

# Personalised Screening for Chemotoxicity Response

Yourgene® DPYD



The Yourgene® DPYD assay is a simple genotyping test which uses ARMS (Amplification-Refractory Mutation System) technology for the rapid detection of the six clinically relevant variants which lead to reduced dihydropyrimidine dehydrogenase enzyme (DPD) efficiency. This enzyme is encoded by the *DPYD* gene.

5-fluoracil (5-FU) is a chemotherapy agent used to treat a range of cancers including colorectal, head and neck, breast, pancreatic and stomach cancer. Identifying patients with DPD deficiency prior to commencing 5-FU chemotherapy is critical to avoid potentially fatal adverse drug reactions.

## Key Benefits

### DPD deficiency testing for 5-FU therapy response prediction

#### CE-IVDR Certified

- One of the first IVDR certified assays for pharmacogenomics screening providing a high quality, fully validated product that requires minimal validation to fit into your workflow

#### Rapid Workflow

- Post-DNA extraction, the rapid workflow is completed in less than 4 hours
- Rapid results are available to a clinician within one working day

#### Two Tube Assay

- Simple to use; just add DNA
- Minimal hands-on time and fewer reagents to improve economies of testing

#### Reliable Performance

- Optically balanced primers to maximise ease-of-interpretation and reduce analysis burden

#### Compatible with ABI 3130/3500/SeqStudio Genetic Analyser Platforms

- Validated on popular sequencing platforms, facilitating ease of adoption

#### Aligned to clinical guidelines and pathways

- Coverage of clinically actionable variants, as recommended by European Medicines Agency (EMA), European Society for Medical Oncology (ESMO) and Clinical Pharmacogenetic Implementation Consortium (CPIC) guidelines

**The Yourgene® DPYD assay has received IVDR certification!**

A product with IVDR certification enables clinician and patient confidence in a high quality test - where accuracy matters

**Yourgene®  
DPYD**

## Clinical Performance

Performance you can rely on

**100%**

**Sensitivity & Specificity**



# Personalised Screening for Chemotoxicity Response

## Yourgene® DPYD



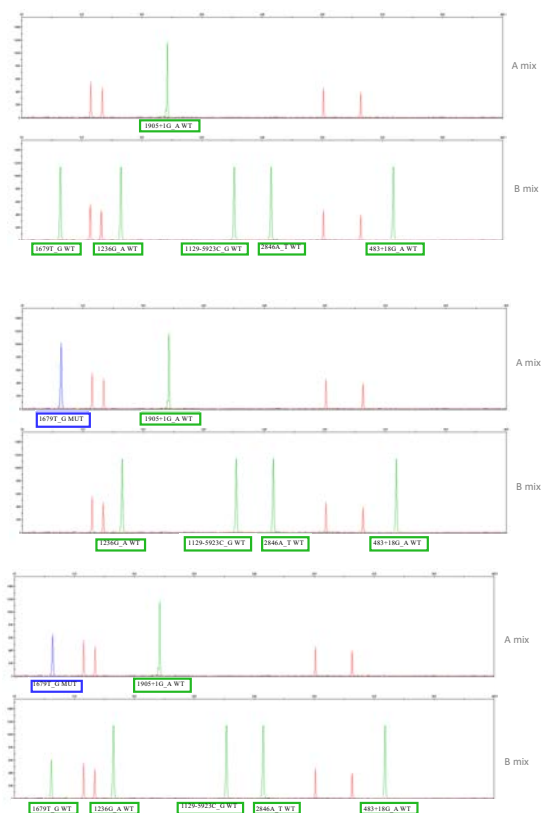
### Data Interpretation

#### Normal Result

In a normal result, all alleles detected are homozygous wildtype. In this example, the sample is wildtype for all markers detected:

\*2A – green WT peak present in the A mix.

\*13, c.2846A>T, HapB3 – Green WT peaks present in the B mix



#### Homozygous Result

In an individual homozygous for a specific mutation, the marker will only display a single mutant peak and no wildtype. In this example, the sample is homozygous mutant for 1679 T>G (blue peak), with the remaining markers showing a homozygous wildtype genotype

#### Heterozygous Result

If an individual is heterozygous for a marker, two peaks will be detected. In this example, the sample is heterozygous mutant for c.1679 T>G, with the remaining markers showing a homozygous wildtype genotype

Visit our website to view the mutations covered by our DPYD Kit

### Ordering Information

Scan the QR code to view to view our **DPYD Resources** including videos and articles



Product Name	Part Code	Description	Pack Size
Yourgene® DPYD	ONDYDB1	Yourgene® DPYD for *2A, *13, c.2846A>T, HapB3 testing	25 Tests

Yourgene®DPYD assay previously known as Elucigene® DPYD assay

Yourgene® DPYD is also available as Research Use Only (RUO)

#### For further information

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Check out our Reproductive Health portfolio:

- Cystic Fibrosis
- Rapid Aneuploidy Analysis
- Pregnancy Loss
- Male Factor Infertility
- Thrombosis Risk Panel



Did you know that both the MHRA and European Medicines agency advise testing for *DPYD* variants in patients undergoing treatment with Flucytosine (5-FC) for fungal or yeast infections?

Contact [dpyd@yourgenehealth.com](mailto:dpyd@yourgenehealth.com) if you'd like to collaborate



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