

Nouveau SNP	Gene	Transcript	Nucleotide_change	Amino_Acid_change	dbSNP_rs	Info sup.
x	ABCB1	NM_000927.4	c.-129T>C		rs3213619	
x			c.61A>G	p.Asn21Asp	rs9282564	
x			c.1199G>A	p.Ser400Asn	rs2229109	
			c.3435C>T	p.Ile1145Ile	rs1045642	
x			c.1236T>C	p.Gly412Gly	rs1128503	
			c.2677G>T	p.Ala893Ser	rs2032582	
x			c.210G>A	p.Gly70Gly	rs2214102	
			c.2677G>A	p.Ala893Thr	rs2032582	
x	ABCC2	NM_000392.3	c.1249G>A	p.Val417Ile	rs2273697	
x			c.3563T>A	p.Val1188Glu	rs17222723	
x			c.3972C>T	p.Ile1324Ile	rs3740066	
x			c.-1019A>G		rs2804402	
x			c.-24C>T		rs717620	
x	ABCG2	NM_004827.2	c.34G>A	p.Val12Met	rs2231137	
			c.421C>A	p.Gln141Lys	rs2231142	
	APOE	NM_000041.3	c.388T>C	p.Cys130Arg	rs429358	
			c.526C>T	p.Arg176Cys	rs7412	
	ANKK1	NM_178510.2	c.2137G>A	p.Glu713Lys	rs1800497	
	COMT	NM_000754.3	c.322G>A	p.Val108Met	rs4680	
x	CES1	NM_001025194	c.428G>A	p.Gly143Glu	rs71647871	
x	CES2	NM_003869.5	c.809G>A	p.Arg270His	rs8192924	
x			c.-171C>G		rs11075646	
	CYP1A2	NG_055245.1	g.1549G>A		rs2069514	CYP1A2*1C
			g.5246C>A		rs762551	CYP1A2*1F
x		NM_000761.1	c.138G>A	p.Trp46*	rs539368728	
			c.1548C>T	p.Asn516Asn	rs2470890	CYP1A2*1 A
			c.1156A>G	p.Ile386Val	rs72547516	CYP1A2*4
			c.-1635delT		rs35694136	CYP1A2*1
			c.-10+103T>G		rs2069526	CYP1A2*1
			c.-10+113C>T		rs12720461	CYP1A2*1K
			c.125C>G	p.Pro42Arg	rs72547511	CYP1A2*15

		NM_000701.4	c.558C>T	p.Phe186Leu	rs72547513	CYP1A2*11
			c.1042G>A	p.Asp348Asn	rs56276455	CYP1A2*3
			c.1130G>A	p.Arg377Pro	rs72547515	CYP1A2*16
			c.1217G>A	p.Cys406Tyr	rs55889066	CYP1A2*5
			c.1253+1G>A		rs56107638	CYP1A2*7
			c.1291C>T	p.Arg431Trp	rs28399424	CYP1A2*6
			c.1367G>A	p.Arg456His	rs72547517	CYP1A2*8
x	CYP2B6	NM_000767.4	c.216G>C	p.Pro72Pro	rs2279341	
x			c.54C>A	p.Leu18Leu	rs150742423	
x			c.785A>G	p.Lys262Arg	rs2279343	CYP2B6*4A
			c.1459C>T	p.Arg487Cys	rs3211371	CYP2B6*5
x			c.547G>A	p.Val183Ile	rs58871670	
x			c.78C>T	p.Thr26Thr	rs139980085	
			c.136A>G	p.Met46Val	rs35303484	CYP2B6*11
x			c.62A>T	p.Gln21Leu	rs34883432	
x			c.1172T>A	p.Ile391Asn	rs35979566	
x			c.516G>T	p.Gln172His	rs3745274	CYP2B6*9
x			c.64C>T	p.Arg22Cys	rs8192709	CYP2B6*10
x			c.758G>A	p.Arg253His	rs373086625	
x			c.1332G>A	p.Ala444Ala	rs775699069	
			c.-82T>C		rs34223104	CYP2B6*22
			c.983T>C	p.Ile328Thr	rs28399499	CYP2B6*16/*18
			c.1132C>T	p.Arg378Ter	rs34097093	CYP2B6*28
	CYP2C8	NM_001198854	c.890A>G	p.Lys297Arg	rs10509681	CYP2C8*3
			c.499A>T	p.Ile167Phe	rs11572103	CYP2C8*2
x			c.486C>G	p.Ile162Met	rs1058930	CYP2C8*4
			c.1075A>C	p.Ile359Leu	rs1057910	CYP2C9*3
			c.449G>A	p.Arg150His	rs7900194	rs7900194A, CYP2C9*8
			c.449G>T	p.Arg150Leu	rs7900194	rs7900194T, CYP2C9*27
			c.430C>T	p.Arg144Cys	rs1799853	CYP2C9*2
			c.1003C>T	p.Arg335Trp	rs28371685	CYP2C9*11
			c.55C>A	p.Leu19Ile	rs67807361	CYP2C9*7
			c.269T>C	p.Leu90Pro	rs72558187	CYP2C9*13

	CYP2C9	NM_000771.3	c.485C>A	p.Ser162*	rs72558190	CYP2C9*15
			c.752A>G	p.His251Arg	rs2256871	CYP2C9*9
			c.815A>G	p.Glu272Gly	rs9332130	CYP2C9*10
			c.817delA	p.Lys273Argfs	rs9332131	CYP2C9*6
			c.895A>G	p.Thr299Ala	rs72558192	CYP2C9*16
			c.1076T>C	p.Ile359Thr	rs56165452	CYP2C9*4
			c.1080C>G	p.Asp360Glu	rs28371686	CYP2C9*5
x			c.1465C>T	p.Pro489Ser	rs9332239	CYP2C9*12
x			c.374G>A	p.Arg125His	rs72558189	rs72558189A, CYP2C9*14
x			c.1144C>T	p.Pro382Ser		C09C1144T, CYP2C9*17
x			c.1190A>C	p.Asp397Ala	rs72558193	CYP2C9*18
x			c.353_362del	p.Lys118fs	rs1304490498	CYP2C9*25
x			c.389C>G	p.Thr130Arg	rs200965026	rs200965026G, CYP2C9*26
x			c.389C>T	p.Thr130Met	rs200965026	rs200965026T, CYP2C9*44
x			c.641A>T	p.Gln214Leu		C09A641T, CYP2C9*28
x	c.1429G>A	p.Ala477Thr	rs781583846	CYP2C9*30		
x	c.395G>A	p.Arg132Gln	rs200183364	CYP2C9*33		
x	c.374G>T	p.Arg125Leu	rs72558189	rs72558189T + c.430C>T, CYP2C9*35		
x	CYP2C19	NM_000769.2	c.990C>T	p.Val330Val	rs3758580	
			c.681G>A	p.Pro227Pro	rs4244285	CYP2C19*2
			c.-806C>T	NA	rs12248560	CYP2C19*17
			c.1A>G	p.Met1Val	rs28399504	CYP2C19*4
			c.276G>C	p.Glu92Asp	rs17878459	CYP2C19*2B
			c.358T>C	p.Trp120Arg	rs41291556	CYP2C19*6
			c.395G>A	p.Arg132Gln	rs72552267	CYP2C19*8
			c.431G>A	p.Arg144His	rs17884712	CYP2C19*9
			c.636G>A	p.Trp212Ter	rs4986893	CYP2C19*3
			c.680C>T	p.Pro227Leu	rs6413438	CYP2C19*10
			c.819+2T>A		rs72558186	CYP2C19*7
			c.1297C>T	p.Arg433Trp	rs56337013	CYP2C19*5
x			c.332-23A>G		rs12769205	without c.681G>A, CYP2C19*35
			c.31G>A	p.Val11Met	rs769258	CYP2D6*35
			c.100C>T	p.Pro34Ser	rs1065852	CYP2D6*10

	CYP2D6	NM_000106.5	c.406G>A	p.Val136Met	rs61736512	CYP2D6*29/*70
			c.408C>G	p.Val136Val	rs1058164	
			c.454delT	p.Trp152fs	rs5030655	CYP2D6*6
			c.506-1G>A		rs3892097	CYP2D6*4
			c.775delA	p.Arg259Glyfs	rs35742686	CYP2D6*3
			c.841_843delAAG	p.Lys281del	rs5030656	CYP2D6*9
			c.886T>C	p.Arg296Cys	rs16947	CYP2D6*2
			c.971A>C	p.His324Pro	rs5030867	CYP2D6*7
x			c.358T>A	p.Phe120Ile	rs1135822	CYP2D6*49
			c.985+39G>A	NA	rs28371725	CYP2D6*41
			c.1012G>A	p.Val338Met	rs59421388	CYP2D6*29
			c.1457C>G	p.Ser486Thr	rs1135840	CYP2D6*2
			c.632_633insG	p.Leu213Thrfs	rs72549354	CYP2D6*20
			c.505G>A	p.Gly169Arg	rs5030865	rs5030865A, CYP2D6*14
			c.505G>T	p.Gly169*	rs5030865	rs5030865T, CYP2D6*8
			c.320C>T	p.Thr107Ile	rs28371706	CYP2D6*17
			c.181-1G>C		rs201377835	CYP2D6*11
			c.137-138insT		rs774671100	CYP2D6*15
			c.124G>A	p.Gly42Arg	rs5030862	CYP2D6*12
			c. -1584G>C		rs1080985	CYP2D6*2A
	CYP3A4	NM_017460.5	c.522-191C>T	NA	rs35599367	CYP3A4*22
			c.1461_1462insA	p.Pro488Thrfs	rs67666821	CYP3A4*20
			c.1334T>C	p.Met445Thr	rs4986910	CYP3A4*3
			c.1247 C>T	p.Pro416Leu	rs4986909	CYP3A4*13
			c.1117 C>T	p.Leu373Phe	rs12721629	CYP3A4*12
			c.830_831insA	p.Asp277Glufs	rs4646438	CYP3A4*6
			c.664T>C	p.Ser222Pro	rs55785340	CYP3A4*2
			c.566 T>C	p.Phe189Ser	rs4987161	CYP3A4*17
			c.485 G>A	p.Arg162Gln	rs4986907	CYP3A4*15
			c.-392A>G		rs2740574	CYP3A4*1B
x			c.352A>G	p.Ile118Val	rs55951658	CYP3A4*4
x			c.653C>G	p.Pro218Arg	rs55901263	CYP3A4*5
x			c.1023+12G>A		rs2242480	CYP3A4*1G

x			c.389G>A	p.Arg130Gln	rs72552799	CYP3A4*8		
x			c.1088C>T	p.Thr363Met	rs67784355	CYP3A4*11		
x			c.554C>G	p.Thr185Ser	rs12721627	CYP3A4*16		
x			c.878T>C	p.Leu293Pro	rs28371759	CYP3A4*18A		
x			c.802C>T	p.Arg268*	rs138105638	CYP3A4*26		
x		NG_008421.1	g.28311C>A		rs28371760	CYP3A4*18B		
	CYP3A5	NM_000777.4	c.1193C>A	p.Thr398Asn	rs28365083	CYP3A5*2		
			c.92_93insG	p.Leu32Thrfs	rs200579169	CYP3A5*3B		
			c.88C>T	p.His30Tyr	rs28383468	CYP3A5*3B		
			c.219-237A>G	NA	rs776746	CYP3A5*3/*10		
			c.1035_1036insT	p.Thr346fs	rs41303343	CYP3A5*7		
			c.*14C>T		rs15524	CYP3A5*3/*10		
			c.1337T>C	p.Phe446Ser	rs41279854	CYP3A5*10		
			c.1009G>A	p.Ala337Thr	rs28383479	CYP3A5*9		
			c.624G>A	p.Lys208	rs10264272	CYP3A5*6		
			c.82C>T	p.Arg28Cys	rs55817950	CYP3A5*8		
x					c.432+2T>C		rs55965422	CYP3A5*5
x			CYP4F2	NM_001082	c.34T>G	p.Trp12Gly	rs3093105	
x					c.165A>G	p.Pro55Pro	rs3093106	
x	c.1297G>A	p.Val433Met			rs2108622	CYP4F2 *3		
x	c.1029C>T	p.His343His			rs2074900			
x	DPYD	NM_000110.3	c.1679T>G	p.Ile560Ser	rs55886062	DPYD*13		
x			c.2846A>T	p.Asp949Val	rs67376798	reduced act.		
x			c.1905+1G>A	NA	rs3918290	DPYD*2A		
x			c.1236G>A	p.Glu412Glu	rs56038477	reduced act.		
x			c.1627A>G	p.Ile543Val	rs1801159	DPYD*5		
x			c.1601G>A	p.Ser534Asn	rs1801158	DPYD*4		
x			c.2194G>A	p.Val732Ile	rs1801160	DPYD*6		
			c.85T>C	p.Cys29Arg	rs1801265	DPYD*9A		
x			c.1898delC	p.Pro633fs	rs72549303	DPYD*3		
x			c.299_302delTCAT	p.Phe100fs	rs72549309	DPYD*7		
x			c.1156G>T	p.Glu386*	rs78060119	DPYD*12		
x					c.1129-5923C>G		rs75017182	

x			c.703C>T	p.Arg235Trp	rs1801266	DPYD*8
			c.2983G>T	p.Val995Phe	rs1801268	DPYD*10
x			c.1003G>T	p.Val335Leu	rs72549306	DPYD*11
x			c.557A>G	p.Tyr186Cys	rs115232898	
x	TPMT	NM_000367.3	c.374C>T	p.Ser125Leu	rs200220210	TPMT*12
			c.238G>C	p.Ala80Pro	rs1800462	TPMT*2
			c.460G>A	p.Ala154Thr	rs1800460	TPMT*3B
			c.719A>G	p.Cys240Tyr	rs1142345	TPMT*3C
			c.626-1G>A		rs1800584	TPMT*4
x			c.146T>C	p.Leu49Ser	rs72552740	TPMT*5
x			c.644G>A	p.Arg215His	rs56161402	TPMT*8
x	UGT1A1	NM_000463.2	c.-53 insTA ou del TA, simple ou multiple)		rs3064744	UGT1A1*28 / (TA)7TAA
x			c.-53 insTA ou del TA, simple ou multiple)		rs3064744	UGT1A1*36 / (TA)5TAA
x			c.-53 insTA ou del TA, simple ou multiple)		rs3064744	UGT1A1*37 / (TA)8TAA
x			c.-364C>T		rs887829	UGT1A1*80
x			c.686C>A	p.Pro229Gln	rs35350960	UGT1A1*27
			c.211G>A	p.Gly71Arg	rs4148323	UGT1A1*6
x	UGT1A6	NM_001072	c.541A>G	p.Thr181Ala	rs2070959	UGT1A6*5
x	UGT1A7	NM_019077.2	c.622T>C	p.Trp208Arg	rs11692021	UGT1A7*4
	UGT2B15	NM_001076	c.253T>G	p.Tyr85Asp	rs1902023	UGT2B15*2
	UGT2B7	NM_001074	c.372A>G	p.Arg124Arg	rs28365063	
	VKORC1	NM_024006.5	c.*237G>A		rs7294	
			c.173+1000C>T		rs9934438	
			c.-1639G>A		rs9923231	
x			c.85G>T	p.Val29Leu	rs104894539	Warfarin resistance
x			c.106G>T	p.Asp36Tyr	rs61742245	Warfarin resistance
x			c.121G>T	p.Ala41Ser		Warfarin resistance
x			c.134T>C	p.Val45Ala	rs104894540	Warfarin resistance
x			c.172A>G	p.Arg58Gly	rs104894541	Warfarin resistance
x			c.196G>A	p.Val66Met	rs72547529	Warfarin resistance
x			c.358C>T	p.Leu120=	rs7200749	Warfarin resistance
x			c.383T>G	p.Leu128Arg	rs104894542	Warfarin resistance
	SLCO1B1	NM_006116.4	c.388A>G	p.Asn130Asp	rs2306283	

	SECY1B1	NM_000440.4	c.521T>C	p.Val174Ala	rs4149056	
	MTHFR	NM_005957.5	c.1286A>C	p.Glu429Ala	rs1801131	
			c.665C>T	p.Ala222Val	rs1801133	
	F5 (Leiden)	NM_000130.4	c.1601G>A	p.Arg534Gln	rs6025	
	F2	NM_000506.4	c.*97G>A		rs1799963	
	HTR2A	NM_000621.4	c.102C>T	p.Ser34Ser	rs6313	
			c.-998G>A		rs6311	
			c.614-2211T>C		rs7997012	
	HTR2C	NM_001256760.2	c.-850C>T		rs3813929	
x			c.551-3008C>G		rs1414334	
	OPRM1	NM_001008504.3	c.118A>G	p.Asn40Asp	rs1799971	
	OPRD1	NM_000911.3	c.227+22487T>C		rs2236857	
	OPRK1	NM_000912.5	c.843A>G	p.Ala281Ala	rs702764	
			c.36G>T	p.Pro12Pro	rs1051660	
x	NUDT15	NM_018283.4	c.38_43delGAGTCG	p.13_14GlyVal	rs746071566	NUDT15*1
x	NUDT15*2 or *3	NM_018283.4	c.415C>T	p.Arg139Cys	rs116855232	NUDT15*2 or *3
x	NUDT15*4	NM_018283.4	c.416G>A	p.Arg139His	rs147390019	NUDT15*4
x	NUDT15*5	NM_018283.4	c.52G>A	p.Val18Ile	rs186364861	NUDT15*5
x	MC1R	NM_002386.3	c.451C>T	p.Arg151Cys	rs1805007	
x	POR	NM_000941.2	c.1508C>T	p.Ala503Val	rs1057868	
x			c.188+6405A>G		rs2868177	
x	CYP2E1	NM_000773.3	c.1156-118G>C		rs2070676	CYP2E1*1B
x			c.-1055C>T		rs2031920	CYP2E1*5A
x			c.-1295G>A		rs3813867	CYP2E1*5B
x	NAT2	NM_000015.2	c.341T>C	p.Ile114Thr	rs1801280	NAT2*5
x	GSTP1	NM_000852.3	c.313A>G	p.Ile105Val	rs1695	
x	IFNL4	NR_074079.1	n.429-152G>A		rs12979860	
x	GSTA1	NM_145740.4	c.-579A>G		rs11964968	
x			c.-633G>T		rs4715332	
x			c.-697G>T		rs4715333	
x			c.-1207C>G		rs58912740	