

Additional File 1 - Genotyping Conditions

Table 1. Primer sequences used in the iPlex Gold reaction, Sequenom Mass Array genotyping platform.

GENE	NCBI ID	Primer name	Sequence
<i>ABCB1</i>	rs1045642	Forward	ACGTTGGATGTATGTTGGCCTCCTTTGCTG
		Reverse	ACGTTGGATGACTGCAGCATTGCTGAGAAC
		Extend	CTTCCTTTGCTGCCCTCAC
<i>ABCB1</i>	rs1128503	Forward	ACGTTGGATGCACAGCCACTGTTTCCAACC
		Reverse	ACGTTGGATGGTTTTTTTCTCACTCGTCCTG
		Extend	CCTATGCACCTTCAGGTTTCAG
<i>ABCB1</i>	rs2032582	Forward	ACGTTGGATGGCAATAGCAGGAGTTGTTGA
		Reverse	ACGTTGGATGCATATTTAGTTTGACTCACC
		Extend	AGATAAGAAAGAACTAGAAAGGT
<i>ADH1B</i>	rs1229984	Forward	ACGTTGGATGCTGAATCTGAACAGCTTCTC
		Reverse	ACGTTGGATGTTGCCACTAACCACGTGGTC
		Extend	GTGGCTGTAGGAATCTGTC
<i>ADH1C</i>	rs698	Forward	ACGTTGGATGGGCTAAGAAGTTTTCACTGG
		Reverse	ACGTTGGATGGAAGCAGGTCAAATCCTTCA
		Extend	CACTGGATGCATTAATAACAAAT
<i>ADRB2</i>	rs1042714	Forward	ACGTTGGATGCAGGACGATGAGAGACATGA
		Reverse	ACGTTGGATGGAAGCCATGCGCCGGACCA
		Extend	CCACACCTCGTCCCTTT
<i>COMT</i>	rs4680	Forward	ACGTTGGATGTTTTCCAGGTCTGACAACGG
		Reverse	ACGTTGGATGACCCAGCGGATGGTGGATTT
		Extend	TGCACACCTTGTCTTCA
<i>CYP2C19</i>	rs4244285	Forward	ACGTTGGATGCACTTTCCATAAAAGCAAGG
		Reverse	ACGTTGGATGGCAATAATTTTCCCCTATC
		Extend	AAGTAATTTGTTATGGGTTC
<i>CYP2C19</i>	rs4986893	Forward	ACGTTGGATGAACATCAGGATTGTAAGCAC
		Reverse	ACGTTGGATGGACTGTAAGTGGTTTCTCAG
		Extend	TATTGTAAGCACCCCTG
<i>CYP2C8</i>	rs11572080	Forward	ACGTTGGATGTGAGCTTCCTCTTGAACACG
		Reverse	ACGTTGGATGAAGAGATGGAAGGAGATCCG
		Extend	CTTTAACACGGTCCTCAATGCTC
<i>CYP3A5</i>	rs776746	Forward	ACGTTGGATGACCCAGCTTAACGAATGCTC
		Reverse	ACGTTGGATGGTAATGTGGTCCAAACAGGG
		Extend	AATGTAAAGAGCTCTTTTGTCTTCA

Table 1 (Continued). Primer sequences used in the iPlex Gold reaction, Sequenom Mass Array genotyping platform.

GENE	NCBI ID	Primer name	Sequence
CYP2D6	rs3892097	Forward	ACGTTGGATGACCCCTTACCCGCATCTCC
		Reverse	ACGTTGGATGTGCTCACGGCTTTGTCCAAG
		Extend	TACACGCATCTCCCACCCCA
DPYD	rs67376798	Forward	ACGTTGGATGCAACGTAGAGCAAGTTGTGG
		Reverse	ACGTTGGATGCTTACCTGGTAGCCAGAATC
		Extend	GATCAAGTTGTGGCTATGATTG
DPYD	rs1801265	Forward	ACGTTGGATGATGCTGTCTTTAGAGTATC
		Reverse	ACGTTGGATGGTCTAATTTCTTGGCCGAAG
		Extend	CAAACATCATGCAACTCTG
DPYD	rs55886062	Forward	ACGTTGGATGAACTCCAGCCACCAGCACAT
		Reverse	ACGTTGGATGGAGAAAGTTTGGTGAGGGC
		Extend	CCACTCCAGCCACCAGCACATCAATGA
F5	rs6025	Forward	ACGTTGGATGCATCGCCTCTGGGCTAATAG
		Reverse	ACGTTGGATGCTTCAAGGACAAAATACCTG
		Extend	TAAGAGCAGATCCCTGGACAGGC
GSTP1	rs1695	Forward	ACGTTGGATGTGGTGGACATGGTGAATGAC
		Reverse	ACGTTGGATGAACCCTGGTGCAGATGCTC
		Extend	ACCTCCGCTGCAAATAC
KCNJ11	rs5219	Forward	ACGTTGGATGTCCGCTGGCGGGCACGGTA
		Reverse	ACGTTGGATGGGCATCATCCCCGAGGAATA
		Extend	GGGCACGGTACCTGGGCT
TPMT	rs1800462	Forward	ACGTTGGATGCCCTCTATTTAGTCATTG
		Reverse	ACGTTGGATGACACCAACTACACTGTGTCC
		Extend	AAATGTATGATTTTATGCAGGTTT
TPMT	rs1800460	Forward	ACGTTGGATGGCAAATTTGACATGATTTGGG
		Reverse	ACGTTGGATGGACAGCTAAACAAAAAAG
		Extend	CATGATTTGGGATAGAGGA
TPMT	rs1800584	Forward	ACGTTGGATGGAATCCCTGATGTCATTCTTC
		Reverse	ACGTTGGATGAGCATCAACCTTCTCAAGAC
		Extend	TGTTACTCTTTCTTGTTCA
TPMT	rs1142345	Forward	ACGTTGGATGCCTCAAAAACATGTCAGTGTG
		Reverse	ACGTTGGATGGGGAATTGACTGTCTTTTG
		Extend	GTCTCATTTACTTTTCTGTAAGTAGA

Table 2. Primers and restriction enzymes used in the RFLPs genotyping method.

Gene	NCBI ID	Primer name	Sequence	Restriction Enzyme
<i>ADH1B</i>	rs2066702	Forward	AGCTGGGATCACAGACAGATTT	<i>AlwNI</i>
		Reverse	GGCATCTCTATTGCCTCAAAAC	
<i>ADRB1</i>	rs1801252	Forward	CCGGGCTTCTGGGGTGTTC	<i>Eco0109I</i>
		Reverse	GGCGAGGTGATGGCGAGGTAGC	
<i>ADRB2</i>	rs1042713	Forward	CTTCTTGCTGGCACGCAAT	<i>BsrDI</i>
		Reverse	CCAGTGAAGTGATGAAGTAGTTGG	
<i>CYP2C8</i>	rs10509681	Forward	CTGCTGAGAAAGGCATGAAG	<i>XmnI</i>
		Reverse	CTTCCGTGCTACATGATGACG	
<i>CYP2C9</i>	rs1799853	Forward	GTATTTTGGCCTGAAACCATA	<i>AvaII</i>
		Reverse	GGCCTTGGTTTTTCTCAACTC	
<i>CYP2C9</i>	rs1057910	Forward	TGCACGAGGTCCAGAGGTAC	<i>KpnI</i>
		Reverse	ACAAACTTACCTTGGGAATGAGA	
<i>CYP2D6</i>	rs35742686	Forward	GGTCAGTGGTAAGGACAGGCAGGC	<i>StuI</i>
		Reverse	CC TCTCGGGGGGGCTGGGCTGGGTCC CAGGTCATCC	
<i>CYP2D6</i>	rs5030655	Forward	TGCGCAACTTGGGCCTGGGCAAGA	<i>SpeI</i>
		Reverse	AGTCGCTGGACTAG CTCGGGAGCTCGCCTTGCAGAGAC TC	
<i>CYP2D6</i>	rs5030656	Forward	AGGCCTTCCTGGCAGAGATGAAG	<i>MboII</i>
		Reverse	AAAATGCACTGTTTCCCAGA	
<i>CYP2D6</i>	rs16947	Foward	GCTGGGGCCTGAGACTT	<i>HhaI</i>
		Reverse	GGCTATCACCAGGGGCTGGTGCT	
<i>CYP2D6</i>	rs1065852	Foward	GCTGGGGCCTGAGACTT	<i>HhaI</i>
		Reverse	GGCTATCACCAGGGGCTGGTGCT	
<i>CYP3A4</i>	rs2740574	Forward	GGAATGAGGACAGCCATAGAGACA	<i>MboII</i>
		Reverse	AGGGGA CCTTTCAGCTCTGTGTTGCTCTTTGC	
<i>DPYD</i>	rs3918290	Foward	TGCAAATATGTGAGGAGGGACC	<i>HpyCHJ4 IV</i>
		Reverse	CAGCAAAGCAACTGGCAGATTC	
<i>GSTT1</i>	deletion	Forward	TTCCTTACTGGTCCTCACATC	†
		Reverse	TCACCGGATCATGGCCAGCA	
<i>MTHFR</i>	rs1801131	Forward	AGAGCAAGTCCCCCAAGGA	<i>MboII</i>
		Reverse	CTTTGTGACCATTCGGTTTG	
<i>MTHFR</i>	rs1801133	Forward	GAAGCAGGGAGCTTTGAGG	<i>HinfI</i>
		Reverse	ACGATGGGGCAAGTGATG	
<i>TYMS</i>	rs34489327	Forward	CAAATCTGAGGGAGCTGAGT	<i>DraI</i>
		Reverse	CAGATAAGTGGCAGTACAGA	

Table 2 (Continued). Primers and restriction enzymes used in the RFLPs genotyping method.

Gene	NCBI ID	Primer name	Sequence	Restriction Enzyme
<i>TYMS</i>	rs34743033	Forward	GTGGCTCCTGCGTTTCCCCC	²
		Reverse	CCAAGCTTGGCTCCGAGCCG GCCACAGGCATGGCGCCGG	
<i>TYMS</i>	rs2853542	Forward	GTGGCTCCTGCGTTTCCCCC	HaeIII
		Reverse	CCAAGCTTGGCTCCGAGCCG GCCACAGGCATGGCGCCGG	
<i>NAT2</i>	rs1799930	Forward	GGAACAAATTGGACTTGG	TaqαI
		Reverse	TCTAGCATGAATCACTCTGC	
<i>NAT2</i>	rs1799931	Forward	GGAACAAATTGGACTTGG	BamHI
		Reverse	TCTAGCATGAATCACTCTGC	
<i>NAT2</i>	rs1799929	Forward	GGAACAAATTGGACTTGG	KpnI
		Reverse	TCTAGCATGAATCACTCTGC	
<i>NAT2</i>	rs1801279	Forward	GGAACAAATTGGACTTGG	MspI
		Reverse	TCTAGCATGAATCACTCTGC	
<i>VKORC1</i>	rs9923231	Forward	AGTTTGGACTACAGGTGCCT	MspI
		Reverse	GCCAGCAGGAGAGGGAAATA	

¹It was detected by presence/absence of the amplified PCR product, given that this polymorphism is insertion/deletion in the *GSTT1* gene.

²It was detected by fragment size differences of the 28pb tandem repeats.

Table 3. Primers used in the sequencing method.

Gene	NCBI ID	Primer name	Sequence
<i>UGT1A1</i>	rs8175347	Forward	TCTCTGAAAGTGAAGTCCCTGCTACCTT
		Reverse	AAACATTATGCCCCGAGACTAACAA