



PHD LABORATORY

**PATIENT INFORMATION**  
NAME: PGX1-A 1 PGX1-A 1  
DOB:  
SEX AT BIRTH: Unknown

**SPECIMEN DETAILS**  
BARCODE: X241300004  
SAMPLE ID: X241300004  
TYPE: Saliva  
COLLECTED: 08/May/2024

**ORDERED BY**  
**REPORT**  
GENERATED: 09/May/2024

This pharmacogenetic information is based on best evidence compiled from guidelines and databases including the FDA Table of Pharmacogenetic Associations and the Clinical Pharmacogenetics Implementation Consortium (CPIC). In some cases, PharmGKB and the Dutch Pharmacogenetics Working Group (DPWG) may also be referenced. Please refer to the Methods, Limitations, and Liability Disclaimer at the end of this report.

## [Current Medications Impacted In This Report](#)

The medications listed below indicate the patient's **Current Medications** impacted in this report.

**No current medications impacted in this report.**

## **Summary of Genetic Lab Data & Phenotypes**

Gene	Allele Result	Phenotype Result
CYP 3A4	*1A/*1A	Normal Metabolizer
CYP 2D6	*4/*41	Intermediate Metabolizer
CYP 2C 9	*1/*1	Normal Metabolizer
CYP 2C 19	*2/*7	Poor Metabolizer
SLCO 1B1	*1/*37	Normal Function
CYP 2B6	*1/*6	Intermediate Metabolizer
CYP 3A5	*3/*3	Poor Metabolizer
DPYD	*1/*1	Normal Metabolizer
NUDT15	*1/*1	Normal Metabolizer
TPMT	*1/*1	Normal Metabolizer

This is a short summary of the full medication report. The patient's results are now accessible within the clinical decision support software, TreatGx and ReviewGx, and can be used with other clinical information to enable precision prescribing and medication management. The final genotype/phenotype call is at the discretion of the laboratory director. Medication changes should only be initiated at the discretion of the patient's healthcare provider after a full assessment.

## **Methodology**

Array based assays detect listed alleles, including all common and most rare variants with known clinical significance at analytical sensitivity and specificity >99%.





PHD LABORATORY

**PATIENT INFORMATION**

**NAME:** PGX1-A 1 PGX1-A 1  
**DOB:** [REDACTED]  
**SEX AT BIRTH:** Unknown

**SPECIMEN DETAILS**

**BARCODE:** X241300004  
**SAMPLE ID:** X241300004  
**TYPE:** Saliva  
**COLLECTED:** 08/May/2024

**ORDERED BY**

[REDACTED]  
**REPORT**  
[REDACTED] May/2024

**Limitation**

This test will not detect all the known alleles that result in altered or inactive tested genes. This test does not account for all individual variations in the individual tested. Absence of a detectable gene mutation does not rule out the possibility that a patient has different phenotypes due to the presence of an undetected polymorphism or due to other factors such as drug-drug interactions, comorbidities, and lifestyle habits.

**Lab Disclaimer**

Nucleic acid was extracted via magnetic bead-based, solid-phase commercially available technology and reagents. Genotyping was performed by qPCR for the alleles and targets listed on the report, and that passed QC. Genotype and drug metabolism association is made using commercially available software and recommendations from CPIC and PharmGKB. This test does not assay all known alleles that result in altered or inactive function and is limited to the alleles and targets listed on the report. Alleles that re "no-call" or failed QC are not analyzed. Absence of a detectable gene mutation does not rule out the possibility that the patient has a phenotype due to the presence of an undetected polymorphism or due to other factors such as drug-drug interactions, comorbidities, and lifestyle habits. The performance characteristics of this test were determined by Ph.D. Laboratories (CLIA: 34D2214106, COLA: 30912). It has not been cleared or approved by the U.S. Food and Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary. This test is for clinical purposes only and not for investigational and/or research use. The laboratory is regulated under the Clinical Laboratory improvement Act of 1988 as qualified to perform high complexity testing.

Cynthia L Sims PhD, HCLD(ABB)  
Laboratory Director, MD, FRCP(C),  
FRSC, ABIM, CLIA #34D2214106

09/May/2024

Date of Signature





PHD LABORATORY

**PATIENT INFORMATION**  
NAME: PGX1-A 1 PGX1-A 1  
DOB: ██████████  
SEX AT BIRTH: Unknown

**SPECIMEN DETAILS**  
BARCODE: X241300004  
SAMPLE ID: X241300004  
TYPE: Saliva  
COLLECTED: 08/May/2024

**ORDERED BY** ██████████  
**REPORT GENERATED:** 09/May/2024

	1 Mild or no known interaction	2 Moderate gene-drug interaction Consider alternative medications	3 Serious drug-gene interaction: evaluate and consider alternative medications
<b>Analgesia</b>	Alfentanil		
	Carisoprodol		
	Celecoxib		
	Codeine		
	Fentanyl		
	Flurbiprofen		
	Hydrocodone		
	Ibuprofen		
	Meloxicam		
	Morphine		
Piroxicam			
Tenoxicam			
Tramadol			
Venlafaxine			
<b>Autoimmune</b>	Azathioprine		
	Cyclosporine		
	Mercaptopurine		
	Siponimod		
	Tacrolimus		
<b>Cancer</b>	Capecitabine		
	Erdafitinib		
		May require an increased dose	
		May require a reduced dose	
		May reduce efficacy	
		May increase adverse events	
		Desipramine Nortriptyline	Desipramine Nortriptyline
		Tamoxifen	Tamoxifen
		Tamoxifen	Tamoxifen
			Amitriptyline Imipramine





PHD LABORATORY

**PATIENT INFORMATION**

NAME: PGX1-A 1 PGX1-A 1  
DOB: [REDACTED]  
SEX AT BIRTH: Unknown

**SPECIMEN DETAILS**

BARCODE: X241300004  
SAMPLE ID: X241300004  
TYPE: Saliva  
COLLECTED: 08/May/2024

**ORDERED BY**

[REDACTED]  
REPORT  
GENERATED: 09/May/2024



Mild or no known interaction



Moderate gene-drug interaction



Serious drug-gene interaction: evaluate and consider alternative medications



Consider alternative medications



May require an increased dose



May require a reduced dose



May reduce efficacy



May increase adverse events

	Fluorouracil Mercaptopurine Thioguanine	Atorvastatin Carvedilol Fluvastatin Lovastatin Nebivolol Pitavastatin Pravastatin Propranolol Rosuvastatin Simvastatin	Warfarin	Flecainide Warfarin	Flecainide Metoprolol Propafenone Warfarin	Flecainide Metoprolol Propafenone Warfarin	Dexlansoprazole Lansoprazole Medicine Omeprazole Pantoprazole	Dexlansoprazole Lansoprazole Medicine Omeprazole Pantoprazole	Efavirenz Voriconazole	Voriconazole	Efavirenz Voriconazole	Amitriptyline Clomipramine
<b>Cardiovascular</b>												
<b>Gastroenterology</b>	Dronabinol Metoclopramide Ondansetron											
<b>Infection</b>												
<b>Mental Health</b>	Alprazolam Amoxapine											





PHD LABORATORY

**PATIENT INFORMATION**

NAME: PGX1-A 1 PGX1-A 1  
DOB: [REDACTED]  
SEX AT BIRTH: Unknown

**SPECIMEN DETAILS**

BARCODE: X241300004  
SAMPLE ID: X241300004  
TYPE: Saliva  
COLLECTED: 08/May/2024

**ORDERED BY**

[REDACTED]  
**REPORT**  
GENERATED: 09/May/2024

1 Mild or no known interaction	2 Moderate gene-drug interaction Consider alternative medications	May require an increased dose	May require a reduced dose	May reduce efficacy	May increase adverse events	3 Serious drug-gene interaction: evaluate and consider alternative medications
Amphetamine Aripiprazole lauroxil Bromazepam Chlordiazepoxide Clonazepam Clorazepate Diazepam Flurazepam Lofexidine Lorazepam Nitrazepam Oxazepam Protriptyline Risperidone Temazepam Triazolam Venlafaxine	Sertraline	Clobazam Desipramine Escitalopram Nortriptyline Paroxetine Sertraline			Atomoxetine Brexpiprazole Cariprazine Chlorpromazine Citalopram Clobazam Clozapine Desipramine Escitalopram Flupentixol Fluphenazine Fluvoxamine Haloperidol Iloperidone Loxapine Lurasidone Methotrimeprazine Molindone Nortriptyline Olanzapine Paliperidone Paroxetine Perphenazine Pimozide Prochlorperazine Promethazine Quetiapine	Doxepin Imipramine Trimipramine Zuclopentixol







PHD LABORATORY

**PATIENT INFORMATION**

**NAME:** PGX1-A 1 PGX1-A 1  
**DOB:** ██████████  
**SEX AT BIRTH:** Unknown

**SPECIMEN DETAILS**

**BARCODE:** X241300004  
**SAMPLE ID:** X241300004  
**TYPE:** Saliva  
**COLLECTED:** 08/May/2024

**ORDERED BY**

██████████

**REPORT**

**GENERATED:** 09/May/2024

1	2	3	4	5	6
<p>Mild or no known interaction</p>	<p>Moderate gene-drug interaction</p> <p>Consider alternative medications</p>	<p>May require an increased dose</p>	<p>May require a reduced dose</p>	<p>May reduce efficacy</p>	<p>May increase adverse events</p>
<p>Rheumatology</p> <p>Azathioprine Celecoxib Flurbiprofen Ibuprofen Meloxicam Piroxicam Tenoxicam</p>					
<p>Urology</p> <p>Darifenacin Fesoterodine Mirabegron Tamsulosin Tolterodine</p>					<p>Serious drug-gene interaction: evaluate and consider alternative medications</p>

