

# TaqMan Comprehensive Microbiota Control

A high-coverage amplification control to use with TaqMan microbial and antibiotic resistance panels

- **Comprehensive**—contains amplicon sequences for over 500 of the most common Applied Biosystems™ TaqMan® Assays for microbial detection and antibiotic resistance
- **Inventoried**—receive your amplification control quickly
- **Flexible**—assay list will be updated at least once per year to help ensure assay coverage aligns with the most popular microbial assays



## Introduction

The Applied Biosystems™ TaqMan® Comprehensive Microbiota Control contains a pool of linearized multi-target plasmids with microbial target sequences commonly used on Applied Biosystems™ TaqMan® OpenArray™ and TaqMan® Array Card panels. The control has relevant targets for many microbial profiling applications, including respiratory tract microbiota, urinary tract microbiota, vaginal microbiota, and antibiotic resistance. The TaqMan Comprehensive Microbiota Control is available in two versions: a low-concentration control (Cat. No. A50382), which can be included as a positive control for panel-specific amplification to verify assay performance and to help with troubleshooting, and a high-concentration control (Cat. No. A50383), which can also be used to determine parameters necessary for analytical validation (e.g., limit of detection and  $C_t$  cutoff values).

In addition to microbial targets, the control also contains target sequences for common workflow controls, such as the Applied Biosystems™ TaqMan® Universal RNA Spike-In/Reverse Transcription (Xeno) Control, TaqMan® Universal Extraction Control Organism (*B. atrophaeus*), the pan-bacterial 16S rRNA gene, and the human RNase P gene.

This product is updated on an annual basis to ensure coverage of the most popular microbial targets, and performance is measured to ensure consistency between versions. Version 1 of this product was first available in April 2021 and contained 471 microbial assay targets. Version 2 became available in October 2021 and contains an additional 83 microbial assay targets.

## Assay coverage

Assay ID	Alternate assay ID	Assay name	Type
Ba07320003_s1	AI39TLZ	<i>sul2</i>	Antibiotic resistance
Ba07320002_s1	APFVNEM	<i>mcr-1</i>	Antibiotic resistance
Ba07320001_s1	APMFXGC	<i>nimD</i>	Antibiotic resistance
Ba07319996_s1	APKA3TT	<i>aph(3)-VI</i>	Antibiotic resistance
Ba07319994_s1	AIPAEQC	<i>erm(C)</i>	Antibiotic resistance
Ba07319993_s1	APEPUUP	<i>mecC</i>	Antibiotic resistance
Ba07319992_s1	AP47XMJ	<i>cfr</i>	Antibiotic resistance
Ba07319991_s1	APWCWGH	<i>aac(6)-Ib</i>	Antibiotic resistance
Ba07319989_s1	AI70N4N	<i>dfrA</i>	Antibiotic resistance
Ba07319988_s1	AI5IRR7	<i>sul1</i>	Antibiotic resistance
Ba07319987_s1	APKA3WE	<i>nimA</i>	Antibiotic resistance
Ba07319986_s1	APYMJ7W	<i>dfrA5</i>	Antibiotic resistance
Ba07319985_s1	APXGTRY	<i>blaSHV</i>	Antibiotic resistance
Ba07319984_s1	APEPVYR	nitroimidazole resistance gene ( <i>nimH</i> )	Antibiotic resistance
Ba07319982_s1	APXGP2F	<i>aac(6)-Ib</i>	Antibiotic resistance
Ba07319979_s1	APU64KC	<i>tet(S)</i>	Antibiotic resistance
Ba04931076_s1	AIHSPNW	<i>blaNDM</i>	Antibiotic resistance
Ba04930816_s1	AIRSA0W	<i>blaOXA-48</i>	Antibiotic resistance
Ba04646160_s1		<i>qnrA</i>	Antibiotic resistance
Ba04646159_s1		<i>vanA</i>	Antibiotic resistance
Ba04646158_s1		<i>blaIMP</i>	Antibiotic resistance
Ba04646157_s1		<i>blaPER</i>	Antibiotic resistance
Ba04646156_s1		<i>blaMOX</i>	Antibiotic resistance
Ba04646155_s1		<i>blaVIM</i>	Antibiotic resistance
Ba04646154_s1		<i>blaCTX</i>	Antibiotic resistance
Ba04646153_s1		<i>blaVEB</i>	Antibiotic resistance
Ba04646152_s1	AIKAL1G	<i>blaKPC</i>	Antibiotic resistance
Ba04646151_s1		<i>blaGES</i>	Antibiotic resistance
Ba04646150_s1		<i>vanB</i>	Antibiotic resistance
Ba04646149_s1		<i>blaCTX-M</i>	Antibiotic resistance
Ba04646148_s1		<i>ndm1</i>	Antibiotic resistance
Ba04646147_s1		<i>vanA</i>	Antibiotic resistance
Ba04646145_s1	AIQJREU	<i>qnrS</i>	Antibiotic resistance
Ba04646144_s1		<i>blaACC</i>	Antibiotic resistance
Ba04646143_s1		<i>blaOXA-51</i>	Antibiotic resistance
Ba04646142_s1		<i>blaCTX-M</i>	Antibiotic resistance
Ba04646140_s1		<i>blaPER</i>	Antibiotic resistance
Ba04646139_s1		<i>blaOXA-23</i>	Antibiotic resistance
Ba04646138_s1		<i>blaOXA-48</i>	Antibiotic resistance
Ba04646137_s1	AIQJCWK	<i>erm(A)</i>	Antibiotic resistance
Ba04646136_s1		<i>blaOXA-58</i>	Antibiotic resistance
Ba04646135_s1		<i>blaCMY</i>	Antibiotic resistance
Ba04646134_s1		<i>blaSHV</i>	Antibiotic resistance
Ba04646133_s1		<i>blaOXA-1</i>	Antibiotic resistance
Ba04646131_s1	AIT9641	<i>blaIMP</i>	Antibiotic resistance
Ba04646130_s1		<i>vanC</i>	Antibiotic resistance
Ba04646129_s1		<i>vanC</i>	Antibiotic resistance

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Ba04646128_s1		<i>blaTEM</i>	Antibiotic resistance
Ba04646127_s1	AIRSASL	<i>blaCTX-M</i>	Antibiotic resistance
Ba04646126_s1		<i>blaFOX</i>	Antibiotic resistance
Ba04646124_s1		<i>blaMIR</i>	Antibiotic resistance
Ba04646122_s1		<i>vanC</i>	Antibiotic resistance
Ba04646121_s1		<i>blaNDM</i>	Antibiotic resistance
Ba04646120_s1		<i>blaDHA</i>	Antibiotic resistance
Ba04646119_s1		<i>blaIMP</i>	Antibiotic resistance
Ba04646118_s1		<i>blaOXA-24</i>	Antibiotic resistance
Ba04646117_s1		<i>blaACT</i>	Antibiotic resistance
Ba04646116_s1		<i>blaIMP</i>	Antibiotic resistance
Ba04230915_s1		<i>tet(M)</i>	Antibiotic resistance
Ba04230913_s1		<i>erm(B)</i>	Antibiotic resistance
Ba04230908_s1		<i>mecA</i>	Antibiotic resistance
Ba04230904_s1		<i>mef(A)</i>	Antibiotic resistance
Ba04230900_s1		<i>vanZ</i>	Antibiotic resistance
APYMMHP		Fosfomycin-resistance glutathione transferase ( <i>fosA</i> )	Antibiotic resistance
APYMKP3		TetB	Antibiotic resistance
APXGUH7		Quinolone-resistance pentapeptide repeat protein (QnrB)	Antibiotic resistance
APXGRWR		Quinolone resistance gene <i>gyrA</i> (D87N)	Antibiotic resistance
APXGRMY		<i>dfrA</i>	Antibiotic resistance
APXGR46		Quinolone-resistance pentapeptide repeat protein (QnrB)	Antibiotic resistance
APWCYYA		Quinolone-resistance pentapeptide repeat protein (QnrB)	Antibiotic resistance
APWCW22		Sulfonamide-resistant dihydropteroate synthase Sul2 ( <i>sul2</i> )	Antibiotic resistance
APU63G4		Sulfonamide-resistant dihydropteroate synthase Sul1 ( <i>sul1</i> )	Antibiotic resistance
APU66ED		Quinolone-resistance pentapeptide repeat protein (QnrB)	Antibiotic resistance
APEPUGF		Quinolone-resistance pentapeptide repeat protein (QnrS)	Antibiotic resistance
AP47YDX		Quinolone-resistance pentapeptide repeat protein (QnrB)	Antibiotic resistance
AP3227F		Quinolone resistance gene <i>gyrA</i> (S83L)	Antibiotic resistance
AIMSJA2		<i>blaOXA-51</i>	Antibiotic resistance
AIKAMPY		ANT(3)-Ia family aminoglycoside nucleotidyltransferase (AadA1)	Antibiotic resistance
AIKAMPZ		Class A broad-spectrum beta-lactamase TEM G236S	Antibiotic resistance
AIHSQL6		Carbapenem-hydrolyzing class D beta-lactamase (OXA-24)	Antibiotic resistance
AIHSQDJ		Class A broad-spectrum beta-lactamase TEM E102K	Antibiotic resistance
AIAA1B7		Class A broad-spectrum beta-lactamase TEM R162S	Antibiotic resistance
AI7ONZ6		Class A broad-spectrum beta-lactamase TEM E237K	Antibiotic resistance
Hs99999901_s1		Eukaryotic 18S rRNA	Control
Hs04930436_g1		Human RNase P gene	Control
Ba06596576_s1	APGZFA7	<i>Bacillus atrophaeus</i>	Control
Ba04930791_s1	AIMSIAU	Pan-bacterial 16S rRNA gene	Control
At02233912_g1		<i>Arabidopsis</i> APX1	Control
AP2XDJA		MS2 bacteriophage control	Control
Ac04646146_a1		Exogenous IPC	Control
Ac00010014_a1		Xeno control	Control
Vi07918637_s1	APZTHGY	SARS-CoV-2 N gene	Microbe detection
Vi07918636_s1	APXGVC4	SARS-CoV-2 S gene	Microbe detection
Vi07921935_s1	APH6D4Y	SARS-CoV-2 <i>orf1ab</i>	Microbe detection
Vi07319419_s1	APXGT9Z	Human rhinovirus 3	Microbe detection

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Vi07319417_s1	AP324JP	Human rhinovirus A40 strain 7D5	Microbe detection
Vi06439676_s1	AIBJZGW	Influenza A virus	Microbe detection
Vi06439675_s1	AIX02SA	Human herpesvirus 4 (Epstein-Barr Virus)	Microbe detection
Vi06439674_s1	AIBJZGC	Human coronavirus HKU1	Microbe detection
Vi06439673_s1	AIVI55D	Human coronavirus NL64	Microbe detection
Vi06439672_s1	APAAAWU	Human rubulavirus 2 (human parainfluenza virus 2)	Microbe detection
Vi06439671_s1	AIWR4BL	Human coronavirus 229E	Microbe detection
Vi06439670_s1	APCE4GR	Human respirovirus 3 (human parainfluenza virus 3)	Microbe detection
Vi06439669_s1	APFVK4U	Enterovirus D68	Microbe detection
Vi06439667_s1	AIQJDI3	Influenza B virus	Microbe detection
Vi06439666_s1	AI70NYN	Influenza A/H1	Microbe detection
Vi06439665_s1	APXGRVA	Parechovirus A	Microbe detection
Vi06439663_s1	APH6ADD	Human rubulavirus 4	Microbe detection
Vi06439661_s1	APZTD2J	Human respiratory syncytial virus A	Microbe detection
Vi06439660_s1	AP2W7MG	Human respiratory syncytial virus A	Microbe detection
Vi06439659_s1	AP32Z7E	Human respiratory syncytial virus B	Microbe detection
Vi06439658_s1	APRWE6A	Human adenovirus B, human adenovirus E	Microbe detection
Vi06439657_s1	APKA3DE	Mumps rubulavirus	Microbe detection
Vi06439655_s1	APU63A4	Human adenovirus F	Microbe detection
Vi06439654_s1	APFVKMM	Measles morbillivirus	Microbe detection
Vi06439650_s1	AP322PK	Human metapneumovirus	Microbe detection
Vi06439648_s1	APNKRZF	Human adenovirus B	Microbe detection
Vi06439647_s1	AI0IYXS	Human herpesvirus 3 (varicella-zoster virus)	Microbe detection
Vi06439646_s1	AIHSQCH	Human coronavirus OC44	Microbe detection
Vi06439644_s1	AI20VG2	MERS	Microbe detection
Vi06439643_s1	AI1RW30	Human herpesvirus 5 (cytomegalovirus)	Microbe detection
Vi06439642_s1	AP9HJH3	Human respirovirus 1 (human parainfluenza virus 1)	Microbe detection
Vi06439641_s1	APCE4J2	Human bocavirus	Microbe detection
Vi06439637_s1	APXGREW	Rhinovirus B	Microbe detection
Vi06439636_s1	AI5090M	Human rhinovirus	Microbe detection
Vi06439635_s1	AID1VTC	Influenza A/H3	Microbe detection
Vi06439634_s1	AP322CR	SARS	Microbe detection
Vi06439631_s1	AP7DPVF	Human enterovirus	Microbe detection
Vi06439629_s1	APH6AAN	Human adenovirus C	Microbe detection
Vi06439627_s1	AI1RW3J	Human herpesvirus 6a and 6b	Microbe detection
Vi04646232_s1	AI5IQ07	Human herpesvirus 2 (herpes simplex virus 2)	Microbe detection
Vi04230116_s1	AI39SUZ	Human herpesvirus 1 (herpes simplex virus 1)	Microbe detection
Vi03453414_s1		Human immunodeficiency virus 2	Microbe detection
Vi03453412_s1		Adenovirus C	Microbe detection
Vi03453409_s1		Human immunodeficiency virus 1	Microbe detection
Vi03453408_s1		Hepatitis C virus	Microbe detection
Vi03453406_s1		Hepatitis B virus	Microbe detection
Vi03453405_s1		Hepatitis B virus	Microbe detection
Vi03453404_s1		Human betaherpesvirus 7 (herpes simplex virus 7)	Microbe detection
Vi03453402_s1		Human polyomavirus 2 (JC virus)	Microbe detection
Vi03453401_s1		Human polyomavirus 1 (BK virus)	Microbe detection
Vi03453400_s1		Human herpesvirus 5 (cytomegalovirus)	Microbe detection
Vi03453399_s1		Human herpesvirus 4 (Epstein-Barr Virus)	Microbe detection

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Vi03453397_s1		Human T-lymphotropic virus 1	Microbe detection
Pr04646256_s1	AIGJQ69	<i>Trichomonas vaginalis</i>	Microbe detection
Pr04347818_s1		<i>Leishmania</i> spp.	Microbe detection
Pr04347817_s1		<i>Leishmania</i> spp.	Microbe detection
Pr04347816_s1		<i>Leishmania</i> spp.	Microbe detection
Fn06439626_s1	AIVI6BD	<i>Pneumocystis jirovecii</i>	Microbe detection
Fn04646250_s1	AIRSAL1	<i>Pichia kudriavzevii</i>	Microbe detection
Fn04646244_s1	AIHSPBD	<i>Candida dubliniensis</i>	Microbe detection
Fn04646241_s1	AIFATJS	<i>Clavispora lusitanae</i>	Microbe detection
Fn04646240_s1	AI6RORE	<i>Candida glabrata</i>	Microbe detection
Fn04646233_s1	AI1RWKD	<i>Candida albicans</i>	Microbe detection
Fn04646223_s1	AIWR3VL	<i>Candida krusei</i>	Microbe detection
Fn04646221_s1	AIQJCII	<i>Candida parapsilosis</i>	Microbe detection
Fn04646220_s1	AI1RV2I	<i>Candida tropicalis</i>	Microbe detection
Ba07286617_s1	APCE6VN	<i>Citrobacter freundii</i>	Microbe detection
Ba07286616_s1	APDJZFK	<i>Citrobacter freundii</i>	Microbe detection
Ba06439625_s1	AI0IYWE	<i>Haemophilus influenzae</i>	Microbe detection
Ba06439624_s1	AI7ONXL	<i>Bordetella</i> spp.	Microbe detection
Ba06439623_s1	AI2OU8U	<i>Bordetella pertussis</i>	Microbe detection
Ba06439622_s1	APXGPZ3	<i>Moraxella catarrhalis</i>	Microbe detection
Ba06439621_s1	AIVI57I	<i>Bordetella holmesii</i>	Microbe detection
Ba06439620_s1	AI5IRK5	<i>Mycoplasma pneumoniae</i>	Microbe detection
Ba06439619_s1	APZTD4A	<i>Streptococcus pneumoniae</i>	Microbe detection
Ba06439618_s1	AI89L3T	<i>Coxiella burnetii</i>	Microbe detection
Ba06439617_s1	AI2OU8P	<i>Legionella pneumophila</i>	Microbe detection
Ba06439616_s1	AI1RW2H	<i>Chlamydia pneumoniae</i>	Microbe detection
Ba04932088_s1	AIHSP9E	<i>Citrobacter freundii</i>	Microbe detection
Ba04932087_s1	APH49RU	<i>Enterobacter cloacae</i>	Microbe detection
Ba04932086_s1	APPRJ2H	<i>Enterococcus faecium</i>	Microbe detection
Ba04932085_s1	AIQJC49	<i>Staphylococcus xylosum</i> , <i>Staphylococcus saprophyticus</i>	Microbe detection
Ba04932084_s1	AIVI55U	<i>Acinetobacter baumannii</i>	Microbe detection
Ba04932083_s1	AI1AA1I9	<i>Klebsiella pneumoniae</i>	Microbe detection
Ba04932082_s1		<i>Proteus vulgaris</i>	Microbe detection
Ba04932081_s1	AIRSBQC	<i>Pseudomonas aeruginosa</i>	Microbe detection
Ba04932080_s1	AIWR4MN	<i>Klebsiella aerogenes</i>	Microbe detection
Ba04932079_s1	AIT97ZM	<i>Klebsiella oxytoca</i>	Microbe detection
Ba04932078_s1	AI11OFM	<i>Morganella morganii</i>	Microbe detection
Ba04932077_s1	AIKAMLU	<i>Providencia stuartii</i>	Microbe detection
Ba04932076_s1	AIPAEY1	<i>Proteus mirabilis</i>	Microbe detection
Ba04646278_s1	AIRSBBH	<i>Prevotella bivia</i>	Microbe detection
Ba04646276_s1	AIPAEK3	<i>Streptococcus agalactiae</i>	Microbe detection
Ba04646259_s1	AI0IXYJ	<i>Staphylococcus aureus</i>	Microbe detection
Ba04646258_s1	AIN1GGT	<i>Lactobacillus jensenii</i>	Microbe detection
Ba04646257_s1	AIKALX5	<i>Lactobacillus iners</i>	Microbe detection
Ba04646255_s1	AI1GJQX1	<i>Mycoplasma hominis</i>	Microbe detection
Ba04646254_s1	AIHSO39	<i>Ureaplasma urealyticum</i>	Microbe detection
Ba04646252_s1	AIRSAXJ	<i>Neisseria gonorrhoeae</i>	Microbe detection
Ba04646251_s1	AI39SWT	<i>Mycoplasma genitalium</i>	Microbe detection

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Ba04646249_s1	AIQJCRB	<i>Chlamydia trachomatis</i>	Microbe detection
Ba04646248_s1	AI1RV4R	<i>Escherichia coli</i>	Microbe detection
Ba04646247_s1	AIGJRP0	<i>Enterococcus faecalis</i>	Microbe detection
Ba04646246_s1	AIMSIK4	<i>Mobiluncus mulieris</i>	Microbe detection
Ba04646245_s1	AIMSH8N	<i>Lactobacillus crispatus</i>	Microbe detection
Ba04646242_s1	AIHSPV8	<i>Escherichia coli</i>	Microbe detection
Ba04646238_s1		<i>Gardnerella vaginalis</i>	Microbe detection
Ba04646237_s1	AIX007B	<i>Treponema pallidum</i>	Microbe detection
Ba04646236_s1	AI0IXJR	<i>Gardnerella vaginalis</i>	Microbe detection
Ba04646235_s1	AILJKEW	<i>Mobiluncus curtisii</i>	Microbe detection
Ba04646234_s1	AI11NRX	<i>Lactobacillus gasseri</i>	Microbe detection
Ba04646231_s1	AICSWL3	<i>Megasphaera</i> type 2	Microbe detection
Ba04646230_s1	AICSWFD	<i>Megasphaera</i> type 1	Microbe detection
Ba04646229_s1	AIN1GRC	BVAB2	Microbe detection
Ba04646228_s1	AIRSAXK	<i>Haemophilus ducreyi</i>	Microbe detection
Ba04646225_s1	AID1VDK	<i>Bacteroides fragilis</i>	Microbe detection
Ba04646222_s1	AICSW7C	<i>Atopobium vaginae</i>	Microbe detection
Ba04646141_s1		<i>Staphylococcus epidermidis</i>	Microbe detection
Ba04646123_s1		<i>Staphylococcus aureus</i>	Microbe detection
Ba04230918_s1		<i>Staphylococcus epidermidis</i>	Microbe detection
APZTGWJ		<i>Raoultella ornithinolytica</i>	Microbe detection
APZTGWF		<i>Acinetobacter baumannii-calcoaceticus</i> complex	Microbe detection
APZTGM6		Human papillomavirus type 68	Microbe detection
APZTG7R		Human papillomavirus type 55	Microbe detection
APZTG27		<i>Escherichia coli</i> O157	Microbe detection
APZTFXH		<i>Mobiluncus curtisii</i> , <i>Mobiluncus mulieris</i>	Microbe detection
APZTFPU		<i>Prevotella intermedia</i>	Microbe detection
APZTFHR		<i>Helicobacter pylori</i>	Microbe detection
APZTFAZ		<i>Burkholderia</i> spp.	Microbe detection
APZTFAJ		<i>Propionibacterium acnes</i> , <i>Cutibacterium acnes</i>	Microbe detection
APZTF3M		<i>Escherichia coli</i>	Microbe detection
APZTEJW		<i>Stenotrophomonas maltophilia</i>	Microbe detection
APZTEGF		<i>Vibrio cholerae</i>	Microbe detection
APZTEGE		<i>Escherichia coli</i> EHEC	Microbe detection
APZTD3C		<i>Proteus mirabilis</i>	Microbe detection
APYMNTA		<i>Burkholderia pseudomallei</i>	Microbe detection
APYMN3R		<i>Corynebacterium jeikeium</i>	Microbe detection
APYMN3J		<i>Actinotignum schaalii</i>	Microbe detection
APYMMUD		<i>Coccidioides immitis</i> , <i>Coccidioides posadasii</i>	Microbe detection
APYMMC4		<i>Staphylococcus aureus</i>	Microbe detection
APYMA3A		<i>Streptococcus dysgalactiae</i>	Microbe detection
APYMM2F		<i>Citrobacter koseri</i>	Microbe detection
APYMKP2		<i>Fusarium oxysporum</i>	Microbe detection
APYMKFZ		<i>Eggerthella lenta</i>	Microbe detection
APYMJYY		<i>Staphylococcus</i> spp.	Microbe detection
APYMJWH		<i>Vibrio vulnificus</i>	Microbe detection
APYMJWG		<i>Cryptosporidium parvum</i> , <i>Cryptosporidium hominis</i>	Microbe detection
APYMJ7U		<i>Staphylococcus</i> spp.	Microbe detection

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APXGUTY		<i>Malassezia restricta</i>	Microbe detection
APXGUPM		<i>Legionella longbeachae</i>	Microbe detection
APXGUFU		<i>Vibrio cholerae</i>	Microbe detection
APXGUFT		Rotavirus B	Microbe detection
APXGUDD		<i>Staphylococcus capitis</i>	Microbe detection
APXGU7P		<i>Clostridium botulinum</i>	Microbe detection
APXGTZ2		<i>Stenotrophomonas maltophilia</i>	Microbe detection
APXGTR6		<i>Leptotrichia</i> spp.	Microbe detection
APXGTPK		<i>Fusobacterium nucleatum</i>	Microbe detection
APXGRW7		<i>Anaerococcus</i> spp.	Microbe detection
APXGRRV		<i>Streptococcus sanguinis</i>	Microbe detection
APXGRE2		<i>Staphylococcus</i> spp.	Microbe detection
APXGRDG		<i>Escherichia coli</i> EIEC	Microbe detection
APXGRCK		<i>Vibrio parahaemolyticus</i>	Microbe detection
APXGRCJ		<i>Cryptosporidium parvum</i> , <i>Cryptosporidium hominis</i>	Microbe detection
APXGR44		<i>Fusarium solani</i>	Microbe detection
APWCZDA		<i>Cryptosporidium</i> spp.	Microbe detection
APWCZC7		<i>Campylobacter jejuni</i>	Microbe detection
APWCYVW		<i>Vibrio cholerae</i>	Microbe detection
APWCYVP		Astrovirus	Microbe detection
APWCYTW		<i>Mycobacterium chelonae</i>	Microbe detection
APWCXMC		<i>Curvularia lunata</i>	Microbe detection
APWCWU4		<i>Peptostreptococcus prevotii</i>	Microbe detection
APWCWTJ		<i>Escherichia coli</i> ETEC	Microbe detection
APU66WZ		Human papillomavirus type 83	Microbe detection
APU66AX		Rotovirus A	Microbe detection
APU64TX		<i>Escherichia coli</i>	Microbe detection
APU64N6		Zika virus	Microbe detection
APU63GY		<i>Taenia</i> spp.	Microbe detection
APU6297		<i>Peptostreptococcus asaccharolyticus</i>	Microbe detection
APU626R		<i>Salmonella</i> spp.	Microbe detection
APU626P		<i>Campylobacter jejuni</i>	Microbe detection
APTZ9W7		CONS	Microbe detection
APTZ9KT		<i>Anaerococcus vaginalis</i>	Microbe detection
APT2DC3		Human papillomavirus type 61	Microbe detection
APT2CTE		<i>Gardnerella vaginalis</i>	Microbe detection
APT2CP2		<i>Aeromonas hydrophila</i>	Microbe detection
APT2AFD		<i>Curvularia lunata</i>	Microbe detection
APT2AEX		<i>Prevotella loescheii</i>	Microbe detection
APT2AD3		<i>Cryptosporidium parvum</i>	Microbe detection
APRWXJ		<i>Cutibacterium acnes</i>	Microbe detection
APRWXNW		<i>Vibrio parahaemolyticus</i>	Microbe detection
APRWHG4		<i>Prevotella</i> spp.	Microbe detection
APRWHAY		<i>Lactobacillus reuteri</i>	Microbe detection
APRWH32		<i>Corynebacterium tuberculostearicum</i>	Microbe detection
APRWGGG		Human papillomavirus type 67	Microbe detection
APRWG9D		<i>Escherichia coli</i>	Microbe detection
APRWG74		<i>Trichophyton terrestre</i>	Microbe detection

Assay ID	Alternate assay ID	Assay name	Type
APRWFYE		<i>Trichosporon asahii</i>	Microbe detection
APRWFT6		<i>Clostridium novyi</i>	Microbe detection
APRWE7V		Astrovirus	Microbe detection
APRWE4D		<i>Peptoniphilus harei</i>	Microbe detection
APRWE37		Sapovirus GI	Microbe detection
APPRNW7		<i>Prevotella</i> spp.	Microbe detection
APPRNP2		<i>Lactobacillus rhamnosus</i>	Microbe detection
APPRN69		Human papillomavirus 44 and 55	Microbe detection
APPRN34		<i>Meyerozyma guilliermondii</i>	Microbe detection
APPRN2J		<i>Escherichia coli</i> ETEC	Microbe detection
APPRMPD		<i>Leptotrichia amnionii</i>	Microbe detection
APPRM6F		<i>Haemophilus haemolyticus</i> , <i>Haemophilus influenzae</i>	Microbe detection
APPRKXJ		BK polyoma virus	Microbe detection
APPRKR7		<i>Trichuris trichiura</i>	Microbe detection
APPRKJF		<i>Peptoniphilus ivorii</i>	Microbe detection
APNKVMC		Human papillomavirus type 43	Microbe detection
APNKUEE		Human T cell lymphotropic virus	Microbe detection
APNKUCN		<i>Klebsiella granulomatis</i> , <i>Calymmatobacterium granulomatis</i>	Microbe detection
APNKTYU		<i>Kingella kingae</i>	Microbe detection
APNKTNX		<i>Epidermophyton floccosum</i>	Microbe detection
APNKTDM		JC polyoma virus	Microbe detection
APNKRYH		Norovirus genogroup 1	Microbe detection
APNKRV2		<i>Listeria monocytogenes</i>	Microbe detection
APNKR7A		<i>Ascaris</i> spp.	Microbe detection
APMFZYZ		Norovirus G1	Microbe detection
APMFZWR		<i>Salmonella</i> spp.	Microbe detection
APMFZWN		Sapovirus GV	Microbe detection
APMFZVH		<i>Malassezia globosa</i>	Microbe detection
APMFZP4		<i>Salmonella enterica</i> subsp. <i>enterica</i> Serovar Newport	Microbe detection
APMFZJU		<i>Burkholderia cepacia</i>	Microbe detection
APMFZFC		Norovirus GI1	Microbe detection
APMFXXM		<i>Staphylococcus haemolyticus</i>	Microbe detection
APMFXCZ		<i>Cyclospora cayetanensis</i>	Microbe detection
APMFWZM		<i>Streptococcus pneumoniae</i>	Microbe detection
APMF2CX		<i>Bartonella quintana</i>	Microbe detection
APKA7AK		<i>Malassezia restricta</i>	Microbe detection
APKA647		<i>Salmonella enterica</i> subsp. <i>enterica</i> Serovar Montevideo	Microbe detection
APKA4WM		<i>Campylobacter jejuni</i>	Microbe detection
APKA4HH		<i>Pasteurella multocida</i>	Microbe detection
APKA4A4		<i>Porphyromonas asaccharolytica</i>	Microbe detection
APKA3UH		Human rotavirus ADRV-N	Microbe detection
APKA3R3		<i>Coccidioides posadasii</i> , <i>Coccidioides immitis</i>	Microbe detection
APH6DRV		<i>Escherichia coli</i> STEC, <i>Escherichia coli</i> EHEC	Microbe detection
APH6DCG		Sapovirus II, Sapovirus IV	Microbe detection
APH6AYG		<i>Blastomyces dermatitidis</i> , <i>Blastomyces gilchristii</i>	Microbe detection
APH6AXJ		<i>Aspergillus flavus</i>	Microbe detection
APH499R		<i>Encephalitozoon intestinalis</i>	Microbe detection
APH4966		<i>Clostridium septicum</i>	Microbe detection



Assay ID	Alternate assay ID	Assay name	Type
APGZJNT		<i>Candida krusei</i> , <i>Pichia kudriavzevii</i>	Microbe detection
APGZJKF		SARS-CoV-2	Microbe detection
APGZHZE		<i>Elizabethkingia meningoseptica</i>	Microbe detection
APGZH9X		<i>Aerococcus sanguinicola</i>	Microbe detection
APGZH79		<i>Providencia rettgeri</i>	Microbe detection
APGZH33		<i>Mycobacterium marinum</i>	Microbe detection
APGZGYJ		<i>Cladosporium</i> spp.	Microbe detection
APGZGRT		<i>Vibrio parahaemolyticus</i>	Microbe detection
APGZGEX		<i>Microsporium audouinii</i>	Microbe detection
APGZGDM		<i>Aeromonas hydrophila</i>	Microbe detection
APGZFNU		<i>Histoplasma capsulatum</i>	Microbe detection
APGZFK9		<i>Clostridium septicum</i>	Microbe detection
APGZFAV		<i>Streptococcus pyogenes</i>	Microbe detection
APGZFAC		<i>Neisseria meningitidis</i>	Microbe detection
APGZE73		Human papillomavirus type 68	Microbe detection
APFVPPG		<i>Achromobacter xylosoxidans</i>	Microbe detection
APFVPP2		Hepatitis B	Microbe detection
APFVNPX		<i>Clostridium difficile</i>	Microbe detection
APFVN94		<i>Staphylococcus hominis</i> subsp. <i>hominis</i>	Microbe detection
APFVN7N		Human papillomavirus type 82	Microbe detection
APFVN6G		<i>Borrelia burgdorferi</i>	Microbe detection
APFVMUC		<i>Cladosporium herbarum</i>	Microbe detection
APFVMCT		<i>Helicobacter pylori</i>	Microbe detection
APFVMAX		<i>Aspergillus fumigatus</i>	Microbe detection
APFVKXC		<i>Peptostreptococcus anaerobius</i>	Microbe detection
APFVKPE		<i>Neisseria meningitis</i>	Microbe detection
APFVK2C		<i>Clostridium perfringens</i>	Microbe detection
APEPWGW		<i>Babesia divergens</i>	Microbe detection
APEPVKP		<i>Yersinia enterocolitica</i>	Microbe detection
APEPVDU		<i>Mycobacteroides abscessus</i>	Microbe detection
APEPV6K		Human papillomavirus type 2	Microbe detection
APEPUZW		<i>Fusarium</i> spp.	Microbe detection
APEPUND		Rubella virus	Microbe detection
APEPUKX		<i>Escherichia coli</i> EAEC	Microbe detection
APEPU9W		<i>Staphylococcus lugdunensis</i>	Microbe detection
APEPTHY		<i>Fusobacterium necrophorum</i>	Microbe detection
APEPTGE		<i>Mycobacterium tuberculosis</i> complex	Microbe detection
APEPT9E		<i>Cladosporium herbarum</i>	Microbe detection
APDJZJ6		<i>Prevotella oralis</i>	Microbe detection
APDJYZZ		<i>Escherichia coli</i> EIEC, <i>Shigella</i> spp.	Microbe detection
APDJY9N		<i>Trichophyton verrucosum</i>	Microbe detection
APDJXZT		<i>Clostridium difficile</i>	Microbe detection
APDJXMF		<i>Veillonella</i> spp.	Microbe detection
APDJXJ3		<i>Streptococcus pyogenes</i>	Microbe detection
APDJ2ZX		<i>Bacillus cereus</i> group	Microbe detection
APDJ2F6		<i>Escherichia coli</i> EPEC	Microbe detection
APCE7ZY		<i>Giardia lamblia</i>	Microbe detection
APCE7WA		<i>Escherichia coli</i> EAEC	Microbe detection

Assay ID	Alternate assay ID	Assay name	Type
APCE7UE		<i>Mycobacterium ulcerans</i>	Microbe detection
APCE7FV		<i>Plesiomonas shigelloides</i>	Microbe detection
APCE6ZA		<i>Brucella</i> spp., <i>Ochrobactrum intermedium</i> , <i>Ochrobactrum ciceri</i>	Microbe detection
APCE6P2		<i>Escherichia coli</i> EPEC	Microbe detection
APCE6NP		<i>Corynebacterium amycolatum</i>	Microbe detection
APCE6H4		<i>Citrobacter braakii</i>	Microbe detection
APCE6FT		HIV-1	Microbe detection
APCE6F3		<i>Escherichia coli</i> ETEC	Microbe detection
APCE64K		<i>Aeromonas</i> spp.	Microbe detection
APCE4P6		<i>Streptococcus viridans</i> group	Microbe detection
APCE4FV		<i>Clostridium difficile</i>	Microbe detection
APCE4D4		<i>Dientamoeba fragilis</i>	Microbe detection
APCE43F		<i>Bacteroides vulgatus</i>	Microbe detection
APCE439		<i>Malassezia furfur</i>	Microbe detection
APAADYU		<i>Escherichia coli</i> EHEC	Microbe detection
APAADMN		<i>Streptococcus constellatus</i> subsp. <i>pharyngis</i>	Microbe detection
APAADM2		<i>Bartonella henselae</i>	Microbe detection
APAADFJ		Hepatitis C virus 2	Microbe detection
APAACV6		<i>Escherichia coli</i> EPEC, <i>Escherichia coli</i> EHEC	Microbe detection
APAACJC		<i>Malassezia sympodialis</i>	Microbe detection
APAACG3		<i>Aspergillus fumigatus</i>	Microbe detection
APAACDX		<i>Alternaria</i> spp.	Microbe detection
APAAAT7		<i>Cryptococcus neoformans</i>	Microbe detection
AP9HMYA		<i>Actinomyces israelii</i>	Microbe detection
AP9HMR6		<i>Acinetobacter johnsonii</i>	Microbe detection
AP9HKX2		<i>Candida auris</i>	Microbe detection
AP9HKKF		<i>Corynebacterium diphtheriae</i>	Microbe detection
AP9HJG7		<i>Campylobacter coli</i>	Microbe detection
AP9HJFG		<i>Corynebacterium jeikeium</i>	Microbe detection
AP9HJCZ		Hepatitis A	Microbe detection
AP9HJ6K		<i>Malassezia globosa</i>	Microbe detection
AP9HJ44		<i>Trichophyton</i> spp.	Microbe detection
AP7DTTD		<i>Fusarium oxysporum</i>	Microbe detection
AP7DTPE		<i>Pasteurella canis</i>	Microbe detection
AP7DTNY		<i>Mycobacterium kansasii</i>	Microbe detection
AP7DTKZ		<i>Nocardia</i> spp.	Microbe detection
AP7DTGW		Hepatitis C virus 1a	Microbe detection
AP7DRXH		<i>Salmonella</i> spp.	Microbe detection
AP7DRKN		<i>Malassezia restricta</i>	Microbe detection
AP7DR6U		<i>Mycobacterium fortuitum</i>	Microbe detection
AP7DR4Y		<i>Peptoniphilus ivorii</i>	Microbe detection
AP7DR2J		<i>Citrobacter amalonaticus</i>	Microbe detection
AP7DPVJ		<i>Corynebacterium</i> spp.	Microbe detection
AP7DP63		<i>Trichosporon mucoides</i>	Microbe detection
AP47YXH		Human papillomavirus 81	Microbe detection
AP47YVU		<i>Oligella urethralis</i>	Microbe detection
AP47YTU		<i>Giardia lamblia</i>	Microbe detection
AP47YK7		<i>Acinetobacter junii</i>	Microbe detection

Assay ID	Alternate assay ID	Assay name	Type
AP47YGX		<i>Fusarium solani</i>	Microbe detection
AP47YEC		<i>Trichophyton interdigitale</i>	Microbe detection
AP47YD7		<i>Mycobacterium fortuitum</i>	Microbe detection
AP47XKC		<i>Bacteroides fragilis</i>	Microbe detection
AP47X32		<i>Mycobacterium intracellulare</i>	Microbe detection
AP47WMK		<i>Pantoea</i> spp.	Microbe detection
AP47WK6		<i>Microsporium nanum</i>	Microbe detection
AP47V66		<i>Finegoldia magna</i>	Microbe detection
AP326G9		<i>Trichosporon mucoides</i>	Microbe detection
AP326DK		Human papillomavirus 40	Microbe detection
AP324WZ		<i>Escherichia coli</i> DAEC	Microbe detection
AP324NU		Influenza C	Microbe detection
AP324JJ		<i>Mycobacteroides abscessus</i>	Microbe detection
AP324H4		<i>Mycobacterium intracellulare</i>	Microbe detection
AP322XK		<i>Mycobacterium avium</i>	Microbe detection
AP322K9		<i>Escherichia coli</i> STEC	Microbe detection
AP3227W		<i>Prevotella</i> spp.	Microbe detection
AP2XCTN		Human papillomavirus 42	Microbe detection
AP2XCMY		<i>Entamoeba histolytica</i>	Microbe detection
AP2XCMX		<i>Escherichia coli</i> EIEC	Microbe detection
AP2XCKF		<i>Enterobius vermicularis</i>	Microbe detection
AP2XC9T		<i>Bartonella bacilliformis</i>	Microbe detection
AP2XAWT		<i>Staphylococcus haemolyticus</i>	Microbe detection
AP2XAAR		<i>Prevotella intermedia</i>	Microbe detection
AP2XA6J		Rotavirus C	Microbe detection
AP2W9M4		<i>Corynebacterium striatum</i>	Microbe detection
AP2W74U		<i>Ureaplasma parvum</i>	Microbe detection
AP2W72D		<i>Yersinia enterocolitica</i>	Microbe detection
AP2W72C		<i>Escherichia coli</i> STEC	Microbe detection
AIY90YV		<i>Trichophyton violaceum</i>	Microbe detection
AIY90LA		Human papillomavirus type 18	Microbe detection
AIY900C		HTLV-2	Microbe detection
AIX02UH		<i>Citrobacter koseri</i>	Microbe detection
AIX02T4		HIV-2	Microbe detection
AIX02SN		<i>Trichophyton soudanense</i>	Microbe detection
AIX02E2		Human papillomavirus type 16	Microbe detection
AIWR4NW		HIV-1	Microbe detection
AIWR4MF		<i>Trichophyton rubrum</i>	Microbe detection
AIWR38Q		<i>Fusobacterium nucleatum</i>	Microbe detection
AIV6HO		Hepatitis C virus 1, 2, 3, 4, 5, and 6	Microbe detection
AIV6H1		<i>Alloscardovia omnicolens</i>	Microbe detection
AIV6F7		<i>Trichophyton</i> spp.	Microbe detection
AIV6AD		<i>Streptococcus pyogenes</i>	Microbe detection
AIT979Z		<i>Neoscytalidium dimidiatum</i>	Microbe detection
AIT974H		<i>Rhizopus</i> genus	Microbe detection
AIS09S4		Adenovirus	Microbe detection
AIS0948		HTLV-1	Microbe detection

Assay ID	Alternate assay ID	Assay name	Type
AIS093R		<i>Scopulariopsis brevicaulis</i>	Microbe detection
AIRSBY0		HIV-2	Microbe detection
AIRSBXJ		<i>Sarcoptes scabiei</i>	Microbe detection
AIRSBRC		Human coronavirus HKU1	Microbe detection
AIQJDSS		HIV-1	Microbe detection
AIQJDS5		<i>Aerococcus urinae</i>	Microbe detection
AIQJDRB		<i>Wickerhamomyces onychis</i>	Microbe detection
AIPAFMX		<i>Actinotignum schaalii</i>	Microbe detection
AIPAFK3		<i>Neofusicoccum mangiferae</i>	Microbe detection
AIN1HEV		<i>Nannizia nana</i>	Microbe detection
AIN1GEV		<i>Enterococcus faecalis</i>	Microbe detection
AIMSIYA		<i>Serratia marcescens</i>	Microbe detection
AIMSIX0		Adenovirus	Microbe detection
AIMS8N		<i>Microsporium gypseum</i>	Microbe detection
AILJKU5		<i>Aspergillus</i> spp., <i>Penicillium</i> spp., <i>Eurotium</i> spp., <i>Neosartorya</i> spp.	Microbe detection
AILJKOV		Human papillomavirus type 82	Microbe detection
AILJK2F		<i>Microsporium</i> spp.	Microbe detection
AIKAMV7		<i>Microsporium</i> spp.	Microbe detection
AIKAMIN		Human papillomavirus type 73	Microbe detection
AII1OPZ		<i>Geotrichum candidum</i>	Microbe detection
AII1OCF		Human papillomavirus type 53	Microbe detection
AIHSQJR		<i>Fusarium solani</i>	Microbe detection
AIHSP57		Human papillomavirus type 26	Microbe detection
AIGJSFO		<i>Streptococcus anginosus</i>	Microbe detection
AIGJSDJ		<i>Epidermophyton floccosum</i>	Microbe detection
AIGJRZZ		Human papillomavirus type 6	Microbe detection
AIFATY3		<i>Aspergillus terreus</i>	Microbe detection
AIFATTR		Human papillomavirus type 11	Microbe detection
AIFAT7B		<i>Curvularia lunata</i>	Microbe detection
AID1VT7		Rhinovirus B	Microbe detection
AID1VNJ		Human papillomavirus type 66	Microbe detection
AICSXPH		<i>Aspergillus</i> spp.	Microbe detection
AICXMN		<i>Aspergillus niger</i>	Microbe detection
AIBJZPH		<i>Klebsiella oxytoca</i>	Microbe detection
AIBJZON		<i>Aspergillus versicolor</i>	Microbe detection
AIBJZGF		<i>Aspergillus flavus</i>	Microbe detection
AIBJA3		Human papillomavirus type 59	Microbe detection
AIAA1IF		<i>Aspergillus terreus</i>	Microbe detection
AIAA04V		Human papillomavirus type 58	Microbe detection
AI89MCM		<i>Aspergillus niger</i>	Microbe detection
AI89LY2		Human papillomavirus type 56	Microbe detection
AI89L4E		<i>Aspergillus fumigatus</i>	Microbe detection
AI70NSU		Human papillomavirus type 52	Microbe detection
AI6RPSW		Human parvovirus B19	Microbe detection
AI6RPMM		Human papillomavirus type 51	Microbe detection
AI5IRVT		<i>Corynebacterium riegellii</i>	Microbe detection
AI5IRTY		<i>Acremonium strictum</i>	Microbe detection
AI5IRGE		Human papillomavirus type 45	Microbe detection

Assay ID	Alternate assay ID	Assay name	Type
AI39TPL		<i>Corynebacterium urealyticum</i>	Microbe detection
AI39TNR		<i>Zygosaccharomyces sapae</i> , <i>Zygosaccharomyces rouxii</i>	Microbe detection
AI39TKJ		HTLV-1 and 2	Microbe detection
AI39S96		Human papillomavirus type 39	Microbe detection
AI20VHJ		<i>Trichosporon mucoides</i>	Microbe detection
AI20U98		Human herpesvirus 5	Microbe detection
AI20U6W		Adenovirus	Microbe detection
AI20U3Y		Human papillomavirus type 35	Microbe detection
AI1RXBB		<i>Trichosporon</i> spp.	Microbe detection
AI1RWXQ		Human papillomavirus type 33	Microbe detection
AI1RW4E		Human rhinovirus A	Microbe detection
AI0IYUG		Adenovirus	Microbe detection
AI0IYRI		Human papillomavirus type 31	Microbe detection
AI0IY43		<i>Trichophyton tonsurans</i>	Microbe detection
APYMKXU		Not available	Not available
APWCWM7		Not available	Not available
APU623A		Not available	Not available
APNKTZR		Not available	Not available
APKA6VV		Not available	Not available
AIX01NP		Not available	Not available
AIS083S		Not available	Not available
AIN1G7L		Not available	Not available
AILJJXH		Not available	Not available
AII1NK1		Not available	Not available
AIHSP00		Not available	Not available
AIFAS8M		Not available	Not available
AI6RO1H		Not available	Not available
AI1RXC5		Not available	Not available

## Ordering information

Product	Concentration (copies/ $\mu$ L)	Volume ( $\mu$ L)	Cat. No.
TaqMan Comprehensive Microbiota Control	1 x 10 <sup>5</sup>	1,000	A50382
	5 x 10 <sup>7</sup>	50	A50383

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