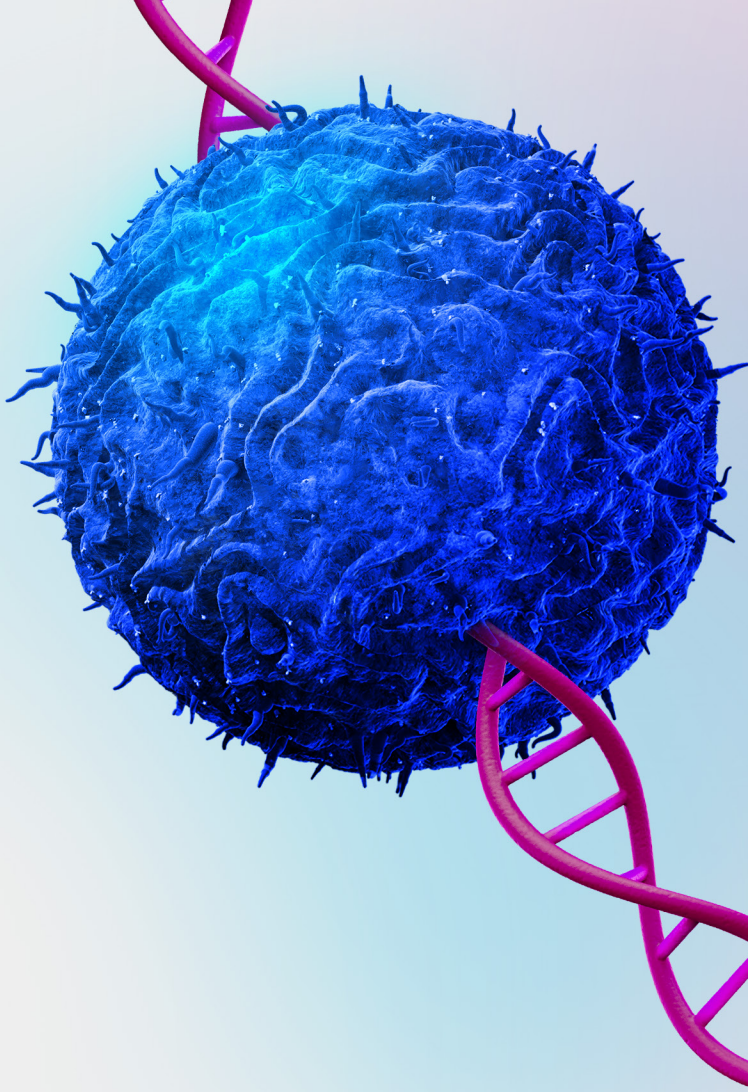
bio-techne®

Asuragen®



AmplideX® Nanopore Carrier Plus Kit*

A Long-range PCR and Any-length Sequencing Solution for Carrier Screening

The AmplideX® Nanopore Carrier Plus Kit* evaluates 11 genes with high carrier prevalence, including *FMR1, SMN1/2, HBA1/2, GBA, F8* intron inversions, *CYP21A2, TNXB, CFTR,* and *HBB* in 4 PCR enrichment tubes. With a single, flexible workflow designed to consolidate existing assays and methods, Carrier Plus can be used as a primary genetic analysis method or to complement existing NGS workflows for large panels. Use of Long Read Sequencing also provides additional insight compared to existing methods (e.g. AGG interruptions in *FMR1*) and reducing the need for reflex testing. The AmplideX® Reporter software further simplifies data analysis and reporting for a seamless, streamlined carrier screening assay.

One Workflow, 9 High-Prevalence Carrier Screening Conditions, 11 Genes

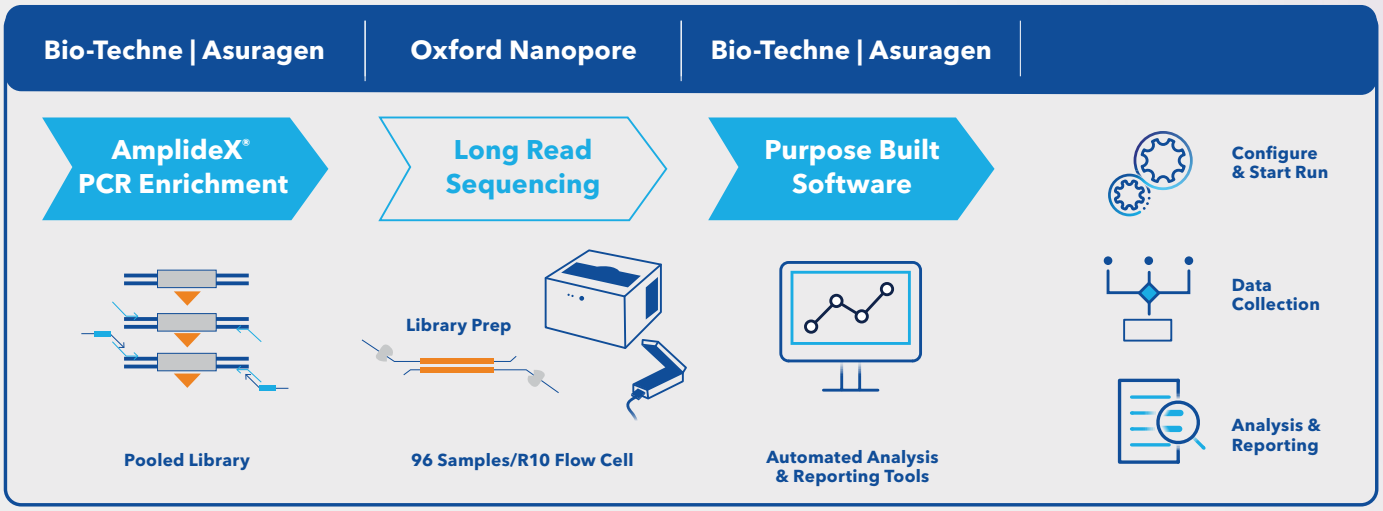


Figure 1- High level assay workflow

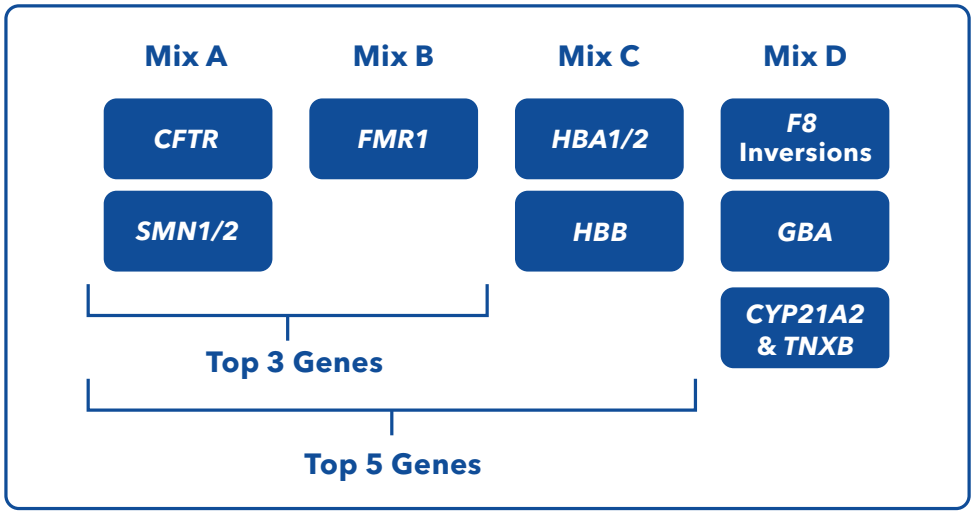


Figure 2A. Composition of 11 genes across 4 tubes

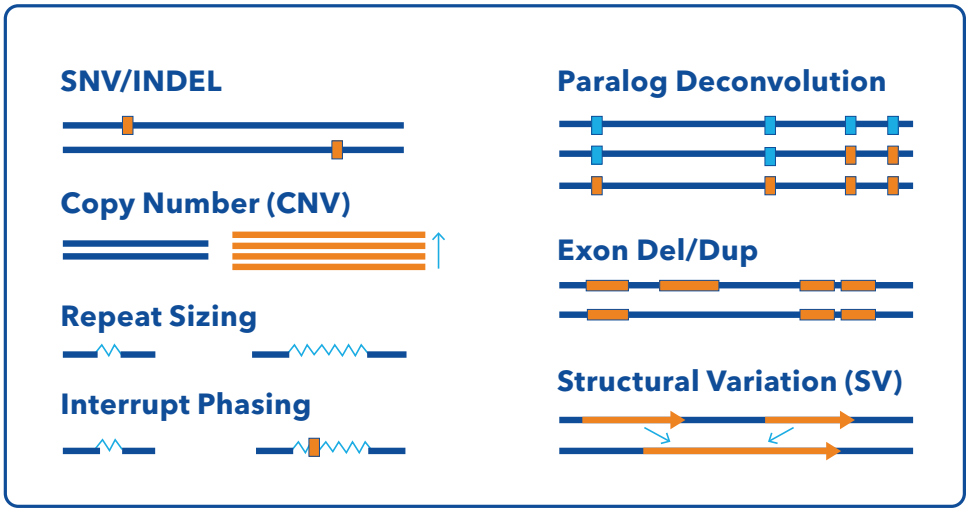


Figure 2B. Different genetic variations detected and analyzed by the assay

AmplideX® Nanopore Carrier Plus Kit Proposed Product Features

Sample Type	Whole blood, cheek swab, saliva
Extraction	Multiple automated and manual methods, 20-80 ng input per PCR reaction
Workflow	Up to 4 PCRs per sample, 1 library prep per sample, 1 instrument for key hard-to-decipher genes
Throughput	Up to 96 samples per MinION flow cell
Instruments	Various thermocycler models; ONT sequencers (Mk1B, GridION), R10.4.1 flow cells and reagents; will support Q-Line
Software	Amplidex Reporter interface with ONT instrument setup/execution and analysis