



## CF StripAssays®

Identify the most relevant *CFTR* mutations and variants for newborn screening and confirmatory genotyping

Cystic Fibrosis (CF) is the most common life-limiting autosomal recessive disorder in the Caucasian population. The disease incidence is estimated to be 1 in 2,500 to 4,000 live births.

Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) represents an anion channel which is responsible for the salt-, fluid- and pH-balance in secretory and absorptive epithelial tissues.

Mutations in the *CFTR* gene lead to dysfunction of chloride transport across cell membranes.

Affected children commonly experience decreased pulmonary function along with persistent respiratory infections, pancreatic insufficiency and malnutrition.

*CFTR* genotyping enables early diagnosis in newborn screening and minimizes emotional stress for parents.

ViennaLab offers reliable and convenient reverse-hybridization assays tailored to population-specific mutations in different regions.

CF StripAssay®	<b>4-410</b>	Detection of 34 common <i>CFTR</i> mutations and the IVS8 variants 5T/7T/9T
CF StripAssay® TUR	<b>4-420</b>	Detection of 24 common <i>CFTR</i> mutations and the IVS8 variants 5T/7T/9T found in the Turkish population
CF StripAssay® GER	<b>4-430</b>	Detection of 31 common <i>CFTR</i> mutations found in the German population

The Assay

## ViennaLab CF StripAssays®

- Simple protocol for complex diagnostic questions
- Manual or automated processing
- No expensive lab equipment
- Ready-to-use reagents
- CE/IVD-labeled kits including DNA extraction

StripAssays®			
Mutations	CF	CF TUR	CF GER
CFTRdel2,3 (21kb)	x		x
E60X			x
G85E	x	x	x
E92X		x	x
E92K		x	
394delTT	x		
R117H	x		
Y122X	x		
M152V		x	
621+1G>T	x	x	x
711+1G>T	x		
1078delT	x		x
R334W	x	x	x
I336K			x
R347H	x	x	
R347P	x	x	x
IVS8 T5/T7/T9	x	x	
A455E	x		x
I507del (-ATC)	x		x
F508del (-CTT)	x	x	x
1677delTA		x	x
1717-1G>A	x	x	x
G542X	x	x	x

StripAssays®			
Mutations	CF	CF TUR	CF GER
G551D	x		x
R553X	x		x
R560T	x		
1898+1G>A	x		
2043delG		x	
2143delT	x		x
2183AA>G	x	x	x
2184insA	x	x	x
2184delA	x	x	x
E831X		x	
2789+5G>A	x	x	x
3120+1G>A	x		
3272-26A>G	x		x
Y1092X (C>A)	x		x
W1098X (TGA)		x	
M1101K			x
D1152H		x	
R1158X		x	
R1162X	x	x	x
3659delC	x		x
3849+10kbC> T	x		x
3905insT	x		x
W1282X	x	x	x
N1303K	x	x	x

## The three steps of the StripAssays®

Step	Requirement
<b>1. Amplification:</b> Multiplex PCR. Simultaneous biotin-labeling	Thermocycler
<b>2. Hybridization:</b> Directly on the StripAssay® teststrips	Incubator
<b>3. Identification:</b> Labeled products detected by streptavidin-alkaline phosphatase	Naked eye or scanner & software

Cat.no.:

CF StripAssay® 4-410 (10 tests/kit) • CF StripAssay® TUR 4-420 (10 tests/kit) • CF StripAssay® GER 4-430 (10 tests/kit)

ViennaLab offers StripAssays® for a wide range of diagnostic applications.

Visit [www.viennalab.com](http://www.viennalab.com)

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