MYCOBACTERIUM TUBERCULOSIS GENOME SEQUENCING REPORT



NOT FOR DIAGNOSTIC USE

Patient Name	DIANE EVANS	Barcode	BARCODE
Birth Date	1887-04-04	Patient ID	34567890
Location	LONDON	Sample Type	SPUTUM
Sample Source	PULMONARY	Sample Date	1916-12-30; 18:45
Sample ID	917BAHDYB1	SequencedFrom	MGIT CULTURED ISOLATE
Reporting Lab	OXFORD	Report Date/Time	1917-01-09
Requested By	DR. REQUESTOR NAME	Requester Contact	CONTACT@GENOME.COM

Summary

The specimen was positive for **Mycobacterium tuberculosis**. It is predicted to be **resistant to Ethambutol**, **Pyrazinimide**, **Isoniazid**, **Rifampin**, **and Streptomycin**. It belongs to a cluster, suggesting **recent transmission**

Organism The specimen was positive for *Mycobacterium tuberculosis*, lineage 2.2.1 (East-Asian Beijing)

Drug Susce	ptibility		
conferring muta	eported when a high-co ation is detected. "No e the possibility of resist	mutation detected"	 □ No drug resistance predicted □ Mono-resistance predicted □ Multi-drug resistance predicted ☑ Extensive drug resistance predicted
Drug class	Interpretation	Drug	Resistance Gene (Amino Acid Mutation)
First-line Resistant	Ethambutol	emb (M306I)	
	Pyrazinimide	pncA (T47A)	
i ii st iii le	Resistant	Isoniazid	katG (S315T)
		Rifampin	rpoB (S531L)
		Ciprofloxacin	No resistance mutation detected
Susceptible Second-line		Moxifloacin	No resistance mutation detected
	Susceptible	Amikacin	No resistance mutation detected
		Kanamycin	No resistance mutation detected
	Capreomycin	No resistance mutation detected	
	Resistant	Streptomycin	rpsL (K43R)

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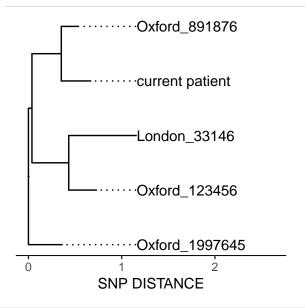




Cluster Detection

Current specimen was found to be closely clustered with previous specimens suggesting recent transmission

Relatedness	Number of prior matching isolates
Likely Related (< 5 SNPS apart)	2 isolates
Possibly Related (6 to 30 SNPS apart)	2 isolates



Assay Details

Sample ID	A12345678	Barcode	
Sequencer	ILLUMINA HISEQ 2500	Method	WGS
Pipeline	RESEQTB V.3.2C	Reference	H37RV

Comments

No additional comments

Standard Disclaimer: Low frequency hetero-resistance below the limit of detection by sequencing may affect typing results. The interpretation provided is based on the current understanding of genotype-phenotype relationships.

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Signature	Name
Position	Date