**From:**
Gaedigk A, Boone EC, Turner A, van Schaik R, Cheranova D, Wang WY, Broeckel U, Granfield CA, Hodge, J, Ly RC, Lynnes TC, Mitchell MW, Moyer AM, Kalman LV. Characterization of Reference Materials for CYP3A4 and CYP3A5- A GeT-RM Collaborative Project. J Mol Diagn. 2023; 25:655-664.

**Table 1.** Summary of platforms and genotyping assays used

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Star allele** | **rsID#**  | **Variant defining star allele****position per NM\_017460.6** | **Laboratory 2****PharmacoScan**yes= allele tested  | **Laboratory 3****Autogenomics\*** | **Laboratories 1# and 4 TaqMan™**† **assay ID** |
| *CYP3A4\*2* | rs55785340 | c.664T>C | yes | yes | n/a |
| *CYP3A4\*3* | rs4986910 | c.1334T>C | yes | yes | n/a |
| *CYP3A4\*4* | rs55951658 | c.352T>C | yes | n/a | n/a |
| *CYP3A4\*5* | rs55901263 | c.653C>G | yes | n/a | n/a |
| *CYP3A4\*6* | rs4646438 | c.830dup | yes | yes | C\_\_32787140\_40# |
| *CYP3A4\*7* | rs56324128 | c.167G>A | yes | n/a | n/a |
| *CYP3A4\*8* | rs72552799 | c.389G>A | yes | n/a | Custom Design (AH6R7YP) |
| *CYP3A4\*9* | rs72552798 | c.508G>A | yes | n/a | n/a |
| *CYP3A4\*10* | rs4986908 | c.520G>C | yes | n/a | n/a |
| *CYP3A4\*11* | rs67784355 | c.1088C>T | yes | n/a | C\_\_30634203\_10 |
| *CYP3A4\*12* | rs12721629 | c.1117C>T | yes | yes | C\_\_30634202\_10 |
| *CYP3A4\*13* | rs4986909 | c.1247C>T | yes | n/a | C\_\_29554474\_10 |
| *CYP3A4\*15* | rs4986907 | c.485G>A | yes | n/a | n/a |
| *CYP3A4\*16* | rs12721627 | c.554C>G | yes | n/a | C\_\_30634207\_10 |
| *CYP3A4\*17* | rs4987161 | c.566T>C | yes | yes | C\_\_27859822\_10 |
| *CYP3A4\*18* | rs28371759 | c.878T>C | yes | yes | C\_\_27859823\_20 |
| CYP3A4\*19 | rs4986913 | c.1399C>T | yes  | n/a | n/a |
| *CYP3A4\*20* | rs67666821 | c.1461dup | yes | yes | n/a |
| *CYP3A4\*22* | rs35599367 | c.522-191C>T | yes | yes | C\_\_59013445\_10 |
| *CYP3A4\*23* | rs57409622 | c.484C>T | yes | n/a | n/a |
| *CYP3A4\*26* | rs138105638 | c.802C>T | n/a | n/a | C\_172781425\_10 |

† TaqMan™ (Thermo Fisher Scientific, Waltham, MA)

**\*** Autogenomics BioFilmChip Microarray CYP450 3A4-3A5 Plus assay (ID 03-9520-00) (Autogenomics, Carlsbad, CA)

# *CYP3A4\*6* was genotyped by Laboratory 1 using TaqMan™ (Assay ID: C\_\_32787140\_40)

n/a, assay not performed

Star allele defining variants and their respective rsIDs are per the PharmVar *CYP3A4* gene page at <https://www.pharmvar.org/gene/CYP3A4> (last accessed 2/1/2023).