

ACH-PGx Test Panel		
Condition/Panel	Drug	Gene
Anesthesia	Desflurane	RYR1/CACNA1S
Anesthesia	Enflurane	RYR1/CACNA1S
Anesthesia	Halothane	RYR1/CACNA1S
Anesthesia	Isoflurane	RYR1/CACNA1S
Anesthesia	Sevoflurane	RYR1/CACNA1S
Anesthesia	Succinylcholine	RYR1/CACNA1S
Cancer	Azathioprine	TPMT/NUDT15
Cancer	Capecitabine	DPYD
Cancer	Cisplatin	ACYP2
Cancer	Daunorubicin	RARG/UGT1A6/SLC28A3
Cancer	Doxorubicin	RARG/UGT1A6/SLC28A3
Cancer	Fluorouracil	DPYD
Cancer	Mercaptopurine	TPMT/NUDT15
Cancer	Thioguanine	TPMT/NUDT15
Cancer	Vincristine	CEP72
Cardiovascular	Clopidogrel	CYP2C19
Cardiovascular	Propranolol	CYP2D6
Cardiovascular	Simvastatin	CYP3A4
Cardiovascular	Simvastatin	SLCO1B1
Cardiovascular	Warfarin	CYP2C9/VKORC1
Gastrointestinal (GI)	Ondansetron	CYP2D6
Gaucher Disease	Eliglustat	CYP2D6
Hematology	Eltrombopag	F5
Infectious Disease	Atazanavir	UGT1A1
Infectious Disease	Chloroquine	G6PD
Infectious Disease	Dapsone	G6PD
Infectious Disease	Primaquine	G6PD
Infectious Disease	Proguanil	CYP2C19
Infectious Disease	Quinine	G6PD
Infectious Disease	Sulfamethoxazole	G6PD
Infectious Disease	Tafenoquine	G6PD
Infectious Disease	Voriconazole	CYP2C19
Neurology	Fosphenytoin	CYP2C9
Neurology	Phenytoin	CYP2C9
Pain	Celecoxib	CYP2C9
Pain	Codeine	CYP2D6
Pain	Hydrocodone	CYP2D6
Pain	Oxycodone	CYP2D6
Pain	Tramadol	CYP2D6
Psychiatry and Addiction Medicine	Amitriptyline	CYP2C19
Psychiatry and Addiction Medicine	Amitriptyline	CYP2D6
Psychiatry and Addiction Medicine	Aripiprazole	CYP2D6
Psychiatry and Addiction Medicine	Atomoxetine	CYP2D6

Psychiatry and Addiction Medicine	Citalopram	CYP2C19
Psychiatry and Addiction Medicine	Clomipramine	CYP2C19
Psychiatry and Addiction Medicine	Clomipramine	CYP2D6
Psychiatry and Addiction Medicine	Desipramine	CYP2D6
Psychiatry and Addiction Medicine	Doxepin	CYP2C19
Psychiatry and Addiction Medicine	Doxepin	CYP2D6
Psychiatry and Addiction Medicine	Escitalopram	CYP2C19
Psychiatry and Addiction Medicine	Fluoxetine	CYP2D6
Psychiatry and Addiction Medicine	Fluvoxamine	CYP2D6
Psychiatry and Addiction Medicine	Iloperidone	CYP2D6
Psychiatry and Addiction Medicine	Imipramine	CYP2C19
Psychiatry and Addiction Medicine	Imipramine	CYP2D6
Psychiatry and Addiction Medicine	Nortriptyline	CYP2D6
Psychiatry and Addiction Medicine	Paroxetine	CYP2D6
Psychiatry and Addiction Medicine	Pimozide	CYP2D6
Psychiatry and Addiction Medicine	Sertraline	CYP2C19
Psychiatry and Addiction Medicine	Trimipramine	CYP2C19
Psychiatry and Addiction Medicine	Trimipramine	CYP2D6
Transplantation	Tacrolimus	CYP3A5



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Anesthesia ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Anesthesia	Desflurane	RYR1/CACNA1S
Anesthesia	Enflurane	RYR1/CACNA1S
Anesthesia	Halothane	RYR1/CACNA1S
Anesthesia	Isoflurane	RYR1/CACNA1S
Anesthesia	Sevoflurane	RYR1/CACNA1S
Anesthesia	Succinylcholine	RYR1/CACNA1S



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Cancer ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Cancer	Azathioprine	TPMT/NUDT15
Cancer	Capecitabine	DPYD
Cancer	Cisplatin	ACYP2
Cancer	Daunorubicin	RARG/UGT1A6/SLC28A3
Cancer	Doxorubicin	RARG/UGT1A6/SLC28A3
Cancer	Fluorouracil	DPYD
Cancer	Mercaptopurine	TPMT/NUDT15
Cancer	Thioguanine	TPMT/NUDT15
Cancer	Vincristine	CEP72



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Cardiovascular ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Cardiovascular	Clopidogrel	CYP2C19
Cardiovascular	Propranolol	CYP2D6
Cardiovascular	Simvastatin	CYP3A4
Cardiovascular	Simvastatin	SLCO1B1
Cardiovascular	Warfarin	CYP2C9/VKORC1



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Gastroenterology ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Gastrointestinal (GI)	Ondansetron	CYP2D6



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Gaucher ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Gaucher Disease	Eliglustat	CYP2D6



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Hematology ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Hematology	Eltrombopag	F5



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Infectious Disease ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Infectious Disease	Atazanavir	UGT1A1
Infectious Disease	Chloroquine	G6PD
Infectious Disease	Dapsone	G6PD
Infectious Disease	Primaquine	G6PD
Infectious Disease	Proguanil	CYP2C19
Infectious Disease	Quinine	G6PD
Infectious Disease	Sulfamethoxazole	G6PD
Infectious Disease	Tafenoquine	G6PD
Infectious Disease	Voriconazole	CYP2C19



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Neurology ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Neurology	Fosphenytoin	CYP2C9
Neurology	Phenytoin	CYP2C9

Pain ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Pain	Celecoxib	CYP2C9
Pain	Codeine	CYP2D6
Pain	Hydrocodone	CYP2D6
Pain	Oxycodone	CYP2D6
Pain	Tramadol	CYP2D6

Psychiatry and Addiction Medicine ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Psychiatry and Addiction Medicine	Amitriptyline	CYP2C19
Psychiatry and Addiction Medicine	Amitriptyline	CYP2D6
Psychiatry and Addiction Medicine	Aripiprazole	CYP2D6
Psychiatry and Addiction Medicine	Atomoxetine	CYP2D6
Psychiatry and Addiction Medicine	Citalopram	CYP2C19
Psychiatry and Addiction Medicine	Clomipramine	CYP2C19
Psychiatry and Addiction Medicine	Clomipramine	CYP2D6
Psychiatry and Addiction Medicine	Desipramine	CYP2D6
Psychiatry and Addiction Medicine	Doxepin	CYP2C19
Psychiatry and Addiction Medicine	Doxepin	CYP2D6
Psychiatry and Addiction Medicine	Escitalopram	CYP2C19
Psychiatry and Addiction Medicine	Fluoxetine	CYP2D6
Psychiatry and Addiction Medicine	Fluvoxamine	CYP2D6
Psychiatry and Addiction Medicine	Iloperidone	CYP2D6
Psychiatry and Addiction Medicine	Imipramine	CYP2C19
Psychiatry and Addiction Medicine	Imipramine	CYP2D6
Psychiatry and Addiction Medicine	Nortriptyline	CYP2D6
Psychiatry and Addiction Medicine	Paroxetine	CYP2D6
Psychiatry and Addiction Medicine	Pimozide	CYP2D6
Psychiatry and Addiction Medicine	Sertraline	CYP2C19
Psychiatry and Addiction Medicine	Trimipramine	CYP2C19
Psychiatry and Addiction Medicine	Trimipramine	CYP2D6



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Transplantation ACH-PGx Panel Drug:Gene List

Condition/Panel	Drug	Gene
Transplantation	Tacrolimus	CYP3A5