

TUBERCULOSIS RESISTANCE REPORT

 $Whole\ Genome\ Sequencing\ Report$

PATIENT NHI: NHX1212

A1: Summary Report

Patient Details				
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Patient Name:	GINA REGAL	Barcode:	1002	
DOB:	1/02/00	NHI:	NHX1212	
Gender:	F	Ethnicity:	NZ EUROPEAN	
Location:	HAMILTON	Sample Type:	SPUTUM	
Sample Date:	9/11/16	Culture Method:	MGIT CULTURED ISOLATES	
Reporting Lab:	LABPLUS	Technician:	DR ROD JACKSON	
Sequencing Date:	19/05/20	Sequencing:	WGS	
Requested by:	DR. EXAMPLE	Contact:	EMAIL.ADDRESS@DHB.GOVT.N	

Resistance Profile			
Drug Class	Resistance	Drug	Mutation
	Sensitive	Ethambutol	No resistance predicted
First Line	Sensitive	Pyrazinamide	No resistance predicted
riist Line	Dagistanas	Isoniazid	${ m fabG1}$ —
	Resistance	Rifampicin	rpoB Asp435Tyr
		Amikacin	No resistance predicted
		Capreomycin	No resistance predicted
	Sensitive	Kanamycin	No resistance predicted
Second Line		Linezolid	No resistance predicted
Second Line		Para-aminosalicylic	No resistance predicted
	Resistance	Ethionamide	fabG1 —
		Fluoroquinolones	gyrB Asn499Asp
		Streptomycin	rpsL Lys43Arg

PATIENT NHI: NHX1212 June 9, 2020



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A2: Whole Genome Sequencing Report

Genotypic Report

Drug	Genomics	Genomics Allele		Gene	High Confidence	PMID	
Drug	Position	Reference	Alternative	(Mutation)	Ingii Comidence	LMID	
Isoniazid	1673425	С	Т	fabG1 —	yes	26104204	
Rifampicin	761109	G	Т	rpoB Asp435Tyr	yes	11880449	
Ethionamide	1673425	С	Т	fabG1 —	yes	26104204	
Streptomycin	781687	A	G	rpsL Lys43Arg	yes	22646308	
Fluoroquinolones	6734	A	G	gyrB Asn499Asp	yes	17412727	
Fluoroquinolones	6738	С	A	gyrB Thr500Asn	yes	24055765	
Fluoroquinolones	6741	A	T	gyrB Glu501Val	yes	19721073	
Fluoroquinolones	6750	С	T	gyrB Ala504Val	yes	24055765	
Fluoroquinolones	7563	G	T	gyrA Gly88Cys	yes	24055765	
Fluoroquinolones	7564	G	С	gyrA Gly88Ala	yes	24055765	
Fluoroquinolones	7572	Т	С	gyrA Ser91Pro	yes	21562102	
Fluoroquinolones	7582	A	G	gyrA Asp94Gly	yes	21300839	
Fluoroquinolones	7582	A	С	gyrA Asp94Ala	yes	21300839	
Fluoroquinolones	6749	G	A	gyrB Ala504Thr	no	19470506	
Fluoroquinolones	7582	A	T	gyrA Asp94Val	no	17434825	

NOTE: This genotypic report is a prediction of drug resistance based on the detection of known resistance conferring mutations, and should only be used as a guide. The actual drug susceptability may differ from what is stated in this report.

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A3: Technical Report

Pipeline				
Pipeline Phred Score	Resistance V0.01a	Genome Masking	H37Rv NO	

Forward Statistic	s: WRX.R1.fasto	$\mathbf{q.gz}$	
Pre-Trimming		Post-Trimming	_
Total Reads	VALUE	Total Reads	VALUE (%)
Average Quality	VALUE	Average Quality	VALUE
GC%	VALUE	GC%	VALUE
Mean read length	VALUE	Mean read length	VALUE
Read range	VALUE	Read range	VALUE

Reverse Statistics					
	File name	NAME			
	Pre-Tr	imming	Post-Tr	imming	
	Total Reads	VALUE	Total Reads	VALUE (%)	
	Average Quality	VALUE	Average Quality	VALUE	
	GC%	VALUE	GC%	VALUE	
	Mean read length	VALUE	Mean read length	VALUE	
	Read range	VALUE	Read range	VALUE	

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