AmplideX® PCR/CE CFTR Kit*

Offering the broadest coverage[†] of pathogenic *CFTR* variants of any commercially available, targeted testing kit

The AmplideX® PCR/CE *CFTR* Kit* brings the simplicity and scalability of AmplideX technology to *CFTR* variant detection. Offering the streamlined detection of 67 pathogenic variants, covering approximately 93%[†] of the US population, the assay provides the broadest coverage of any commercially available, targeted testing kit. The assay is optimized for use on widely established laboratory equipment and delivers genotype results from DNA in just under five hours.



Figure 1. AmplideX PCR/CE CFTR Kit* workflow.

Mix A				Mix B			
F508del R117H W1282X D1152H G542X G551D R1070Q N1303K 3849+10kbC>T	L206W 2789+5G>A 621+1G>T 3120+1G>A R553X 1717-1G>A I507del R334W P5L	G85E R347P/H 2184insA A455E R347H/P R560T 3272-26A>G 3659delC R1162X	S945L 1898+1G>A 2184delA 711+1G>T G622D IVS8 PolyT IVS8 PolyTG	V456A R117C 2789+2insA <i>CFTR</i> dele2,3 I618T F311del R1066C 3876delA 394delTT	G970D R1070W 1154insTC 1548delG 2183AA>G E60X P67L S549N 3905insT	Q493X R1158X 1811+1.6kbA>G V520F 1078delT 1677delTA M1101K Q890X Y1092X*	Y122X <i>CFTR</i> dele20 R75X 1898+5G>T A559T R352Q

 $\ensuremath{\mbox{RED}}$ variants indicate their inclusion in the ACMG23 listing. *Detects both C>A and C>G

Table 1. List of variants detected by the AmplideX PCR/CE CFTR Kit*.



AmplideX[®] PCR/CE CFTR Kit*

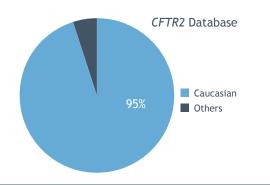


Figure 2A. Ethnic diversity of 89K patients in CFTR2 database.

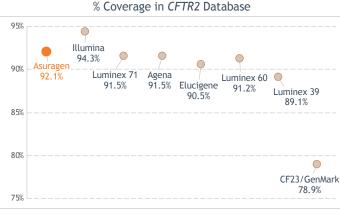


Figure 2C. Percent coverage of variants detected by commercial kits based on frequencies observed in the *CFTR2* database.

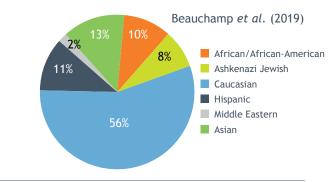


Figure 2B. Ethnic diversity of 115K subjects in US study.

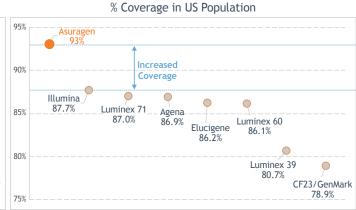


Figure 2D. Percent coverage of variants detected by commercial kits based on frequencies observed in the US population.

Assay Metric	Description
Assay Format	 2 PCR reactions covering 67 pathogenic variants in <i>CFTR</i> Gene Content includes variants representative of diverse ethnicities based on recent large-scale studies Similar workflow to AmplideX PCR/CE Kits (<i>FMR1</i>, <i>SMN1/2</i> Plus)
Output	 Reports mutational status and zygosity of each variant included in the kit (SNPs, indels, repeats) PDF and CSV samples reports provides flexibility to customer Automated, push-button data reporting via AmplideX Reporter software
Sample Types	Blood
Turnaround Time	Less than 5 hours
System Compatability	Applied Biosystems™ Genetic Analyzers
Catalog Number	50 Reaction Kit: A00076 • 100 Reaction Kit: A00077

Table 2. AmplideX PCR/CE CFTR Kit* Target Product Specifications.



Asuragen, Inc. 2150 Woodward Street, Suite 100 Austin TX 78744 www.asuragen.com

*Product in development. Specifications not finalized. *Beauchamp, et al. Genet Med. 2019 Nov;21(11):2569-2576. , 2000-0161 Rev A