

# TrueMark™ Respiratory Panel 2.0, TaqMan™ Array Card

Catalog Number A49047

Pub. No. MAN0019511 Rev. A.0

**Note:** For safety and biohazard guidelines, see the “Safety” appendix in the *Respiratory Tract Microbiota Profiling Experiments v2 using TaqMan™ Array Cards Application Guide* (Pub. No. MAN0019507). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

For resources that contain detailed information about using the TrueMark™ Respiratory Panel 2.0, TaqMan™ Array Card, see “Related documentation” on page 2.

## Product description

TrueMark™ Respiratory Panel 2.0, TaqMan™ Array Card (Cat. No. [A49047](#)) is an efficient, easy-to-use TaqMan™ Array Card for the characterization of key respiratory tract microbes. The array card includes 44 TaqMan™ assays that have been optimized for detection of 41 respiratory tract viral and bacterial, and fungal nucleic acid, including two assays that target SARS-CoV-2. The array card also includes control assays for TaqMan™ Universal Extraction Control Organism (*B. atrophaeus*), TaqMan™ Universal RNA Spike In/Reverse Transcription (Xeno) Control, the human RNase P RPPH1 gene, and the human 18S ribosomal RNA gene. For a complete list of assays included in the array card, see “TaqMan™ assays included in the TrueMark™ Respiratory Panel 2.0, TaqMan™ Array Card” on page 1.

The assays perform well with total nucleic acid that is isolated from nasopharyngeal swab, nasopharyngeal aspirate, and bronchoalveolar lavage (BAL) research samples using the MagMAX™ Viral/Pathogen Ultra Nucleic Acid Isolation Kit.

TaqMan™ assay designs and assay target sequences have undergone rigorous bioinformatics selection and analysis to maximize strain coverage and minimize potential for off-target cross-reactivity. Qualified TaqMan™ assays also undergo performance testing to ensure that results are accurate with high levels of sensitivity and specificity.

## Contents and storage

**Table 1 TrueMark™ Respiratory Panel 2.0, TaqMan™ Array Card (Cat. No. [A49047](#); format 48 assays and up to 8 samples)**

Component	Amount	Storage
TrueMark™ Respiratory Panel 2.0, TaqMan™ Array Card	1 card	2–8°C

## TaqMan™ assays included in the TrueMark™ Respiratory Panel 2.0, TaqMan™ Array Card

The following assays are included in the TrueMark™ Respiratory Panel 2.0, TaqMan™ Array Card.

**Table 2 Assays for respiratory tract microbiota targets**

Target organism	Assay name	Nucleic acid type	Assay ID
<b>Bacteria</b>			
<i>Bordetella bronchiseptica</i> / <i>parapertussis</i> / <i>pertussis</i>	Bordetella	DNA	Ba06439624_s1
<i>Bordetella pertussis</i>	B.pertussis	DNA	Ba06439623_s1
<i>Chlamydomphila pneumoniae</i>	C.pneumoniae	DNA	Ba06439616_s1
<i>Haemophilus influenzae</i>	H.influenzae	DNA	Ba06439625_s1
<i>Klebsiella pneumoniae</i> complex	K.pneumoniae	DNA	Ba04932083_s1
<i>Legionella pneumophila</i>	L.pneumophila	DNA	Ba06439617_s1
<i>Moraxella catarrhalis</i>	M.catarrhalis	DNA	Ba06439622_s1
<i>Mycoplasma pneumoniae</i>	M.pneumoniae	DNA	Ba06439620_s1
<i>Staphylococcus aureus</i>	S.aureus	DNA	Ba04646259_s1
<i>Streptococcus pneumoniae</i>	S.pneumoniae	DNA	Ba06439619_s1
<b>Fungus</b>			
<i>Pneumocystis jirovecii</i>	P.jirovecii	DNA	Fn06439626_s1

Target organism	Assay name	Nucleic acid type	Assay ID
<b>Virus</b>			
Adenovirus	AdV_1of2	DNA	Vi99990001_po
Adenovirus	AdV_2of2	DNA	Vi99990002_po
Human Bocavirus	HBoV	DNA	Vi99990003_po
Human Coronavirus 229E	CoV_229E	RNA	Vi06439671_s1
Human Coronavirus HKU1	CoV_HKU1	RNA	Vi06439674_s1
Human Coronavirus NL63	CoV_NL63	RNA	Vi06439673_s1
Human Coronavirus OC43	CoV_OC43	RNA	Vi06439646_s1
Human Enterovirus (pan assay)	EV_pan	RNA	Vi06439631_s1
Human Enterovirus D68	EV_D68	RNA	Vi06439669_s1
Human Metapneumovirus (hMPV)	hMPV	RNA	Vi99990004_po
Human Parainfluenza virus 1	hPIV1	RNA	Vi06439642_s1
Human Parainfluenza virus 2	hPIV2	RNA	Vi06439672_s1
Human Parainfluenza virus 3	hPIV3	RNA	Vi06439670_s1
Human Parainfluenza virus 4	hPIV4	RNA	Vi99990005_po
Human Parechovirus	HPeV	RNA	Vi99990006_po
Human Respiratory Syncytial Virus A (RSVA)	RSVA	RNA	Vi99990014_po
Human Respiratory Syncytial Virus B (RSVB)	RSVB	RNA	Vi99990015_po
Human Rhinovirus 1/2	RV_1of2	RNA	Vi99990016_po
Human Rhinovirus 2/2	RV_2of2	RNA	Vi99990017_po
Human herpesvirus 3 (HHV3 – Varicella zoster Virus)	HHV3	DNA	Vi06439647_s1
Human herpesvirus 4 (HHV4 – Epstein-Barr Virus)	HHV4	DNA	Vi06439675_s1
Human herpesvirus 5 (HHV5 – Cytomegalovirus)	HHV5	DNA	Vi06439643_s1
Human herpesvirus 6 (HHV6)	HHV6	DNA	Vi06439627_s1
Influenza A	Flu_A_pan	RNA	Vi99990011_po
Influenza A/H1-2009	Flu_A_H1	RNA	Vi99990009_po
Influenza A/H3	Flu_A_H3	RNA	Vi99990010_po
Influenza B	Flu_B_pan	RNA	Vi99990012_po
Measles virus	Measles	RNA	Vi99990013_po
Middle East Respiratory Syndrome coronavirus (MERS-CoV)	MERS_CoV	RNA	Vi06439644_s1
Mumps virus	Mumps	RNA	Vi06439657_s1
Severe Acute Respiratory Syndrome coronavirus (SARS-CoV)	SARS_CoV	RNA	Vi06439634_s1
Severe Acute Respiratory Syndrome coronavirus 2 (SARS-CoV-2); S protein gene	SARS-CoV2S	RNA	Vi07918636_s1
Severe Acute Respiratory Syndrome coronavirus 2 (SARS-CoV-2); N protein gene	SARS-CoV2N	RNA	Vi07918637_s1

**Table 3 Assays for respiratory tract microbiota controls**

Control name	Assay name	Nucleic acid type	Assay ID
TaqMan™ Universal Extraction Control Organism ( <i>B. atrophaeus</i> )	B.atrophaeus	DNA	Ba06596576_s1
TaqMan™ Universal RNA Spike In/Reverse Transcription (Xeno) Control	Xeno	RNA	Ac00010014_a1
Human RNase P RPPH1 gene	RPPH1	DNA	Hs04930436_g1
Human 18S ribosomal RNA gene <sup>[1]</sup>	18S	DNA	Hs99999901_s1

<sup>[1]</sup> Human 18S ribosomal RNA is used as a manufacturing control for the array card and is not an assay specific to Respiratory Tract Microbiota profiling.

## Related documentation

Document	Pub. No.
<i>Respiratory Tract Microbiota Profiling Experiments v2 using TaqMan™ Array Cards Application Guide</i>	MAN0019507
<i>Respiratory Tract Microbiota Profiling Experiments v2 using TaqMan™ Array Cards Quick Reference</i>	MAN0019508
<i>Isolation of Nucleic Acid for Respiratory Tract Microbiota Profiling Experiments Quick Reference</i>	MAN0018526

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Revision	Date	Description
A.0	5 January 2021	New document.

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