

iPLEX® CYP2C9/VKORC1 Panel



Investigate and Confirm Pharmacogenetic Biomarkers in *CYP2C9* and *VKORC1* with High Accuracy and Rapid Results

The iPLEX® CYP2C9/VKORC1 Panel, for use on the MassARRAY® System, is a set of 51 pre-designed SNP assays for use in the screening of polymorphisms in *CYP2C9*, *VKORC1*, *CYP4F2*, and *GGCX* genes.

- ✓ Analyze 51 mutations in 4 pharmacogenetically relevant genes.
- ✓ Obtain biologically relevant data for most of the known haplotypes for *CYP2C9* and *VKORC1*.
- ✓ Use as little as 30 ng of DNA per sample.
- ✓ Reduce chance of lab mix-ups with a universal PCR pool.

Agena Bioscience also offers the iPLEX PGx Pro Panel, covering 36 key genes known to influence drug metabolism, as well as panels for in depth analysis of *CYP2C19* and *CYP2D6*.

Visit www.agenabioscience.com for more information.

| GENES | HAPLOTYPES INCLUDED IN THE PANEL |
|--------|---|
| CYP2C9 | *1A, *1B, *1C, *1D, *2A, *2B, *2C, *3A, *3B, *4, *5, *6, *7, *8, *9, *10, *11A, *11B, *12, *13, *14, *15, *16, *17, *18, *19, *20, *21, *22, *23, *24, *25, *26, *27, *28, *29, *30, *31, *32, *33, *34 |
| CYP4F2 | 1297G>A |
| VKORC1 | *1, BHT4, *2/H1, H2/H5, *2A, H4, *2B, H6, *3, H7A,*3F, H7B, *4, H8, *7RE, H9, BHT2RE, BHT3 |
| GGCX | 2084+45G>C |

For Research Use Only. Not for use in diagnostic procedures.

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51-20032R2.0 0317

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THE MASSARRAY WORKFLOW

Each sample is subjected to PCR amplification and primer extension with the iPLEX CYP2C9/VKORC1 reagents. The extension products are dispensed onto a SpectroCHIP® Array and detected via MassARRAY mass spectrometry. After the sample run, an automated software report provides the calls and mutation frequency for each sample as well as a confidence score.

THROUGHPUT

The iPLEX CYP2C9/VKORC1 Panel contains multiplexed assays in 3 wells, using 10 ng of input DNA per well. The panel can be run in 96-well format (32 samples per plate) or 384-well format (128 samples per plate). Thirty-two to 1,024 samples can be processed per day, providing flexibility in sample throughput and batching requirements.

PANEL COMPONENTS

| | | |
|---------|--|--|
| AMPLIFY |  | PCR Enzyme PCR Accessory Set CYP2C9/VKORC1 PCR Primers |
| EXTEND |  | iPLEX® Pro Reagent Set CYP2C9/VKORC1 Extend Primers |
| DETECT |  | SpectroCHIP® Array and Clean Resin |
| ANALYZE |  | MassARRAY® Analysis Software |

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