

# New and redesigned TaqMan® drug metabolism genotyping assays

## New TaqMan® drug metabolism genotyping assays

Assays were designed for three targets:

Target	dbSNP ID	Assay ID
CYP3A4*1B g.-392A>G	rs2740574	C___1837671_50
CYP2C19*10 c.680C>T g.19153C>T	rs6413438	C__30634128_10 <sup>1</sup>
CYP2C9*4 c. 1076T>C g.42615T>C	rs56165452	C__30634131_20 <sup>1</sup>

<sup>1</sup>Two of the three TaqMan® drug metabolism genotyping assays test for SNPs that are adjacent to other SNPs:

- **C\_\_30634128\_10** detects the rare CYP2C19\*10 c.680C>T SNP that is adjacent to the polymorphic CYP2C19\*2 681G>A SNP (detected by C\_\_25986767\_70)
- **C\_\_30634131\_20** detects the rare CYP2C9\*4 c. 1076T>C SNP that is adjacent to the polymorphic CYP2C9\*3 c.1075A>C SNP (detected by C\_\_27104892\_10)

Assays to adjacent SNPs are run separately on the same samples and data are analyzed as described in the Pharmacogenomics (PGx) Experiments User Guide (Pub. No. MAN0009612, available at [lifetechnologies.com](http://lifetechnologies.com)), Chapter 5 section: “TaqMan® drug metabolism genotyping assays to triallelic SNPs and adjacent SNP targets”.

## TaqMan® drug metabolism genotyping assays with new designs:

Four new TaqMan® drug metabolism genotyping assays are improved versions of existing TaqMan® drug metabolism genotyping assays. Both versions will be available for purchase on our website. However, we encourage you to test the new versions and adopt them in the near future.

Target	dbSNP ID	Existing	New	Notes
CYP2D6*7 g.2935A>C	rs5030867	C__32388575_30	C__32388575_A0	Improved amplification by reduction of high NTC signal
CYP2D6*8 g.1758G>T	rs5030865	C_30634117C_20	C_30634117C_K0	Improved amplification by decrease in amplicon size
CYP2D6*14g.1758G>A	rs5030865	C_30634117D_30	C_30634117D_M0	Improved amplification by decrease in amplicon size
CYP2D6*17g.1023C>T	rs28371706	C___2222771_40	C___2222771_A0	Improved functionality <sup>2</sup>

<sup>2</sup>C\_\_\_2222771\_40 to CYP2D6\*17 g.1023C>T cannot amplify the wild type allele in some samples (i.e., a \*17 heterozygous sample is sometimes genotyped as a \*17 homozygous sample). The new C\_\_\_2222771\_A0 assay corrects this issue. For more details, please refer to the Important Information displayed for each assay on [lifetechnologies.com/ordertaqman](http://lifetechnologies.com/ordertaqman).