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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| error | | | | Address:  Tel:  Email: 888 | | | | | |
| **Mycobacterium tuberculosis sequencing report** | | | | | | | | | |
| Patient name | | |  | | Patient ID | |  | | |
| Software | | | TB-Profiler1 v6.2.1 | | Date | | 03 Dec 2024 | | |
| Sequence platform | | |  | | Sample source | |  | | |
| **Summary** | | | | | | | | | |
| Strain type | | lineage2.2.1 | | | Resistance | | | MDR-TB | |
| Notes: | | | | | | | | | |
| **Detail**  Resistance is reported if a resistance-associated mutation has been found. Individual mutations are listed as well as their confidence values as reported in the WHO catalogue2 | | | | | | | | | |
| **Drug** | **Mutations** | | | | | **WHO confidence** | | | **Interpretation** |
| Isoniazid | inhA\_c.-777C>T, inhA\_p.Ile194Thr | | | | | Assoc w R, Uncertain significance | | | Resistance |
| Rifampicin | rpoB\_p.Ser450Leu | | | | | Assoc w R | | | Resistance |
| Ethambutol | embB\_p.Met306Val | | | | | Assoc w R | | | Resistance |
| Pyrazinamide | Not found | | | | | - | | | - |
| Streptomycin | rpsL\_p.Lys88Arg | | | | | Assoc w R | | | Resistance |
| Fluoroquinolones  - Levofloxacin  - Moxifloxacin | Not found  Not found | | | | | -  - | | | -  - |
| SLIDs  - Amikacin  - Kanamycin  - Capreomycin | Not found  Not found  Not found | | | | | -  -  - | | | -  -  - |
| p-aminosalicylic acid | Not found | | | | | - | | | - |
| Ethionamide | inhA\_c.-777C>T, inhA\_p.Ile194Thr, ethR\_p.Ala95Thr | | | | | Assoc w R, Uncertain significance, Uncertain significance | | | Resistance |
| Cycloserine | Not found | | | | | - | | | - |
| Linezolid | Not found | | | | | - | | | - |
| Bedaquiline | Not found | | | | | - | | | - |
| Delamanid | Not found | | | | | - | | | - |
| References:  1. Phelan, J., O’Sullivan, D.M., Machado, D. et al. Integrating informatics tools and portable sequencing technology for rapid detection of resistance to anti-tuberculous drugs. Genome Med 11, 41 (2019). https://doi.org/10.1186/s13073-019-0650-x  2. Catalogue of mutations in Mycobacterium tuberculosis complex and their association with drug resistance. Geneva: World Health Organization; 2021. Licence: CC BY-NC-SA 3.0 IGO. | | | | | | | | | |