

Supplementary TABLE 1: Primer sequences used in this study.

Restriction sites incorporated in the primers are underlined.

| No. | Primer name | Sequence (5' → 3') ^a | Target DNA region |
|-----|-------------|---|-------------------|
| 1 | BG2405 | GCGCG <u>TCatg</u> <u>aaagc</u> attaa caaaaacaaa tccag | <i>CBEI_0223</i> |
| 2 | BG2524 | GCGCG <u>CTCGA</u> <u>Gagat</u> cttat tactactttt aattc | <i>CBEI_0223</i> |
| 3 | BG2413 | GCGCG <u>TCatg</u> <u>aaaac</u> aaaag tattgttaat taaagc | <i>CBEI_0685</i> |
| 4 | BG2527 | GCGCG <u>CTCGA</u> <u>Gatt</u> attaaat atctttaaga cttac | <i>CBEI_0685</i> |
| 5 | BG2203 | GCGCG <u>TCatg</u> <u>aaagc</u> agcat tatggtatgc | <i>CBEI_1464</i> |
| 6 | BG2204 | GCGCG <u>CTCGA</u> <u>Gagatt</u> taga tacaagttct ttg | <i>CBEI_1464</i> |
| 7 | BG2411 | GCGCG <u>CATat</u> <u>gatt</u> acaaca attcaaaatg agaaag | <i>CBEI_2243</i> |
| 8 | BG2528 | GCGCG <u>CTCGA</u> <u>Gcaca</u> actgt aagcacg | <i>CBEI_2243</i> |
| 9 | BG2415 | GCGCG <u>ATTAa</u> <u>tgga</u> tgtgttt tttatgaaac taatg | <i>CBEI_3864</i> |
| 10 | BG2529 | GCGCG <u>CTCGA</u> <u>Gttc</u> catagt taaaacagct c | <i>CBEI_3864</i> |
| 11 | BG2407 | GCGCG <u>ATTAa</u> <u>tgcg</u> tgcttt aaaatataat ggg | <i>CBEI_3890</i> |
| 12 | BG2408 | GCGCG <u>CTCGA</u> <u>Gttata</u> acttttgcattcttttc | <i>CBEI_3890</i> |

Supplementary TABLE 2: Bacterial strains and plasmids used in this study

| | Relevant genotype | Remarks | Source |
|--|--|--|--|
| <u>Bacterial strains</u> | | | |
| <i>E. coli</i> NEB 5-alpha F' I ^q | proA ⁺ B ⁺ lacI ^q Δ(lacZ)M15 recA1 | Cloning strain | Invitrogen / New England Biolabs |
| <i>E. coli</i> BL21 (λDE3) | F ⁻ ompT gal dcm lon hsdS _B (r _B ⁻ m _B ⁻) λ(DE3) | Expression strain | Merck Millipore |
| <u>Plasmids</u> | | | |
| pWUR463 | pET24d; P _{T7} -CBEI_0223 | Expression plasmid of <i>CBEI_0223</i> with His-tag under control of a T7 promoter | This study |
| pWUR461 | pET24d; P _{T7} -CBEI_0685 | Idem for <i>CBEI_0685</i> | This study |
| pWUR450 | pET24d; P _{T7} -CBEI_1464 | Idem for <i>CBEI_1464</i> (<i>Cb-acr</i>) | This study |
| pWUR464 | pET26b; P _{T7} -CBEI_2243 | Idem for <i>CBEI_2243</i> | This study |
| pWUR462 | pET26b; P _{T7} -CBEI_3864 | Idem for <i>CBEI_3864</i> | This study |
| pWUR452 | pET26b; P _{T7} -CBEI_3890 | Idem for <i>CBEI_3890</i> , without His-tag | This study |