-GCCCTCGAGTTAAACCGAGTATCTTTGTG-3`
<i>csrD</i> -pTRG-EcoRI-for	5`-GCCGAATTC AACTGGCGGTACGCTGGTTACAACGC-3`
<i>rflP</i> -pBT-EcoRI-for	5`-GCCGAATTC AAAGATTTTTTTGGAGAAT-3`
<i>rflP</i> -XhoI-rev	5`-GCCCTCGAGTTATCGCTGAACCAACGTCG-3`
<i>rflP</i> -pTRG-EcoRI-for	5`-GCCGAATTC AAAAGATTTTTTTGGAGAAT-3`
<i>dgcE</i> -3xPAS-XhoI-rev	5`-GCTACTCGAGTTACAGCAGGATACGTTCTG-3`
<i>dgcE</i> -GGDEF-pTRG-EcoRI-for	5`-GTACGAATTC CCTCACGCAAAATGCTGCGCCAG-3`
<i>dgcE</i> -GGDEF-XhoI-rev	5`-GCTACTCGAGATCAAGCGACATCGCCGC-3`
<i>dgcE</i> -EAL-pBT-EcoRI-for	5`-GCCGAATTCAGTTTACGAACCGCAGCAAGC-3`
<i>dgcE</i> -EAL-pTRG-EcoRI-for	5`-GCCGAATTC AAGTTTACGAACCGCAGCAAGC-3`
<i>dgcN</i> -HAMP-XhoI-rev	5`-GCCCTCGAGTTAGTATTTGAAATTATCGCCATC-3`
<i>dgcN</i> -GGDEF-NotI-for	5`-GAAGCGGCCGCTGAGTGGCAGCTTCGTTTACAG-3`
<i>dgcO</i> -GS-XhoI-rev	5`-GCCCTCGAGTATGTTATGGCCCCACGTATCGTT-3`
<i>dgcO</i> -GGDEF-NotI-for	5`-GAAGCGGCCGCTAACAGAAGTCTGCGGGTGAAA-3`
<i>dgcP</i> -GGDEF-pBT-EcoRI-for	5`-GCCGAATTC CATTGCGCAATCGTATACCGAC-3`
<i>dgcP</i> -GGDEF-	5`-GCCGAATTC CCATTGCGCAATCGTATACCGAC-3`

pTRG-EcoRI-for	
<i>dgcZ</i> -GGDEF-pBT-EcoRI-for	5'-GCCGAATTCCTGAATCTTTATTTAATGTTG-3'
<i>dgcZ</i> -GGDEF-pTRG-EcoRI-for	5'-GCCGAATTCCTGAATCTTTATTTAATGTTG-3'
<i>pdeA</i> -GGDEF-XhoI-rev	5'-GCCCTCGAGTTAATTGTTCCAGTGAATTTGCCG-3'
<i>pdeF</i> -GGDEF-XhoI-rev	5'-GCCCTCGAGTTATAGTCGATTCATCGCGACTTT-3'
<i>pdeK</i> -GGDEF-XhoI-rev	5'-GCCCTCGAGTCAGTCCCAACTGCCATCCGG-3'
<i>pdeO</i> -GGDEF-NotI-for	5'-TTTGCGGCCGCATCTCCCGTGGTGTATCTCATC-3'
<i>pdeO</i> -GGDEF-XhoI-rev	5'-GCCCTCGAGTTACTCTTTTACCATTTCGTT-3'
<i>pdeR</i> -PAS-XhoI-rev	5'-GCTACTCGAGGTGATCGATTAATCCTGC-3'
<i>pdeR</i> -GGDEF-pTRG-EcoRI-for	5'-GCCGAATTCAGCGCAATAACCGTGTATTTTTTCG-3'
<i>pdeR</i> -GGDEF-XhoI-rev	5'-GCTACTCGAGCCAGGTGATTTTCGGTTGATAGTGAATA-3'
<i>pdeR</i> -EAL-pTRG-EcoRI-for	5'-GCCGAATTCAGCGTCACGCCGACACAGCAATG-3'
<i>csrD</i> -GGDEF-XhoI-rev	5'-GCCCTCGAGTTAACGCCAGCGAACATTACCGCG-3'
pBT-test-for	5'-TCCGTTGTGGGGAAAGTTATC-3'
pBT-test-rev	5'-GGGTAGCCAGCAGCATCC-3'
pTRG-test-for	5'-TGGCTGAACAACCTGGAAGCT-3'
pTRG-test-rev	5'-AATCGTCGCCCCCATAA-3'

II. Primers used for C-terminal 3xFLAG-tagging:

<i>bluF</i> -d-H1P1(FLAG)	5'-TTGAATGGTATCCCTTCCATAGCGTGGCCAGAGAAAAA GACTACAAAGACCATGACGG-3'
<i>bluF</i> -u-H2P2(FLAG)	5'-ATGATTTACTGAAATCATGTGAAAGAATGTGCTGAAAATTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>cdgI</i> -d-H1P1(FLAG)	5'-GAAAAGCGAGGGGGCAACAAAGTGATTATTCATCATATT GACTACAAAGACCATGACGG-3'
<i>cdgI</i> -u-H2P2(FLAG)	5'-AAAAGCCACGCAAAAAGCATGGCTCTGAATATTTTTGCACTTA CATATGAATATCCTCCTTAG-3'
<i>csrD</i> -d-H1P1(FLAG)	5'-TGATACTAACGTGAAAAATATTCACAAAGATACTCGGTT GACTACAAAGACCATGACGG-3'
<i>csrD</i> -u-H2P2(FLAG)	5'-CGCATTATTCTACGTGAAAACGGATTAACGGCAGGTTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcC</i> -d-H1P1(FLAG)	5'-AGCAAAGAAAGCCGGACGTAACCGCACCGAAGTGGCGGCC GACTACAAAGACCATGACGG-3'
<i>dgcC</i> -u-H2P2(FLAG)	5'-GAAAACTCAGCAAATCCTGATGACTTTGCGCCGACGTCA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcE</i> -d-H1P1(FLAG)	5'-GCTGGATTTGCTGGTGAATAGTAGTTATTTGCGGATTAAC GACTACAAAGACCATGACGG-3'
<i>dgcE</i> -u-H2P2(FLAG)	5'-CGCGTTAGCGTCGCATCAGGCGATGGGGAAGCACGCCTCA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcF</i> -d-H1P1(FLAG)	5'-CAACCGTACCAGCACTATGCGTTACGGTGAGGAAGTTGTC GACTACAAAGACCATGACGG-3'
<i>dgcF</i> -u-H2P2(FLAG)	5'-CACATTGCATTCAAATCGCGCGTAATGAATAAAGATGTCA CATATGAATATCCTCCTTAG-3'
<i>dgcI</i> -d-H1P1(FLAG)	5'-CAGAAACCCATGCCATTCTCCGCTGGGATAAAAGTGAAAATTA GACTACAAAGACCATGACGG-3'
<i>dgcI</i> -u-H2P2(FLAG)	5'-GTACGAACTTATTGATTCTGGACATACGTAAACTACTCTTTTAC CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcJ</i> -d-H1P1(FLAG)	5'-GATGAGCGTTTATATGTCAATAAGCAGAACAAAAACAGCCGTTCA

	GACTACAAAGACCATGACGG-3'
<i>dgcJ</i> -u-H2P2(FLAG)	5'-CATTTACGCTCCTGAGATTACAAGCAAACAACACAGAAGGTTA TCACCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcM</i> -d-H1P1(FLAG)	5'-TCGGGCGAAAAATGATGGACGCAACCGCGTGCTGGCGGCA GACTACAAAGACCATGACGG-3'
<i>dgcM</i> -u-H2P2(FLAG)	5'-CTAAGCGCAGTCGTTGATCTCGAGACGCATCCGCGGCTTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcN</i> -d-H1P1(FLAG)	5'-ATATGTATCAGGCCAACACCAGCGTGCCGAAAAGCTGGTGAGA GACTACAAAGACCATGACGG-3'
<i>dgcN</i> -u-H2P2(FLAG)	5'-GGGGTGCTACCAGGTGCTTATCATATCGATATATCCTTGTTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcO</i> -d-H1P1(FLAG)	5'-ACGAGGTAGAAACCGTGTTGAACTCTGGAAAGCCAGTCTT GACTACAAAGACCATGACGG-3'
<i>dgcO</i> -u-H2P2(FLAG)	5'-CGGTTAGCTTCATGATTACCTCTGCATCCTGGCGCATCTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcP</i> -d-H1P1(FLAG)	5'-ACAGAAAACACCTTTTGTGCGCATCCAGCGCTACATTCC GACTACAAAGACCATGACGG-3'
<i>dgcP</i> -u-H2P2(FLAG)	5'-CGCATGTTATCACCAATCAAAGGATGTGAATACGCCTCA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcQ</i> -d-H1P1(FLAG)	5'-TAAACAGGCTGGGCGTAATCGGGTATTTCGCGAGCGATAAC GACTACAAAGACCATGACGG-3'
<i>dgcQ</i> -u-H2P2(FLAG)	5'-GGCGTGAAGGGCTGGACCATTTTTTCTCCGCCCGTTAAGC CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcT</i> -d-H1P1(FLAG)	5'-TAATAAGGTGGTTGTGAGGGATGTGGTGAATTTTTGTGAGTCACCA GACTACAAAGACCATGACGG-3'
<i>dgcT</i> -u-H2P2(FLAG)	5'-GGCCTGTGTCCATATTACGTGGGTAGGATCAAATGCCGCTTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>dgcZ</i> -d-H1P1(FLAG)	5'-AGCAAACCGGAAGAAATCGCTGCATGTTTATTGACGAACAAAAT GTGGACTACAAAGACCATGACGG-3'
<i>dgcZ</i> -u-H2P2(FLAG)	5'-CATCAGTTTTCTCAATGAATGTTAAACGGAGCTTAAACTCGGTAAAT CCTTAGTTCCTATTCCGAAGTTC-3'
<i>pdeA</i> -d-H1P1(FLAG)	5'-GCAATATCTGCAAGGGTATTTGATTGGTCGCCCGCAGCCATTAGCT GATGACTACAAAGACCATGACGG-3'
<i>pdeA</i> -u-H2P2(FLAG)	5'-AAGTTAGCGCTTATGGGATAATTCCCCGGTTTTTTTACGCCTGTTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>pdeB</i> -d-H1P1(FLAG)	5'-GGCATTACCGAAAGAAGATTTCTTACGCTGGGCCGAGCAACATTTG GACTACAAAGACCATGACGG-3'
<i>pdeB</i> -u-H2P2(FLAG)	5'-GGTAGCGTGACGGGCTGTGCGGCGTGCCGTCAGCCAAAATTC CCTTAGTTCCTATTCCGAAGTTC-3'
<i>pdeC</i> -d-H1P1(FLAG)	5'-GCAATGGATGGAGCAATTACCCGCGCGGGAGTTAACGCGCGGG CAAGACTACAAAGACCATGACGG-3'
<i>pdeC</i> -u-H2P2(FLAG)	5'-CAGTTTGATCGCACTCCCAGCGATTATCGCCACCGCCTGTAATTTTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>pdeD</i> -d-H1P1(FLAG)	5'-CCGGCATAATGGACATATCAGCCCATTATGCCGTTACGT GACTACAAAGACCATGACGG-3'
<i>pdeD</i> -u-H2P2(FLAG)	5'-TAAAGAGCAACCGGCGCACGATGAAGATGAGTAAGCGTTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>pdeF</i> -d-H1P1(FLAG)	5'-GTTAATTGATACGCTGAATGAAATCGAACCCATTTCGCGAAAGTGCC GACTACAAAGACCATGACGG-3'
<i>pdeF</i> -u-H2P2(FLAG)	5'-TACTTTGCGGGCCGACGAGAAATGTGCGCCCGCATTATTCA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>pdeG</i> -d-H1P1(FLAG)	5'-AATTATCCTTTCTAAACCGAAGGTGAAGGTTGTGGTTGAG GACTACAAAGACCATGACGGTG-3'
<i>pdeG</i> -u-H2P2(FLAG)	5'-TATAATTACACCGCACTATGGCCTTACTGATCAATTTTCA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>pdeH</i> -d-H1P1(FLAG)	5'-GGCACCGATAGAAACGCTGAATACGGCGGTTCTGGCGCTA GACTACAAAGACCATGACGG-3'
<i>pdeH</i> -u-H2P2(FLAG)	5'-CCTAAAGATAGTCCAGCCAGGCGGAAAATGAGGCAGCTTA CCTTAGTTCCTATTCCGAAGTTC-3'
<i>pdeI</i> -d-H1P1(FLAG)	5'-CAGAAACCCATGCCATTCTCCGCTGGGATAAAAGTGGAAAATTA

	GACTACAAAGACCATGACGG-3'
<i>pdeI</i> -u-H2P2(FLAG)	5'-GTACGAACTTATTGATTCTGGACATACGTAAACTACTCTTTTAC CCTTAGTTCCTATTCCGAAGTCC-3'
<i>pdeK</i> -d-H1P1(FLAG)	5'-CCCTATTGAAATCTTCGAAGAGAGTTACCTGGAAGAAAAG GACTACAAAGACCATGACGG-3'
<i>pdeK</i> -u-H2P2(FLAG)	5'-CAGCACTTTTTAAAGTTTTGTAATCAGTTTGGGGTAGCTA CCTTAGTTCCTATTCCGAAGTCC-3'
<i>pdeL</i> -d-H1P1(FLAG)	5'-TAATAAATTTATCTCTGAATGGGTAATGAAAGCAGGTGGT GACTACAAAGACCATGACGG-3'
<i>pdeL</i> -u-H2P2(FLAG)	5'-CCAACCTCCCGATGCGCTGTGAATAGCGGTTTACATCA CATATGAATATCCTCCTTAG-3'
<i>pdeN</i> -d-H1P1(FLAG)	5'-TTACCGCTGGACGATTTTGTTCGCTGGCTAAAGAAACCGTATACG GACTACAAAGACCATGACGG-3'
<i>pdeN</i> -u-H2P2(FLAG)	5'-CCGGCATGCTTTCCTACTATGAATAATAAGGGACGTAAGCACACCTTA CCACTGCGGCCTTAGTTCCTATTCCGAAGTCC-3'
<i>pdeO</i> -d-H1P1(FLAG)	5'-AATTCCAGGCTGGATGAGCAGCGTGTACCCTGAAAATC GACTACAAAGACCATGACGG-3'
<i>pdeO</i> -u-H2P2(FLAG)	5'-TAAATGAAAACCCGCGAGTGC GGCGAGAGGAATTTGTCA CCTTAGTTCCTATTCCGAAGTCC-3'
<i>rflP</i> -d-H1P1(FLAG)	5'-GCCTGCCGTTCCCATAAATCAGATAACGACGTTGGTTCAG GACTACAAAGACCATGACGG-3'
<i>rflP</i> -u-H2P2(FLAG)	5'-GTTACTCTCGTCTTAAACACCAGCAAACAGAAGGGTTATCG CCTTAGTTCCTATTCCGAAGTCC-3'

III. Primers used for cloning *pdeH-3xFLAG* and *pdeL-3xFLAG* into pCAB18:

<i>pdeH</i> -EcoRI-for	5'-GGCCCGGAATTC AAGGAGGACTGAGATGATAAGGCAGGTTATCC-3'
Flag-HindIII-rev	5'-GGCGCCGAAGCTTCTATTTATCGTCGTCATCTTTG -3'
<i>pdeL</i> -d-(-55) <i>Xma</i> I	5'-GGAATCCCCGGGTAATCACTCATACTGAAC
<i>pdeL</i> -u-1413	5'-GCACGGGCAGGAGTCAATTCTGGTG-3'

IV. Primers used for cloning the cytoplasmic domain of CdgI on pQE30-Xa:

<i>yeal</i> -960-forward-SacI	5'-CAGGAGCTCCA ACTCTCCAGC-3'
<i>yeal</i> -reverse-XmaI	5'-GATCCCGGGTTAAATATGATGAATAATCACTTTG-3'

V. Primers used for generating chromosomal knockout mutations by one-step inactivation:

<i>pdeL</i> -d-(-552)- <i>H1P1</i>	5'-GAATGGATTTCAGTCTTAATGAGTGGTTTTTAAGGGACAGGCATAGGT GTAGGCTGGAGCTGCTTC-3'
<i>pdeL</i> -u-1116- <i>H2P2</i>	5'-CCGATGCGCTGTGAATAGCGGTTTACATCAACCACCTGCTTTCATCAT ATGAATATCCTCCTTAG-3'