Supplementary Table: Official full names of pharmacogenes, ontology, biological function, and gene ID as seen in the National Center for Biotechnology Information (NCBI) database.

Symbol	Gene Name	Gene Ontology	Biological function	Gene ID as seen in NCBI
ABCG2	ATP binding cassette subfamily G member 2 (Junior blood group)	Plasma Membrane	transporter	9429
ACE	angiotensin I converting enzyme	Plasma Membrane	enzyme	1636
ADD1	adducin 1	Plasma Membrane	transporter	118
ADRB2	adrenoceptor beta 2	Plasma Membrane	receptor	154
APOE	apolipoprotein E	Extracellular Space	transporter	348
ATIC	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase	Cytoplasm	enzyme	471
CACNA1S	calcium voltage-gated channel subunit alpha1 S	Plasma Membrane	ion channel	779
CES1	carboxylesterase 1	Cytoplasm	enzyme	1066
CFTR	CF transmembrane conductance regulator	Plasma Membrane	ion channel	1080
CHRNA5	cholinergic receptor nicotinic alpha 5 subunit	Plasma Membrane	receptor	1138
CPS1	carbamoyl-phosphate synthase 1	Cytoplasm	enzyme	1373
CYP2A6	cytochrome P450 family 2 subfamily A member 6	Cytoplasm	enzyme	1548
CYP2B6	cytochrome P450 family 2 subfamily B member 6	Cytoplasm	enzyme	1555
CYP2C9	cytochrome P450 family 2 subfamily C member 9	Cytoplasm	enzyme	1559
CYP2C19	cytochrome P450 family 2 subfamily C member 19	Cytoplasm	enzyme	1557
CYP2D6	cytochrome P450 family 2 subfamily D member 6	Cytoplasm	enzyme	1565
СҮРЗА4	cytochrome P450 family 3 subfamily A member 4	Cytoplasm	enzyme	1576
СҮРЗА5	cytochrome P450 family 3 subfamily A member 5	Cytoplasm	enzyme	1577
CYP4F2	cytochrome P450 family 4 subfamily F member 2	Cytoplasm	enzyme	8529
DPYD	dihydropyrimidine dehydrogenase	Cytoplasm	enzyme	1806

EGFR	epidermal growth factor receptor	Plasma	receptor	1956
EGFN	epidermai growth factor receptor	Membrane	Гесертог	1930
FCGR3A	Fc fragment of IgG receptor IIIa	Plasma Membrane	receptor	2214
FVL (F5)	Factor V Leiden	Extracellular Space	coagulation cofactor	2153
GBA	glucosylceramidase beta	Cytoplasm	enzyme	2629
G6PD	glucose-6-phosphate dehydrogenase	Cytoplasm	enzyme	2539
HLA-A	major histocompatibility complex, class I, A	Plasma Membrane	antigen presentation	3105
HLA-B	major histocompatibility complex, class I, B	Plasma Membrane	antigen presentation	3106
HLA-C	major histocompatibility complex, class I, C	Plasma Membrane	antigen presentation	3107
HLA- DPB1	major histocompatibility complex, class II, DP beta 1	Plasma membrane	antigen presentation	3115
HLA-DRB1	major histocompatibility complex, class II, DR beta 1	Plasma membrane	antigen presentation	3123
HPRT1	hypoxanthine phosphoribosyltransferase 1	Cytoplasm	enzyme	3251
IFNL3 (IL28B)	interferon lambda 3	Extracellular Space	cytokine	282617
IFNL4	interferon lambda 4	Cytoplasm	cytokine	101180976
ITPA	inosine triphosphatase	Cytoplasm	enzyme	3704
KIF6	kinesin family member 6	Nucleus	microtubule-based movement	221458
MTHFR	methylenetetrahydrofolate reductase	Cytoplasm	enzyme	4524
MT-RNR1	mitochondrially encoded 12S RNA	Cytoplasm	insulin sensitivity	4549
NACC			regulator	
NAGS	N-acetylglutamate synthase	Cytoplasm	•	162417
NAGS NAT2	N-acetylglutamate synthase N-acetyltransferase 2	Cytoplasm Cytoplasm	regulator	162417 10
	. –		regulator enzyme	
NAT2	N-acetyltransferase 2	Cytoplasm	regulator enzyme enzyme	10
NAT2 NUDT15	N-acetyltransferase 2 nudix hydrolase 15	Cytoplasm Cytoplasm	regulator enzyme enzyme enzyme	10 55270
NAT2 NUDT15 OTC	N-acetyltransferase 2 nudix hydrolase 15 ornithine carbamoyltransferase DNA polymerase gamma, catalytic	Cytoplasm Cytoplasm Cytoplasm	regulator enzyme enzyme enzyme enzyme	10 55270 5009
NAT2 NUDT15 OTC POLG	N-acetyltransferase 2 nudix hydrolase 15 ornithine carbamoyltransferase DNA polymerase gamma, catalytic subunit	Cytoplasm Cytoplasm Cytoplasm Cytoplasm	regulator enzyme enzyme enzyme enzyme enzyme enzyme	10 55270 5009 5428
NAT2 NUDT15 OTC POLG	N-acetyltransferase 2 nudix hydrolase 15 ornithine carbamoyltransferase DNA polymerase gamma, catalytic subunit ryanodine receptor 1 sodium voltage-gated channel alpha	Cytoplasm Cytoplasm Cytoplasm Cytoplasm Cytoplasm Plasma	regulator enzyme enzyme enzyme enzyme enzyme ion channel	10 55270 5009 5428 6261
NAT2 NUDT15 OTC POLG RYR1 SCN1A	N-acetyltransferase 2 nudix hydrolase 15 ornithine carbamoyltransferase DNA polymerase gamma, catalytic subunit ryanodine receptor 1 sodium voltage-gated channel alpha subunit 1	Cytoplasm Cytoplasm Cytoplasm Cytoplasm Cytoplasm Plasma Membrane Plasma	regulator enzyme enzyme enzyme enzyme enzyme ion channel ion channel	10 55270 5009 5428 6261 6323
NAT2 NUDT15 OTC POLG RYR1 SCN1A SLC19A1	N-acetyltransferase 2 nudix hydrolase 15 ornithine carbamoyltransferase DNA polymerase gamma, catalytic subunit ryanodine receptor 1 sodium voltage-gated channel alpha subunit 1 solute carrier family 19 member 1 solute carrier organic anion	Cytoplasm Cytoplasm Cytoplasm Cytoplasm Cytoplasm Plasma Membrane Plasma Membrane Plasma	regulator enzyme enzyme enzyme enzyme enzyme ion channel ion channel transporter	10 55270 5009 5428 6261 6323 6573

		Space		
TPMT	thiopurine S-methyltransferase	Cytoplasm	enzyme	7172
UGT1A1	UDP glucuronosyltransferase family 1 member A1	Cytoplasm	enzyme	54658
VKORC1	vitamin K epoxide reductase complex subunit 1	Cytoplasm	enzyme	79001