

# TaqMan® Assays for Genetic Variation

Assay type	Species	Number of assays	Format	Assay content	Scale	Number of rxns [5 µL]	Conc.	Cat. no.	Assay type	How to order	Validation	Recommended master mix	Analysis software	URL
<b>TaqMan® SNP Genotyping Assays</b>														
Predesigned TaqMan® SNP Assays	Human/mouse	- 4.5 million human SNP assays - Over 10,000 mouse SNP assays	Single tube, 96/384 plate, OpenArray®, Custom TaqMan® Array Card	FAM™ dye-labeled MGB probe + VIC® dye-labeled MGB probe + 2 primers	Small	1,500	40X	4351379, 4351384*	Made-to-Order	Online search tool	160,000 assays have been validated against four ethnic populations (45 samples/population)  Other assays will be functionally tested [human] against 10 or 20 unique DNA samples	TaqMan® Sample-to-SNP™ Kit  TaqMan® Genotyping Master Mix  TaqMan® GTXpress™ Master Mix	TaqMan® Genotyper Software	lifetechnologies.com/taqmansnp
					Medium	5,000	40X	4351376, 4351382*						
					Large	12,000	80X	4351374, 4351380*						
Custom TaqMan® SNP Genotyping Assays	All species	Unlimited	Single tube, 96/384 plate, OpenArray®, Custom TaqMan® Array Card		Small	1,500	40X	4331349, 4332077**	Custom TaqMan® Assays design tool: lifetechnologies.com/snpcadt		Human assays are functionally tested using 20 DNA samples isolated from cell lines	TaqMan® Universal Master Mix II***		
					Medium	5,000	40X	4332072, 4332075**						
					Large	12,000	80X	4332073, 4332076**						

\*Mouse assay. \*\*Non-human assay.

\*\*\*The choice of which master mix to use depends on your sample type (tissue, blood, plant, etc.), sample preparation method (purified DNA or crude lysate), and use of Fast or standard PCR cycling. For more information, go to lifetechnologies.com/taqmansnp.

<b>TaqMan® Drug Metabolism Assays</b>														
Predesigned TaqMan® Drug Metabolism Assays (include SNP, indel, MNP*)	Human	2,700 assays	Single tube, 96/384 plate, OpenArray®	FAM™ dye-labeled MGB probe + VIC® dye-labeled MGB probe + 2 primers	Small	750	20X	4362691	Inventoried	Online search tool	All tested using 180 samples from four different populations	TaqMan® Sample-to-SNP™ Kit  TaqMan® Genotyping Master Mix  TaqMan® Universal Master Mix II***	TaqMan® Genotyper Software	lifetechnologies.com/taqmandme

\*MNP = multi nucleotide polymorphism, indel = small insertion or deletion.

\*\*The choice of which master mix to use depends on your sample type (tissue, blood, etc.), sample preparation method (purified DNA or crude lysate), and use of Fast or standard PCR cycling. For more information, go to lifetechnologies.com/taqmansnp.

Assay type	Species	Number of assays	Format	Assay content	Scale	Number of rxns [10 µL]	Conc.	Cat. no.	Assay type	How to order	Validation	Recommended master mix	Analysis software	URL
<b>TaqMan® Mutation Detection Assays</b>														
TaqMan® Mutation Detection Assays	Human	~776 mutation assays and 46 gene reference assays	Single tube	FAM™ dye-labeled MGB probe + 2 primers + allele-specific blocker	Small	150	10X	4465804	Inventoried	Online search tool	All tested and validated by Life Technologies	TaqMan® Genotyping Master Mix	TaqMan® Mutation Detection Software	lifetechnologies.com/taqmantmda
TaqMan® Mutation Reference Assays					Small	150	10X	4465807		Online				
TaqMan® EGFR Exon 19 Deletions Assay					Small	150	10X	4465805		Online				
TaqMan® Mutation Detection IPC Reagent Kit						1,000		4467538	In stock					

Assay type	Species	Number of assays	Format	Assay content	Scale	Number of rxns (10 µL)	Conc.	Cat. no.	Assay type	How to order	Validation	Recommended master mix	Analysis software	URL
<b>TaqMan® Copy Number Assays</b>														
Predesigned TaqMan® Copy Number Assays	Human/mouse	1.6 million human assays 180,000 mouse assays	Single tube and 96/384 plate	FAM™ dye-labeled MGB probe + 2 primers	Small	720	20X	4400291	Made-to-Order	Online search tool and GAST (GeneAssist™ Copy Number Assay Tool)	Pre-masking of SNPs, repetitive sequences and assay genome uniqueness checks, compatible with Life Technologies reference assays	TaqMan® Genotyping Master Mix (recommended) TaqMan® Universal Master Mix II Gene Expression Master Mix	CopyCaller® software	lifetechnologies.com/taqmancncv
					Medium	1,500	20X	4400292						
					Large	5,800	60X	4400293						
Custom TaqMan® Copy Number Assays	All species (no reference assay)	Unlimited			Small	720	20X	4400294		GAST (GeneAssist™ Copy Number Assay Tool)	Can be compared with the human or mouse reference assays for compatibility in duplex reactions			
					Medium	1,500	20X	4400295						
					Large	5,800	60X	4400296						
Custom Plus TaqMan® Copy Number Assays	Human/mouse	Unlimited			Small	720	20X	4442487		GAST (GeneAssist™ Copy Number Assay Tool)	Pre-masking of SNPs, repetitive sequences and assay genome uniqueness checks, option to check for compatibility with Life Technologies reference assays			
					Medium	1,500	20X	4442520						
					Large	5,800	60X	4442488						
<b>TaqMan® Copy Number Reference Assays (Human)</b>														
RNase P, 750 rxns	Human	1	Single tube and 96/384 plate	VIC® dye-labeled TAMRA™ probe + 2 primers	Medium	1,500	20X	4403326	Inventoried	Online	N/A	TaqMan® Genotyping Master Mix (recommended) TaqMan® Universal Master Mix II Gene Expression Master Mix	CopyCaller® software	lifetechnologies.com/taqmancncv
RNase P, 3,000 rxns		1			Large	6,000	20X	4403328						
TERT, 750 rxns		1			Medium	1,500	20X	4403316						
TERT, 3,000 rxns		1			Large	6,000	20X	4403315						
<b>TaqMan® Copy Number Reference Assays (Mouse)</b>														
Tfrc, 750 rxns	Mouse	1	Single tube and 96/384 plate	VIC® dye-labeled TAMRA™ probe + 2 primers	Medium	1,500	20X	4458366	Inventoried	Online	N/A	TaqMan® Genotyping Master Mix (recommended) TaqMan® Universal Master Mix II Gene Expression Master Mix	CopyCaller® software	lifetechnologies.com/taqmancncv
Tfrc, 3,000 rxns		1			Large	6,000	20X	4458367						
Tert, 750 rxns		1			Medium	1,500	20X	4458368						
Tert, 3,000 rxns		1			Large	6,000	20X	4458369						

**Note:** TaqMan® Copy Number Assays cannot be used on StepOne™ Real-Time PCR Systems

#### Custom TaqMan® Assay Manufacturing and Plating

For custom manufacturing, including different dyes, volumes, or formulations, contact: [specialoligos@lifetech.com](mailto:specialoligos@lifetech.com)