

PATIENT INFORMATION NAME: Custom\_NA20509 Panel\_NA20509 DOB: 18/Jul/1994 SEX AT BIRTH: Female

#### SPECIMEN DETAILS

BARCODE: NA20509 SAMPLE ID: NA20509 TYPE: Swab COLLECTED: 11/May/2023 ORDERED BY

Test Provider GENERATED: 23/Mar/2024

This pharmacogenetic information is based on best evidence compiled from guidelines and databases including the FDA Table of Pharmacogenetic Associations, PharmGKB, Clinical Pharmacogenetics Implementation Consortium (CPIC) and Dutch Pharmacogenetics Working Group (DPWG).

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**

# Attention

Clinically significant alleles were detected in the HLA-B gene which are associated with increased risk for drug-induced severe cutaneous adverse reactions (SCAR), including Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), for the following drugs:

Allopurinol: See FDA product monograph and CPIC guideline(doi:10.1038/clpt.2012.209) Carbamazepine: See FDA product monograph and CPIC guideline(Tegretol Product Monograph, 2018) Fosphenytoin: See FDA product monograph and CPIC guideline(Crepby Product Monograph, 2020) Oxcarbazepine: See FDA product monograph and CPIC guideline(Trileptal Product Monograph, 2015) Phenytoin: See FDA product monograph and CPIC guideline(Dilantin Product Monograph, 2018)



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Gene	Allele Result	Phenotype Result
CYP2B6	*1/*7	Intermediate Metabolizer
CYP2D6	*4.024/*35.001	Intermediate Metabolizer
CYP2C9	*1/*1	Normal Metabolizer
CYP2C19	*2/*2	Poor Metabolizer
СҮРЗА4	*1/*1	Normal Metabolizer
СҮРЗА5	*3/*3	Poor Metabolizer
DPYD	*1/c.85T>C (*9A)	Normal Metabolizer
G6PD	B (reference)	Normal
NUDT15	*9/*9	Poor Metabolizer
SLC01B1	*1/*15	Decreased Function
ТРМТ	*1/*1	Normal Metabolizer
Gene	Allele	Result
HLA-A	*31:01	Negative
HLA-B	*15:02	Positive
HLA-B	*58:01	Positive
HLA-B	*57:01	Negative

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.





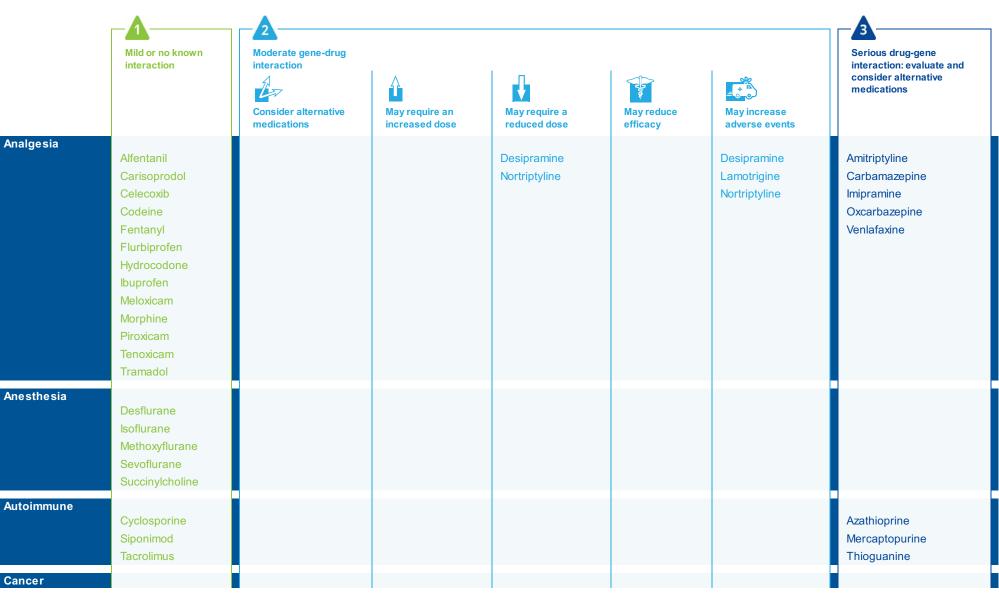
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	Mild or no known interaction	Moderate gene-drug interaction			Serious drug-gene interaction: evaluate and		
		Consider alternative medications	May require an increased dose	May require a reduced dose	May reduce efficacy	May increase adverse events	consider alternative medications
	Capecitabine Erdafitinib Fluorouracil	Tamoxifen	Tamoxifen		Tamoxifen		Mercaptopurine Thioguanine
Cardiovascular	Carvedilol Fluvastatin Nebivolol Pravastatin Propranolol Rosuvastatin	Lovastatin Simvastatin	Warfarin	Atorvastatin Flecainide Pitavastatin Warfarin	Flecainide Metoprolol Propafenone Warfarin	Atorvastatin Flecainide Metoprolol Pitavastatin Propafenone Warfarin	Clopidogrel
Gastroenterology	Dronabinol Metoclopramide Ondansetron			Dexlansoprazole Lansoprazole Meclizine Omeprazole Pantoprazole	Dexlansoprazole Lansoprazole Meclizine Omeprazole Pantoprazole	Dexlansoprazole Lansoprazole Meclizine Omeprazole Pantoprazole	
Infection	Abacavir Dapsone Nitrofurantoin Primaquine Tafenoquine	Voriconazole		Efavirenz	PEG-interferon alpha Voriconazole	Efavirenz Voriconazole	
Mental Health	Alprazolam Amoxapine			Citalopram Clobazam	Citalopram Clobazam	Aripiprazole Asenapine	Amitriptyline Carbamazepine





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Mild or no known interaction



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		Consider alternative medications	May require an increased dose	May require a reduced dose	May reduce efficacy	May increase adverse events	consider alternative medications
						Trifluoperazine Ziprasidone	
Neurology	Clonazepam Deutetrabenazine Diazepam Donepezil Galantamine Propranolol Tetrabenazine Valbenazine			Brivaracetam Clobazam Desipramine Nortriptyline	Brivaracetam Clobazam Metoprolol	Brivaracetam Clobazam Desipramine Lamotrigine Metoprolol Nortriptyline	Amitriptyline Carbamazepine Fosphenytoin Oxcarbazepine Phenytoin Venlafaxine
Dther	Avatrombopag Cevimeline Elagolix Eltrombopag Methylene blue Oral contraceptives			Flibanserin	Flibanserin	Flibanserin	Eliglustat
Rheumatology	Celecoxib Flurbiprofen Ibuprofen Meloxicam Pegloticase Piroxicam Rasburicase						Allopurinol Azathioprine



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#### Limitations

The annotations and interpretations provided in this report are based on scientific literature and do not take into account drug-drug interactions, medical conditions or other clinical factors that may affect medication response. Gene-drug interactions are ranked according to guidelines, level of evidence and clinical utility. GenXys reports and TreatGx Clinical Decision Support are regularly updated. Current predicted phenotype and allele functionality may change in the future depending on new evidence. Phenotype annotations for CYP2C9 are based on total activity scores as defined by CPIC<sup>79</sup>. Genetic test results and interpretation may be inaccurate for individuals who have undergone or are receiving non-autologous blood transfusion, tissue, or organ transplant therapies.

The report includes alleles of proteins involved in the metabolism of many medications. In rare cases, a variant that is not covered may be typed as \*1 or other variants. In the case of pseudogenes and mutations in the untranslated regions of genes, incorrect allele typing may occur despite proper SNP detection. Preferential amplification of one allele over another present in the sample may also lead to incorrect genotyping.

#### Liability Disclaimer

This test was developed and its performance characteristics determined by GenXys Health Care Systems. It has not been cleared or approved by the US Food and Drug Administration. The report is not a diagnostic test, and TreatGx is not a prescribing system. You should discuss your pharmacogenetic information with a physician or other health care provider before you act upon the pharmacogenetic information resulting from this report. The medication brand names are not an exhaustive list and do not include combination therapies. Not all medications in this report are included in the TreatGx or ReviewGx software or other GenXys derivative works.

Dr Danny Meyersfeld, Laboratory Director, PhD

23/Mar/2024

Date of Signature

