

Drug - Gene - Combination

Drug	Indication level	Gene
abacavir	infectious disease	HLA-B*57:01
abrocitinib	dermatology	CYP2C19
acenocoumarol	cardiology or hematology	CYP2C9
allopurinol	gout	HLA-B*58:01, ABCG2
amifampridine	neurology	NAT2
amikacin	infectious disease	MT-RNR1
amitriptyline	psychiatry	CYP2D6
arbekacin	infectious disease	MT-RNR1
aripiprazole	psychiatry	CYP2D6
atazanavir	infectious disease	UGT1A1
atomoxetine	psychiatry	CYP2D6
atorvastatin	cardiology	SLCO1B1
avatrombopag	hepatology or hematology	F5, F2
azathioprine	transplantation or rheumatology	TPMT, NUDT15
brexpiprazole	psychiatry	CYP2D6
capecitabine	oncology	DPYD
carbamazepine	neurology	HLA-B*15:02; HLA-A*31:01
carisoprodol	pain management	CYP2C19
carvedilol	cardiology	CYP2D6
celecoxib	rheumatology or pain management	CYP2C9
cevimeline	autoimmune diseases	CYP2D6
citalopram	psychiatry	CYP2C19
clobazam	neurology	CYP2C19
clomipramine	psychiatry	CYP2D6
clopidogrel	cardiology	CYP2C19
clozapine	psychiatry	CYP2D6
codeine	pain management	CYP2D6
dapsone	infectious disease	G6PD
desflurane	anesthesiology	CACNA1S
desipramine	psychiatry	CYP2D6
dexlansoprazole	gastroenterology	CYP2C19
doxepin	psychiatry	CYP2D6
efavirenz	infectious disease	CYP2B6
eltrombopag	hematology	F5
enflurane	anesthesiology	CACNA1S
escitalopram	psychiatry	CYP2C19
ethinylestradiol	contraceptive	F5
fesoterodine	urology	CYP2D6
flecainide	cardiology	CYP2D6
flucloxacilline	infectious disease	HLA-B*57:01
flucytosine	infectious disease	DPYD
fluorouracil	oncology	DPYD
flurbiprofen	rheumatology or pain management	CYP2C9
fluvastatin	cardiology	CYP2C9
fluvoxamine	psychiatry	CYP2D6
gefitinib	oncology	CYP2D6
gentamycin	infectious disease	MT-RNR1

glibenclamide (glyburide)	endocrinology	G6PD
haloperidol	psychiatry	CYP2D6
halothane	anesthesiology	CACNA1S
ibuprofen	rheumatology or pain management	CYP2C9
iloperidone	psychiatry	CYP2D6
imipramine	psychiatry	CYP2D6
irinotecan	oncology	UGT1A1
isoflurane	anesthesiology	CACNA1S
isoniazid	infectious disease	NAT2
kanamycin	infectious disease	MT-RNR1
lansoprazole	gastroenterology	CYP2C19
lornoxicam	rheumatology or pain management	CYP2C9
lovastatin	cardiology	SLCO1B1
mavacamten	cardiology	CYP2C19
meloxicam	rheumatology or pain management	CYP2C9
mercaptopurine	oncology	TPMT, NUDT15
methoxyflurane	anesthesiology	CACNA1S
metoprolol	cardiology	CYP2D6
mivacurium	muscle relaxant	BCHE
netilmicin	infectious disease	MT-RNR1
nortriptyline	psychiatry	CYP2D6
olanzapine	psychiatry	CYP1A2
omeprazole	gastroenterology	CYP2C19
ondansetron	oncology or anesthesiology	CYP2D6
oxcarbazepine	neurology	HLA-B*15:02
oxycodone	pain management	CYP2D6
pantoprazole	gastroenterology	CYP2C19
paromomycin	infectious disease	MT-RNR1
paroxetine	psychiatry	CYP2D6
pazopanib	oncology	UGT1A1
peginterferon alfa 2a	infectious disease	IFNL3
peginterferon alfa 2b	infectious disease	IFNL3
perphenazine	psychiatry	CYP2D6
phenprocoumon	cardiology or hematology	CYP2C9
phenytoin	neurology	HLA-B*15:02
pimozide	psychiatry	CYP2D6
piroxicam	rheumatology or pain management	CYP2C9
pitavastatin	cardiology	SLCO1B1
pravastatin	cardiology	SLCO1B1
propafenone	cardiology	CYP2D6
quetiapin	psychiatry	CYP3A4
rasburicase	oncology	G6PD
ribavirin	infectious disease	IFNL3
risperidone	psychiatry	CYP2D6
rosuvastatin	cardiology	SLCO1B1, ABCG2
sertraline	psychiatry	CYP2C19
sevoflurane	anesthesiology	CACNA1S
simvastatin	cardiology	SLCO1B1
siponimod	neurology	CYP2C9
spectinomycin	infectious disease	MT-RNR1
streptomycin	infectious disease	MT-RNR1
succinylcholine	muscle relaxant	BCHE
tacrolimus	transplantation	CYP3A5
tamoxifen	oncology	CYP2D6
tenoxicam	rheumatology or pain management	CYP2C9
tetrabenazine	neurology	CYP2D6
tioguanine (thioguanine)	oncology	TPMT, NUDT15
thioridazine	psychiatry	CYP2D6
tobramycin	infectious disease	MT-RNR1

tramadol	pain management	CYP2D6
trimipramine	psychiatry	CYP2D6
tropisetron	oncology or anesthesiology	CYP2D6
venlafaxine	psychiatry	CYP2D6
voriconazole	infectious disease	CYP2C19
vortioxetine	psychiatry	CYP2D6
warfarin	cardiology or hematology	CYP2C9
zuclopenthixol	psychiatry	CYP2D6

BMR: Biomarker relevance (classification by pharmGKB.org based on drug label information into categories required, recommended, actionable, informative); **PGx-panel:** biomarker is tested on SONOGEN/Dr Risch PGx-panel; **available:** biomarker is not part of SONOGEN/Dr Risch PGx-panel, drug-gene-pair is part of SONOGEN XP knowledge base, analysis is available upon request.

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