**TABLE S2. List of primers used in this study**

|  |  |  |
| --- | --- | --- |
| Primer | DNA sequence *a* | Restriction site |
| porA-F1 | CGCGGATCCGATGTCAGCCTATACGGCGAAATC | BamHI |
| porA-R | ACGCGTCGACTTAGAATTTGTGGCGCAAACCGACG | SalI |
| porA-R1 | ACGCGTCGACATCGTAGCGTACGGAAACCG | SalI |
| porA-R2 | ACGCGTCGACGCTGCCGATCAAGAACAA | SalI |
| porA-R3 | ACGCGTCGACGTCGAAACCATGGGCATAGC | SalI |
| porA-F2 | GCGAGATCTCTTGAGCAAGACGTATCCGTTG | BglII |
| porA-R4 | GCGAGATCTGCCGTATAGGCTGACATC | BglII |
| porA-F3 | GCGAGATCTGTGGCTTCGCAATTGGGTATT | BglII |
| porA-F4 | GCGAGATCTGCTTGAGCAAGACGTATCCG | BglII |
| porA-R5 | GGCAGATCTGTAACTTTTACCTGACCGCTCG | BglII |
| porA-R6 | GCGAGATCTCGTACCGAATTCGCCTGC | BglII |
| porA-F5 | GCGAGATCTGCGAGACACGCCAATGTCG | BglII |
| porA-R7 | CGCAGATCTGCGTACGGAAACCGGCATGTCG | BglII |
| P2F1 | CGCGGATCCTATAACAACGAAGGGACTAACG | BamHI |
| P2R1 | CGCGTCGACCAAATGATTAGAAGTAAACGC | SalI |
| P2∆1-4I\_F | CGCGGATCCAACTACAAATATAACGAAGCTGACG | BamHI |
| P2∆1-4I\_R | GTCACTATTGTTGAGAACGCC | Not present |
| P2∆5-8I\_F | GTGTCTCTAGATAGTGGCTATGC | Not present |
| P2∆5-8I\_R | CGCGTCGACGTAGTTAGTTCTACCATAAGCAATTTTTGC | SalI |
| P2∆L1I\_F | CGCAGATCTGGTTCACGTTTCCACATTAAAGC | BglII |
| P2∆L1I\_R | CGCAGATCTACTTTGTTCTGCGATAATGCTTAAAC | BglII |
| P2∆L2I\_F | CGCAGATCTGGTGATATTACAAGCAAATATGCTTATG | BglII |
| P2∆L2I\_R | CGCAGATCTTTTTGTAACAAAACGAGTTTCTAAATAA | BglII |
| P2∆L3I\_F | CGCAGATCTGGTAATACCGTTGGCTATACTTTT | BglII |
| P2∆L3I\_R | CGCAGATCTCGCACGACCAAGTTTTACTTCAC | BglII |
| P2∆L4I\_F | CGCAGATCTATAGGTGAAATCAATAATGGAATTCAAG | BglII |
| P2∆L4I\_R | CGCAGATCTCTTTTGTGCTAATAAATAATTAGCGCC | BglII |
| L4-F1 | GCGAGATCTGCTGTTGTCGGCAAGCCCGGATCG | BglII |
| L4-R1 | GCGGGATCCAGCCGGCGTATAGGCGGACTTGCTG | BamHI |
| L4-F2 | GCGAGATCTGCTTTGTTTTTGACGGCTCGC | BglII |
| L4-R2 | GCGAGATCTATCCGCTTCACCGCCCCG  | BglII |
| F1 | CACGCTTTATAGTGATAGCC | Not present |
| mP2\_R | GACCAAACTAGCGTTGAAACC | Not present |
| OmgF | GCGGATCCAAGTGCGGTCAAGCAAGGCGAATCGAAAGAT | BamHI |
| OmgR | GCGGATCCTCTAACAAATGATTAGAAGTAAACGC | BamHI |
| MegaR | GCAAGTGTTTTTTTCATAATTTGTATTCC | Not present |
| ∆P2F | CGCAGATCTGCGTTTACTTCTAATCATTTG | BglII |
| P2FR | CGCGCGGCCGCGCGGTAAAAATTATGCGTGAA | NotI |

*a* All primers were designed from the *N. meningitidis* MC58 or *H. influenzae* Rd KW20 genome sequences. Underlined sequences identify restriction enzyme sites.