

Genes-Drugs in Published Guidelines: As of September 9, 2026					
Listed by PGx data on FDA Label: By Highest Priority for Testing					
Drug	Gene	Guideline	CPIC Level	ClinPGx Level of Evidence	PGx on FDA Label
abacavir	HLA-B	https://www.clinpgx.org/guideline/PA166251444	A	1A	Testing Required
capecitabine	DPYD	https://www.clinpgx.org/guideline/PA166251462	A	1A	Testing Required
carbamazepine	HLA-B	https://www.clinpgx.org/guideline/PA166251448	A	1A	Testing Required
fluorouracil	DPYD	https://www.clinpgx.org/guideline/PA166251462	A	1A	Testing Required
ivacaftor	CFTR	https://www.clinpgx.org/guideline/PA166251449	A	1A	Testing Required
pegloticase	G6PD	https://www.clinpgx.org/guideline/PA166251450	A	3	Testing Required
primaquine	G6PD	https://www.clinpgx.org/guideline/PA166251450	A	3	Testing Required
rasburicase	G6PD	https://www.clinpgx.org/guideline/PA166251450	A	1A	Testing Required
tafenoquine	G6PD	https://www.clinpgx.org/guideline/PA166251450	A		Testing Required
allopurinol	HLA-B	https://www.clinpgx.org/guideline/PA166251446	A	1A	Testing Recommended
azathioprine	NUDT15	https://www.clinpgx.org/guideline/PA166251442	A	1A	Testing Recommended
azathioprine	TPMT	https://www.clinpgx.org/guideline/PA166251442	A	1A	Testing Recommended
mercaptopurine	NUDT15	https://www.clinpgx.org/guideline/PA166251442	A	1A	Testing Recommended
mercaptopurine	TPMT	https://www.clinpgx.org/guideline/PA166251442	A	1A	Testing Recommended
oxcarbazepine	HLA-B	https://www.clinpgx.org/guideline/PA166251448	A	1A	Testing Recommended
thioguanine	NUDT15	https://www.clinpgx.org/guideline/PA166251442	A	3	Testing Recommended
thioguanine	TPMT	https://www.clinpgx.org/guideline/PA166251442	A	1A	Testing Recommended
amikacin	MT-RNR1	https://www.clinpgx.org/guideline/PA166251466	A	1A	Actionable PGx
atomoxetine	CYP2D6	https://www.clinpgx.org/guideline/PA166251459	A	1A	Actionable PGx
carbamazepine	HLA-A	https://www.clinpgx.org/guideline/PA166251448	A	1A	Actionable PGx
celecoxib	CYP2C9	https://www.clinpgx.org/guideline/PA166251464	A	1A	Actionable PGx
citalopram	CYP2C19	https://www.clinpgx.org/guideline/PA166251452	A	1A	Actionable PGx
clopidogrel	CYP2C19	https://www.clinpgx.org/guideline/PA166251443	A	1A	Actionable PGx
codeine	CYP2D6	https://www.clinpgx.org/guideline/PA166251454	A	1A	Actionable PGx
dapsone	G6PD	https://www.clinpgx.org/guideline/PA166251450	A	4	Actionable PGx
desflurane	CACNA1S	https://www.clinpgx.org/guideline/PA166251460	A	1A	Actionable PGx
desflurane	RYR1	https://www.clinpgx.org/guideline/PA166251460	A	1A	Actionable PGx
flurbiprofen	CYP2C9	https://www.clinpgx.org/guideline/PA166251464	A	1A	Actionable PGx
fosphenytoin	CYP2C9	https://www.clinpgx.org/guideline/PA166251461	A		Actionable PGx
fosphenytoin	HLA-B	https://www.clinpgx.org/guideline/PA166251461	A		Actionable PGx
gentamicin	MT-RNR1	https://www.clinpgx.org/guideline/PA166251466	A	1A	Actionable PGx
hydralazine	NAT2	https://www.clinpgx.org/guideline/PA166416361	A	1A	Actionable PGx
isoflurane	CACNA1S	https://www.clinpgx.org/guideline/PA166251460	A	1A	Actionable PGx
isoflurane	RYR1	https://www.clinpgx.org/guideline/PA166251460	A	1A	Actionable PGx
methylene blue	G6PD	https://www.clinpgx.org/guideline/PA166251450	A	3	Actionable PGx
neomycin	MT-RNR1	https://www.clinpgx.org/guideline/PA166251466	A	1A	Actionable PGx
nitrofurantoin	G6PD	https://www.clinpgx.org/guideline/PA166251450	A	3	Actionable PGx
pantoprazole	CYP2C19	https://www.clinpgx.org/guideline/PA166251441	A	1A	Actionable PGx
phenytoin	CYP2C9	https://www.clinpgx.org/guideline/PA166251461	A	1A	Actionable PGx
phenytoin	HLA-B	https://www.clinpgx.org/guideline/PA166251461	A	1A	Actionable PGx
piroxicam	CYP2C9	https://www.clinpgx.org/guideline/PA166251464	A	1A	Actionable PGx
plazomicin	MT-RNR1	https://www.clinpgx.org/guideline/PA166251466	A		Actionable PGx
sevoflurane	CACNA1S	https://www.clinpgx.org/guideline/PA166251460	A	1A	Actionable PGx
sevoflurane	RYR1	https://www.clinpgx.org/guideline/PA166251460	A	1A	Actionable PGx
streptomycin	MT-RNR1	https://www.clinpgx.org/guideline/PA166251466	A	1A	Actionable PGx
succinylcholine	CACNA1S	https://www.clinpgx.org/guideline/PA166251460	A	1A	Actionable PGx
succinylcholine	RYR1	https://www.clinpgx.org/guideline/PA166251460	A	1A	Actionable PGx
tobramycin	MT-RNR1	https://www.clinpgx.org/guideline/PA166251466	A	1A	Actionable PGx
tramadol	CYP2D6	https://www.clinpgx.org/guideline/PA166251454	A	1A	Actionable PGx
vortioxetine	CYP2D6	https://www.clinpgx.org/guideline/PA166251452	A	1A	Actionable PGx
warfarin	CYP2C9	https://www.clinpgx.org/guideline/PA166251465	A	1A	Actionable PGx
warfarin	VKORC1	https://www.clinpgx.org/guideline/PA166251465	A	1A	Actionable PGx
fluvoxamine	CYP2D6	https://www.clinpgx.org/guideline/PA166251452	B	1A	Actionable PGx
chloroquine	G6PD	https://www.clinpgx.org/guideline/PA166251450	C	4	Actionable PGx
chlorpropamide	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx
dabrafenib	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx
fluoxetine	CYP2D6	https://www.clinpgx.org/guideline/PA166251452	C	3	Actionable PGx
glimepiride	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx
glipizide	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx
glyburide	G6PD	https://www.clinpgx.org/guideline/PA166251450	C	3	Actionable PGx
hydroxychloroquine	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx
nalidixic acid	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx
quinine	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx

sodium nitrite	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx
sulfasalazine	G6PD	https://www.clinpgx.org/guideline/PA166251450	C	3	Actionable PGx
tolazamide	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx
tolbutamide	G6PD	https://www.clinpgx.org/guideline/PA166251450	C		Actionable PGx