## Supplementary file2

Table S1 The distribution of gene mutations associated with rifampicin-resistance

| rpoB mutation (codon position) | rpoC mutation (codon position) | No. of isolates with resistant phenotype |
|---------------------------------|---------------------------------|----------------------------------------|
| Asp435Tyr                       |                                 | 2                                      |
| Asp435Val                       |                                 | 2                                      |
| Glu761Asp                       |                                 | 1                                      |
| His445Arg                       |                                 | 3                                      |
| His445Asp                       |                                 | 5                                      |
| His445Cys                       |                                 | 1                                      |
| His445Leu                       |                                 | 8                                      |
| His445Tyr                       |                                 | 8                                      |
| Ile491Phe                       |                                 | 1                                      |
| Leu452Pro                       |                                 | 6                                      |
| Leu452Pro                       | Ile885Val                       | 1                                      |
| Ser441Leu                       |                                 | 2                                      |
| **Ser450Leu**                   |                                 | **56**                                 |
| Ser450Leu                       | Gly332Arg                       | 1                                      |
| Ser450Phe                       |                                 | 1                                      |
| Ser450Trp                       |                                 | 3                                      |
| Val170Phe                       |                                 | 1                                      |
| Leu430Pro                       |                                 | 1                                      |
| Asp435Gly+Leu430Arg             |                                 | 1                                      |
| His445Arg+Gln429His             |                                 | 1                                      |
| His445Gln+Leu430Pro             |                                 | 1                                      |
| His445Tyr+Asp435Phe             |                                 | 5                                      |
| His445Tyr+Asp435Val             |                                 | 1                                      |
| Leu430Pro+Asp435Gly             |                                 | 1                                      |
| Leu443Trp+Thr444Pro             |                                 | 2                                      |
| Ser431Gly+Leu430Pro             |                                 | 3                                      |
| **WT**                          | **WT**                          | **6**                                  |

Total 124

Note: WT indicates wild type.
Table S2 The distribution of gene mutations associated with isoniazid resistance

|  | katG mutation (codon position) | ahpC mutation (codon position) | fabG1 mutation (codon position) | inhA mutation (codon position) | No. of isolates with resistant phenotype | No. of isolates with susceptible phenotype |
|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------------|------------------------------------------|
|  | g-48a                         | 3                             | 0                             | 0                             | 0                                        | 0                                        |
|  | c-52t                         | 1                             | 0                             | 0                             | 0                                        | 0                                        |
|  | c-52t                         | 1                             | 0                             | 0                             | 0                                        | 0                                        |
|  | c-54t                         | 1                             | 0                             | 0                             | 0                                        | 0                                        |
|  | c-81t                         | 1                             | 0                             | 0                             | 0                                        | 0                                        |
|  | c-81t+g-74a                   | 1                             | 0                             | 0                             | 0                                        | 0                                        |
|  | Asp735Ala                     | 15t                           | 5                             | 0                             | 0                                        | 0                                        |
|  | Tyr155Cys                     | c-15t                         | 1                             | 0                             | 0                                        | 0                                        |
|  | 146_147insTGCA                | c-81t                         | 1                             | 0                             | 0                                        | 0                                        |
|  | 1856_1857insT                 | 1                             | 0                             | 0                             | 0                                        | 0                                        |
|  | Asn138Asp                     | 1                             | 0                             | 0                             | 0                                        | 0                                        |
|  | Asp94Gly                      | 2                             | 0                             | 0                             | 0                                        | 0                                        |
|  | Ser315Asn                     | 10                            | 0                             | 0                             | 0                                        | 0                                        |
|  | Ser315Thr                     | 58                            | 0                             | 0                             | 0                                        | 0                                        |
|  | Ser315Thr                     | c-15t                         | 1                             | 0                             | 0                                        | 0                                        |
|  | Val1Ala                       | 1                             | 0                             | 0                             | 0                                        | 0                                        |
|  | Ty155Cys                      | c-15t                         | 2                             | 0                             | 0                                        | 0                                        |
|  | WT                            | 10                            | 21                            | 10                            | 21                                       | 10                                       |

Total 103 21

Note: WT indicates wild type.
Table S3 The distribution of gene mutations associated with pyrazinamide-resistance

| pncA mutation (codon position) | No. of isolates with resistant phenotype | No. of isolates with susceptible phenotype |
|-------------------------------|----------------------------------------|------------------------------------------|
| A-11G                         | 1                                      | 0                                        |
| A-11G+Thr47Pro                | 1                                      | 0                                        |
| 106_106del                    | 0                                      | 1                                        |
| 116_116del                    | 1                                      | 0                                        |
| 177_178insC                   | 1                                      | 0                                        |
| 193_202del                    | 1                                      | 0                                        |
| 281_282insT                   | 1                                      | 0                                        |
| 314_315insG+Tyr41*            | 0                                      | 1                                        |
| 355_355del                    | 3                                      | 0                                        |
| 391_392insG                   | 1                                      | 0                                        |
| 391_392insGG                  | 0                                      | 2                                        |
| 405_405del                    | 1                                      | 0                                        |
| 407_408insA                   | 1                                      | 0                                        |
| 417_418insG                   | 2                                      | 0                                        |
| Chromosome:g.2288682_2288719del | 1                                      | 0                                        |
| Chromosome:g.2288682_2288841del | 0                                      | 1                                        |
| Chromosome:g.2288682_2288882del | 1                                      | 0                                        |
| Ala146Thr                     | 1                                      | 0                                        |
| Ala46Val                      | 1                                      | 0                                        |
| Cys14Trp                      | 1                                      | 0                                        |
| Ile6Thr                       | 1                                      | 0                                        |
| Leu85Arg                      | 2                                      | 0                                        |
| Phe94Leu                      | 1                                      | 0                                        |
| Thr135Pro                     | 1                                      | 0                                        |
| Thr142Ala                     | 1                                      | 0                                        |
| Thr76Ile                      | 1                                      | 0                                        |
| Thr76Pro                      | 1                                      | 0                                        |
| Val130Ala                     | 0                                      | 1                                        |
| Val139Ala                     | 1                                      | 0                                        |
| Val155Ala                     | 0                                      | 1                                        |
| Val7Gly                       | 2                                      | 0                                        |
| WT                            | 8                                      | 79                                       |

Total: 38 86

Note: WT indicates wild type; * indicates stop codon.
**Table S4** The distribution of gene mutations associated with ethambutol-resistance

| embA mutation (codon position) | embB mutation (codon position) | No. of isolates with resistant phenotype | No. of isolates with susceptible phenotype |
|--------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| c-12t                          | Tyr319Cys                      | 1                                      | 0                                        |
| c-16g                          |                                | 0                                      | 1                                        |
| c-16t                          |                                | 0                                      | 1                                        |
| Asp1024Asn                     |                                | 0                                      | 1                                        |
| Gln497Arg                      |                                | 4                                      | 1                                        |
| Gly406Ala                      |                                | 1                                      | 0                                        |
| Gly406Asp                      |                                | 1                                      | 3                                        |
| Gly406Ser                      |                                | 0                                      | 2                                        |
| Met306lle                      |                                | 6                                      | 10                                       |
| **Met306Val**                  | **23**                         |                                        | 1                                        |
| Met306Ile+Gln497Arg            |                                | 1                                      | 0                                        |
| c-12t                          | Met306Val+Tyr319Cys            | 1                                      | 0                                        |
|                                 | Tyr319Ser                      | 3                                      | 1                                        |
| **WT**                         | **WT**                         | 1                                      | 61                                       |
| **Total**                      |                                | 42                                     | 82                                       |

Note: WT indicates wild type

**Table S5** The distribution of gene mutations associated with streptomycin-resistance

| rpsL mutation (codon position) | rrs mutation (codon position) | No. of isolates with resistant phenotype | No. of isolates with susceptible phenotype |
|--------------------------------|--------------------------------|----------------------------------------|------------------------------------------|
| **Lys43Arg**                   | **46**                         |                                        | 0                                        |
| Lys88Arg                       |                                | 10                                     | 0                                        |
| a-514c                         |                                | 2                                      | 0                                        |
| c-517t                         |                                | 1                                      | 2                                        |
| **WT**                         | **WT**                         | 1                                      | 62                                       |
| **Total**                      |                                | 60                                     | 64                                       |

Note: WT indicates wild type
Table S6 The distribution of gene mutations associated with fluoroquinolones resistance

| gyrA mutation (codon position) | gyrB mutation (codon position) | No. of isolates with resistant phenotype | No. of isolates with susceptible phenotype |
|-------------------------------|-------------------------------|----------------------------------------|------------------------------------------|
| Ala90Val                      | 10 (10)                       | 0 (0)                                  |                                          |
| Ala90Val                      | Thr500Asn                     | 1 (1)                                  | 0 (0)                                    |
| Asp89Asn                      | 1 (1)                         | 0 (0)                                  |                                          |
| Asp94Gly                      | 13 (13)                       | 0 (0)                                  |                                          |
| Asp94Ala                      | 2 (2)                         | 0 (0)                                  |                                          |
| Asp94Ala+Ala90Val             | 1 (1)                         | 0 (0)                                  |                                          |
| Asp94Asn                      | 2 (2)                         | 0 (0)                                  |                                          |
| Asp461Asn                     | 1 (0)                         | 0 (1)                                  |                                          |
| WT                            | WT                            | 1 (0)                                  | 87 (88)                                  |
| Total                         | 37 (35)                       | 87 (89)                                |                                          |

Note: WT indicates wild type; the numbers in parentheses represent the resistance to moxifloxacin, while the numbers outside the parentheses represent the resistance to ofloxacin.

Table S7 The distribution of gene mutations associated with amikacin and kanamycin resistance

| rrs mutation (codon position) | No. of isolates with resistant phenotype | No. of isolates with susceptible phenotype |
|-------------------------------|----------------------------------------|------------------------------------------|
| a-1401g                       | 5                                      | 0                                        |
| WT                            | 1                                      | 118                                      |
| Total                         | 6                                      | 118                                      |

Note: WT indicates wild type