

New and redesigned TaqMan Drug Metabolism Genotyping Assays

New Applied Biosystems™ TaqMan™ Drug Metabolism Genotyping Assays:

Assays are designed for three targets:

Target	dbSNP ID	Assay ID
<i>CYP3A4*1B</i> g.-392A>G	rs2740574	C__1837671_50
<i>CYP2C19*10</i> c.680C>T g.19153C>T	rs6413438	C__30634128_10 ¹
<i>CYP2C9*4</i> c.1076T>C g.42615T>C	rs56165452	C__30634131_20 ¹

¹Two 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 thermofisher.com/pgx), 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 the new and earlier 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.

Assays are designed for four targets:

Target	dbSNP ID	Existing	New	Notes
<i>CYP2D6*7</i> g.2935A>C	rs5030867	C__32388575_30	C__32388575_A0	Improved amplification by reduction of high NTC signal
<i>CYP2D6*8</i> g.1758G>T	rs5030865	C__30634117C_20	C__30634117C_K0	Improved amplification by decrease in amplicon size
<i>CYP2D6*14</i> g.1758G>A	rs5030865	C__30634117D_30	C__30634117D_M0	Improved amplification by decrease in amplicon size
<i>CYP2D6*17</i> g.1023C>T	rs28371706	C__2222771_40	C__2222771_A0	Improved functionality ²

²C__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 at thermofisher.com/ordertaqman

Find out more at thermofisher.com/pgx