iPLEX® ADME PGx panel

Available Now

Investigate pharmacogenetic biomarkers associated with drug metabolism with high accuracy and rapid results.

The iPLEX ADME PGx panel contains a set of pre-designed SNP and CNV assays for use in the investigation of polymorphisms with demonstrated relevance to drug metabolism.

- Analyze 192 mutations in 36 pharmacogenetically relevant genes
- Obtain biologically relevant data on >99% of assays in Pharma ADME Core list*
- Use as little as 80 ng of DNA per sample
- Identify SNPs, insertions, deletions and copy number variants (CNVs)

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Genes included in the iPLEX ADME PGx panel:

ABCB1	*CYP2E1*	*SLC22A2*
ABCC2	*CYP3A4*	*SLC22A6*
ABCG2	*CYP3A5*	*SLCO1B1*
COMT	*DPYD*	*SLCO1B3*
CYP1A1	*GSTM1*	*SLCO2B1*
CYP1A2	*GSTP1*	*SULT1A1*
CYP2A6	*GSTT1*	*TPMT*
CYP2B6	*GSTT2*	*UGT1A1*
CYP2C19	*NAT1*	*UGT2B15*
CYP2C8	*NAT2*	*UGT2B17*
CYP2C9	*SLC15A2*	*UGT2B7*
CYP2D6	*SLC22A1*	*VKORC1*

See back for complete list of haplotypes.

* list available at http://www.pharmaadme.org/joomla/

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Analysis Method

The iPLEX ADME PGx panel uses Sequenom's iPLEX Gold biochemistry with specific ADME oligo multiplex mixes on the MassARRAY® system. The PGx panel consists of 200 assays in 8 wells requiring 10 ng of input DNA per reaction well from fresh or frozen whole blood or cells. After the sample run, mutations are detected, quantified, and haplotype report is automatically created using the TYPER software.

Equipment and Software Required

- MassARRAY Analyzer 4 System
- NanoDispenser
- TYPER 4.0.20 Software

Ordering Information:

iPLEX ADME PGx panel

Catalog #10226 – 96 Format

Catalog #10227 – 384 Format

- PCR Primers
- Extend Primers
- PCR Reagent Set
- iPLEX Gold Reagent Set
- SpectroCHIP II Resin kit

To place an order, please contact the order desk at orderdesk@sequenom.com, or call (858) 202-9215.

Genes	Haplotypes detected with iPLEX ADME PGx panel (Indistinguishable haplotypes with the current ADME core SNP are indicated in parenthesis)
ABCB1	*1, (*1e;g;h;p), (*2;*12;*15), *4, *6, (*8;*16), (*8A;*16A), *9, (*10;*13;*17), *11, *18
ABCC2	(*1A;*1B;*3), *1C, *2, *4, *5, *6, *7
ABCG2	WT, Q141K, Q126X
COMT+	*1, *2, A, B, C, D, E, F
CYP1A1	*1, *2, *3, *4, *5, *6, *7, *8, *9
CYP1A2	*1A, *1C, *1K, *1L, (*1F;J), *7
CYP2A6	(*1:*8), *1X2b, *2, *5, *6, (*7;*10;*19;*36:*37), (*9;*13;*15), *11, *12, *17, *20, *26 CNV Assay: *4A-H, *1x2A/B (Haplotypes are identified manually)
CYP2B6	*1, (*2;*10), (*6;*7;*19;*20;*29) , *8, *13, (*16;*18), *28 CNV in addition to haplotypes
CYP2C8	*1, *2, *3, *4, *5, *7, *8
CYP2C9	*1, *2, (*3;*18), *4, *5, *6, *8, *9, *10, *11, *12, *13, *15, *25,*27
CYP2C19	*1, (*1B;C;*9), *2, *3, *4, *5A, *5B, *6, *7, *8, *12, *17
CYP2D6	*1A, (*2A;*31;*51), (*2L;*35;*71) , *3, *4, *4M, *6, *7, *8, *9,(*10;*36 ;*37;*47;*49;*52;*54;*57;*65;*72), *11, *12, *14A, *14B, *15, *17, *18, *19, *20, *21A, *21B, *30, *38, *40, *41, *42, *44, *56A, *56B, *58, *64, *69 CNV Assay: *5, *NxN (Haplotypes are identified manually)
CYP2E1	*1, *2, *7
CYP3A4	*1, *2, *6, *20
CYP3A5	*1, *3, *5, *6, *7, (*3K;*10)
DPYD	*1, *2, *7, *10, *8, *9A, *9B
GSTM1	*A, *B CNV in addition to haplotypes
GSTP1	A, B, C, D
GSTT1	CNV only
GSTT2b	CNV only
NAT1	*4, *5, *14, *17, *19, *22, *15, *11
NAT2	*4, *5, *5A, *5C, *5D, *5E, *5G, *5J, *5K, *5P, *6, *6B, *6C, *6E, *6F, (*6I;J), *7A,*7B, *7C, *11, *12, (*12B;E), *12C, *13, *14, *14B;H, *14C, *14D, *14E, *14F, *14G,*14I, *19
SLC15A2	*1, *2, *3
SLC22A1	WT, AAGTTGGT, TGGTAAGT, R61C, C88R, G220V, P283L, R287G, P341L,G401S, M408V, M420X-1, M420X-2, M420X-3, MI420I, G465R
SLC22A2	WT, P54S, M165V, S270A, R400C, K432Q
SLC22A6	WT, R50H
SLCO1B1	(*1A;*4;*7;*8), (*1B;*14), *2, *3, *5, *6, *9, *10, *11, *12, *13, (*15;*16;*17)
SLCO1B3	WT, S112A, M233I
SLCO2B1	WT, S464F
SULT1A1	(*1;*5;*6), (*2;*7), *2A, *3, *4 CNV in addition to haplotypes
TPMT	*1, *2, (*3A;*3D), *3B, *3C, *4, *8
UGT1A1	*1, *6A, *6B,*7, (*27;*28C), *29, *60
UGT2B15	WT, Y85D
UGT2B17	CNV only
UGT2B7	*1, *2
VKORC1	*1, *2, *3, *4

SQ216 ADME Flyer vB (10/19/11)

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