

Who Should Get Tested?

Consider Genomind testing for patients meeting any of the criteria to the right.



Failed medications or experiencing treatment resistance across behavioral health, pain management, cardiology, or gastroenterology



Experiencing adverse drug reactions (ADRs) or chronic conditions requiring polypharmacy



Prescribed or being considered for one of the below medications with published PGx guidance

SSRIs

Generic Name	Brand Name	Gene
Citalopram	Celexa	CYP2C19
Escitalopram	Lexapro	CYP2C19
Fluvoxamine	Luvox	CYP2D6
Paroxetine	Paxil	CYP2D6
Sertraline	Zoloft	CYP2C19

Tricyclic Antidepressants

Generic Name	Brand Name	Gene
Amitriptyline	Elavil	CYP2D6, CYP2C19
Clomipramine	Anafranil	CYP2C19, CYP2D6
Desipramine	Norpramin	CYP2D6
Doxepin	Sinequan	CYP2C19, CYP2D6
Imipramine	Tofranil	CYP2C19, CYP2D6
Nortriptyline	Pamelor	CYP2D6

ADHD Medications

Generic Name	Brand Name	Gene
Amphetamine /Dextroamphetamine	Adderall	CYP2D6
Atomoxetine	Strattera	CYP2D6

SNRIs

Generic Name	Brand Name	Gene
Venlafaxine	Effexor	CYP2D6

Miscellaneous Antidepressants

Generic Name	Brand Name	Gene
Dextromethorphan /Bupropion	Auvelity	CYP2D6
Vortioxetine	Trintellix	CYP2D6

Antipsychotics

Generic Name	Brand Name	Gene
Aripiprazole	Abilify	CYP2D6
Brexpiprazole	Rexulti	CYP2D6
Haloperidol	Haldol	CYP2D6
lloperidone	Fanapt	CYP2D6
Quetiapine	Seroquel	CYP3A4/5
Risperidone	Risperdal	CYP2D6

Additional Medications

Generic Name	Brand Name	Gene
Deutetrabenazine	Austedo	CYP2D6
Valbenazine	Ingrezza	CYP2D6

⚠️ Special consideration should be given to these medications due to risk of potentially life-threatening ADRs:

Brand (Generic Name)	Gene	Brand (Generic Name)	Gene	Brand (Generic Name)	Gene	Brand (Generic Name)	Gene
Plavix (Clopidogrel)	CYP2C19	Codeine	CYP2D6	Ultram (Tramadol)	CYP2D6	Prograf (Tacrolimus)	CYP3A5
Tegretol (Carbamazepine)*	HLA-B *15:02 HLA-A *31:01	Trileptal (Oxcarbazepine)*	HLA-B *15:02	Dilantin (Phenytoin) /Cerebyx (Fosphenytoin)*	CYP2C9 HLA-B *15:02	Lamictal (Lamotrigine)*	HLA-B *15:02
		Nolvadex (Tamoxifen)	CYP2D6	Cerdelga (Eliglustat)	CYP2D6	Mayzent (Siponimod)	CYP2C9

This may not be an all-inclusive list of actionable gene-drug guidance. Over 100 medications have genetic implications found in their FDA labels or table of biomarkers relevant to genes tested on Genomind's PGx panel. There are 26 current CPIC guidelines that span medications used in psychiatry, cardiology, gastroenterology, pain management, and more. For additional PGx guidance from CPIC visit cpicpgx.org/guidelines or from DPWG visit pharmgkb.org/page/dpwg

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Cardiology

Generic Name	Brand Name	Gene
Atorvastatin	Lipitor	SLCO1B1
Carvedilol	Coreg	CYP2D6
Clopidogrel	Plavix	CYP2C19
Flecainide	Tambocor	CYP2D6
Fluvastatin	Lescol XL	CYP2C9, SLCO1B1
Lovastatin	Altoprev	SLCO1B1
Metoprolol	Lopressor, Toprol XL	CYP2D6
Nebivolol	Bystolic	CYP2D6
Pitavastatin	Livalo	SLCO1B1
Pravastatin	Pravachol	SLCO1B1
Propafenone	Rythmol SR	CYP2D6
Propranolol	Inderal	CYP2D6
Rosuvastatin	Crestor	ABCG2, SLCO1B1
Simvastatin	Zocor	SLCO1B1
Warfarin	Coumadin	CYP2C9

Genitourinary Agents

Generic Name	Brand Name	Gene
Darifenacin	Enablex	CYP2D6
Fesoterodine	Toviaz	CYP2D6
Mirabegron	Myrbetriq	CYP2D6
Tamsulosin	Flomax	CYP2D6
Tolterodine	Detrol	CYP2D6

Pain Management

Generic Name	Brand Name	Gene
Carisoprodol	Soma	CYP2C19
Celecoxib	Celebrex	CYP2C9
Codeine		CYP2D6
Flurbiprofen	Ansaid	CYP2C9
Hydrocodone		CYP2D6
Ibuprofen	Advil, Motrin	CYP2C9
Meloxicam	Mobic	CYP2C9
Oliceridine	Olinvyk	CYP2D6
Piroxicam	Feldene	CYP2C9
Tramadol	Ultram	CYP2D6

Gastroenterology

Generic Name	Brand Name	Gene
Dexlansoprazole	Dexilant	CYP2C19
Dronabinol	Marinol	CYP2C9
Lansoprazole	Prevacid	CYP2C19
Metoclopramide	Reglan	CYP2D6
Omeprazole	Prilosec	CYP2C19
Ondansetron	Zofran	CYP2D6
Pantoprazole	Protonix	CYP2C19

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