

Comprehensive Pharmacogenetic (PGx) Testing Gene Panel

Examples of drugs metabolised and genes tested

Medication	Gene(s)
Cardiology	
Carvedilol	CYP2D6
Clopidogrel	CYP2C19
Flecainide	CYP2D6
Metoprolol	CYP2D6
Warfarin	VKORC1, CYP2C9
Lipid Lowering Medication	
Atorvastatin	SLCO1B1, CYP3A4
Fluvastatin	SLCO1B1, CYP2C9
Lovastatin	SLCO1B1
Pitavastatin	SLCO1B1
Pravastatin	SLCO1B1
Rosuvastatin	SLCO1B1
Simvastatin	SLCO1B1
Gastroenterology	
Anti-Emetic	
Metoclopramide	CYP2D6
Ondansetron	CYP2D6
Tropisetron	CYP2D6
Proton Pump Inhibitors	
Esomeprazole	CYP2C19
Lansoprazole	CYP2C19
Omeprazole (Losec)	CYP2C19
Pantoprazole	CYP2C19
Rabeprazole	CYP2C19
Mental Health	
Anti-ADHD	
Atomoxetine	CYP2D6
Dextroamphetamine	CYP2D6
Lisdexamfetamine	CYP2D6
Anti-Depressants (MOAs)	
Moclobemide	CYP2C19
Anti-Depressants (SNRIs)	
Venlafaxine	CYP2D6

Medication	Gene(s)
Mental Health	
Anti-Depressants (SSRIs)	
Citalopram	CYP2C19
Escitalopram	CYP2C19
Fluoxetine (Prozac)	CYP2D6
Fluvoxamine	CYP2D6
Paroxetine	CYP2D6
Sertraline (Zoloft)	CYP2C19
Anti-Depressants (TCAs)	
Amitriptyline	CYP2D6, CYP2C19
Clomipramine	CYP2D6, CYP2C19
Desipramine	CYP2D6, CYP2C19
Dosulepin	CYP2D6, CYP2C19
Doxepin	CYP2D6, CYP2C19
Imipramine	CYP2D6, CYP2C19
Nortriptyline	CYP2D6
Trimipramine	CYP2C19
Anti-Depressants (Other)	
Vortioxetine	CYP2D6
Anti-Psychotics	
Aripiprazole	CYP2D6
Brexpiprazole	CYP2D6
Chlorpromazine	CYP2D6
Haloperidol	CYP2D6
Olanzapine	CYP1A2
Quetiapine	CYP3A4
Risperidone	CYP2D6
Zuclopenthixol	CYP2D6
Benzodiazepines (Anxiolytics)	
Clobazam	CYP2C19
Diazepam (Valium)	CYP2C19

Medication	Gene(s)
Neurology	
Anti-Dementia	
Donepezil	CYP2D6
Galantamine	CYP2D6
Anti-Epileptics	
Phenytoin/ Fosphenytoin	CYP2C9
Multiple Sclerosis	
Siponimod	CYP2C9
Oncology	
Gefitinib	CYP2D6
Tamoxifen	CYP2D6
Organ Transplant	
Tacrolimus	CYP3A5
Pain Management	
NSAIDs	
Celecoxib	CYP2C9
Flurbiprofen	CYP2C9
Ibuprofen	CYP2C9
Piroxicam	CYP2C9
Meloxicam	CYP2C9
Opioids	
Codeine (prodrug)	CYP2D6
Dihydrocodeine	CYP2D6
Tramadol	CYP2D6
Urology	
Darifenacin	CYP2D6
Mirabegron	CYP2D6
Tamsulosin	CYP2D6
Tolterodine	CYP2D6
Anti-Fungal	
Voriconazol	CYP2C19

Please note that this is a guide for gene selection. Some specific medications may not be reported if they are listed under a drug class that is metabolised by the relevant gene.