

AmplideX® Nanopore Carrier Plus Kit^{*+}

A Long-Range PCR and Long-Read Sequencing Solution for Carrier Screening Research

The AmplideX Nanopore Carrier Plus Kit interrogates 11 genes that contribute to high at-risk couple rate in carrier screening. The design utilizes four mixes across the 11 genes with modularity to allow any combination of testing.

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. The use of long-read sequencing provides additional insight compared to existing methods (e.g. AGG interruptions in *FMR1*), reducing the need for reflex testing. The AmplideX Reporter software further simplifies data analysis and reporting for a seamless, streamlined workflow.

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

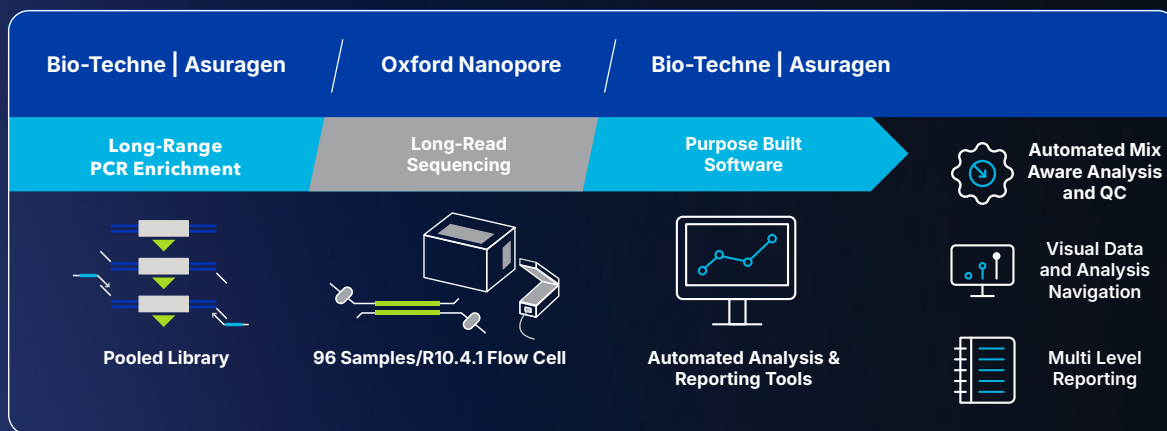


Figure 1. High level assay workflow



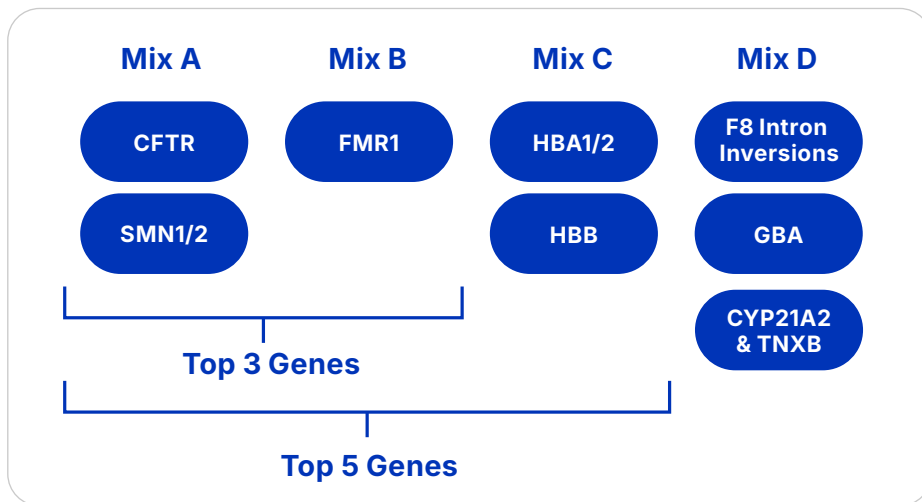
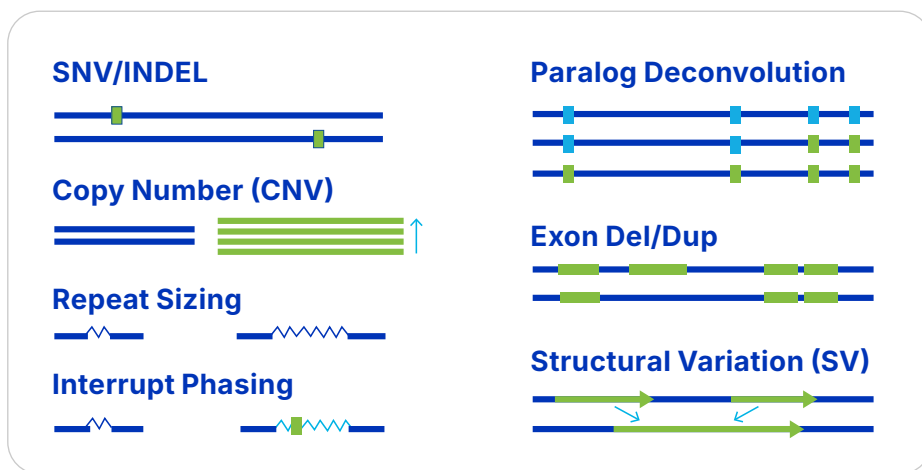


Figure 2A. Panel design of 11 genes across 4 tubes



AmplideX Nanopore Carrier Plus Kit Proposed Product Features

Sample Type	Whole blood, cheek swab, saliva
Extraction	Multiple automated and manual methods, 40-100 ng input per PCR reaction
Workflow	Up to four PCRs per sample, one library prep per sample, one workflow for key hard-to-decipher genes
Throughput	Up to 96 samples per MinION flow cell
Instruments	Supports various thermocycler models; ONT sequencers (Mk1B, GridION), R10.4.1 flow cells and reagents
Software	MinKNOW sequencing setup/execution and AmplideX Reporter interface for data analysis



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†This product is under development; performance characteristics and final product features to be determined.

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