Combining Applied Biosystems™ TaqMan® Genotyping Assays with the Applied Biosystems™ QuantStudio™ 12K Flex Real-Time PCR System delivers a sample-to-answer workflow for cystic fibrosis transmembrane conductance regulator (CFTR) mutation research. Features include:

- **Fully qualified content**—all TaqMan Assays demonstrate accurate and reproducible performance
- **Multiple sample types**—optimized for whole blood and buccal swabs
- **Flexible formats**—QuantStudio 12K Flex Real-Time PCR System provides breadth in content and the choice of four assay formats, including prespotted 384-well arrays and Applied Biosystems™ OpenArray™ plates
- **Extensive menu of targets**—design custom research panels from a menu of 199 CFTR gene targets, including full coverage of the ACMG-23 panel and majority coverage of the CFTR2 mutation list
- **Low cost per sample**—significantly lower reagent costs with OpenArray nanofluidic technology

A flexible, scalable, and low-cost real-time PCR solution to suit your CFTR gene testing needs
Focusing on gene-related disease states
Inherited diseases like cystic fibrosis are genetically determined conditions stemming from a single gene mutation, a multifactorial inheritance, or a chromosomal abnormality. Researchers have identified over 1,000 disease-related mutations in the CFTR gene.

Fully qualified CFTR assays to meet call rate and accuracy requirements
We continue to build new and valuable content to use on your Applied Biosystems™ real-time PCR system, helping you to maximize the use of your instrument. All qualified assays are tested against extracted nucleic acids (Table 1), cell-line DNA, and synthetic controls.

Results you can trust
For our CFTR gene mutation detection assays, we’ve made it easy for you to implement this area of testing into your laboratory quicker and with confidence. These assays come complete with:

- Positive controls
- User guide detailing sample-to-answer workflow from whole blood and buccal swabs
- Analytical validation services

Table 1. High-performance results with OpenArray plates.

<table>
<thead>
<tr>
<th>Product</th>
<th>Number of assays per plate</th>
<th>Number of samples per plate</th>
<th>Cat. No.</th>
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<td>CFTR TaqMan Assay Controls</td>
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<td>—</td>
<td>Contact sales representative</td>
</tr>
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To view a full list of our CFTR gene mutation assays, download the menu from thermofisher.com/cftr

Design your own custom panel from a menu of 199 CFTR TaqMan gene mutation assays at thermofisher.com/cftr or contact your sales representative.

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