**Table S1.** Nucleotide changes in the *H. pylori* SS1 mutant resistant to EZA.

| Position | Type   | Reference | Allele | Locus tag   | Amino acid substitution | Gene product                                                                 |
|----------|--------|-----------|--------|-------------|-------------------------|------------------------------------------------------------------------------|
| 309374   | Deletion | G        | -      | HPYLSS1_00289 | Ala250fs<sup>a</sup>      | dipeptide transport system permease protein DppC                              |
| 1013480  | Deletion | A        | -      | HPYLSS1_00787 | Lys212fs                | flagellar protein export apparatus component FliO                              |
| 592353   | Substitution | T | C    | HPYLSS1_00577 | Val464Ala               | ribonuclease Y                                                                |
| 1169965  | Substitution | C | A    | HPYLSS1_01099 | Gly311Val               | valyl-tRNA synthetase                                                         |
| 1235634  | Substitution | G | T    | HPYLSS1_01157 | Ala302Ser               | O-antigen flippase Wzk                                                        |
| 1415084  | Deletion   | GA       | -      | HPYLSS1_01343 | Glu263fs                | phosphoethanolamine transferase                                                |
| 1004529  | Insertion  | -        | TG     | HPYLSS1_00797 | His2fs                  | haloacid dehalogenase-like hydrolase                                           |
| 1030442  | Substitution | G | T    | HPYLSS1_00769 | Gly45Trp                | hypothetical protein                                                          |
| 1306813  | Substitution | A | C    | HPYLSS1_01230 | -                       | hypothetical protein                                                          |

<sup>a</sup>Position of nucleotides are specified with reference to the published *H. pylori* SS1 genome (GenBank ID: CP009259)

<sup>b</sup>fs, frameshift mutation