



ACCEL-AMPLICON® PANELS

Features

- Single-Tube Assay
- Ready-to-Sequence Libraries in 2 Hours
- 10 ng Input DNA
- Average Amplicon Size of 138-149 bp
- Contiguous Coverage
- Coverage Uniformity > 95%
- On Target > 95%

Introduction

Amplicon sequencing has emerged as a reliable, cost-effective method for ultra-deep targeted sequencing. This highly adaptable approach is especially applicable for in-depth interrogation of numerous oncology-related targets in multiple samples in a single run. Swift offers Accel-Amplicon Panels focused on comprehensive and hotspot screening of clinically relevant variants significant in a variety of solid tumors, such as breast and lung cancers as well as hematological malignancies.

Accel-Amplicon Panels are comprised of tens up to thousands of primer pairs in a single-tube format which are optimized for sequencing on Illumina® platforms. Primer pairs in the panels are designed for compatibility with the damaged or short DNA fragments from both formalin-fixed, paraffin-embedded (FFPE) and circulating, cell-free DNA (cfDNA) samples. A fast and easy single-tube workflow produces the best-in-class performance for on-target percentage and coverage uniformity, enabling variant discovery and confirmation.

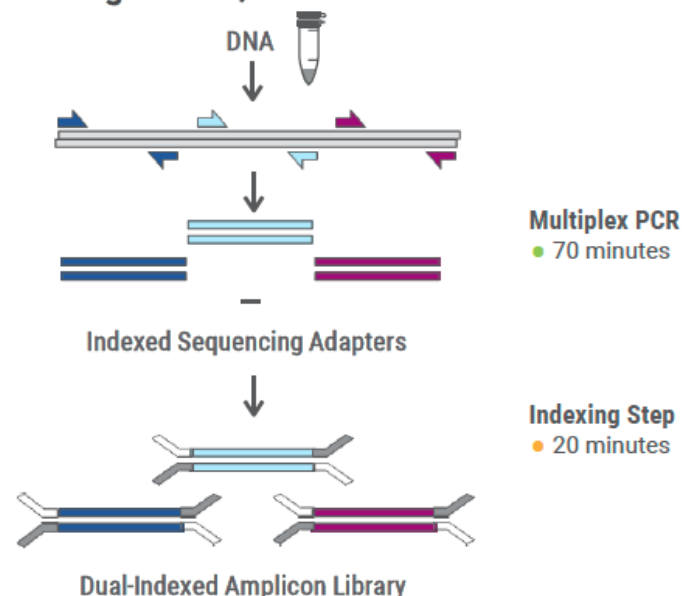
Publication Highlight

The following publication features a single-tube, 2-hour workflow and robust variant calling of the Accel-Amplicon CFTR Panel. Swift's panel performs equivalently to the "gold standard" set by the Sanger Sequencing method and outperforms other currently available panels on the market.

Read the full publication: "Newborn screening quality assurance program for CFTR mutation detection and gene sequencing to identify Cystic Fibrosis." Journal of Inborn Errors of Metabolism & Screening. 2016, Volume 4:1-11.



Single-Tube, 2-Hour Workflow



The single-tube workflow includes two brief incubations to generate the multiplex amplicon targets and add a unique combination of Illumina-compatible indexed adapters, creating up to 384 uniquely-indexed libraries for multiplexing on a single sequencing run.



Data Analysis & Annotation Through
Saphetor VarSome Platform
for Human Panels

The Accel-Amplicon NGS Panels are available in two formats:

Accel-Amplicon Pre-Designed NGS Panels— Expertly designed panels using content from peer-reviewed publications and leader input. Includes assays for cancer genes, rare diseases, and sample tracking.

Or, you may go fully custom with

Accel-Amplicon Custom NGS Panels — Start from scratch. We'll help you through the design process and validate a unique panel for you to cover exactly what you need.

Specifications

Feature	Swift Amplicon 16S+ITS Panel
Input DNA (test range)	1 ng (10 pg to 50 ng)
Primers Pairs	7 total: 5 (16S rRNA) + 2 (fungal ITS)
Average Amplicon Size	475 bp
Genes Covered	16S rRNA (V1-V9), Fungal ITS1+ITS2
Assay Format	Single tube multiplex PCR; 2 hours DNA-to-library
Components Provided	Target specific primer pool, PCR and library preparation reagents, including indexed adapters
Depth Recommendations	100K-300K reads per sample
Multiplexing Capability	384 libraries
Compatible Platforms	Illumina® platforms – inquire regarding other platforms

Ordering Information

Workflow Component	Product Name	Catalog Number
Amplicon Panels	Swift Amplicon® 16S+ITS Panel (48 rxns, includes 8x12 combinatorial dual indexed adapters)	AL-51648
	Swift Amplicon® 16S+ITS Panel (96 rxns, no indexing included , choose from 384 indexing)	AL-51696
	Swift Amplicon® SARS-CoV-2 Panel (48 rxns, includes 8x12 combinatorial dual indexed adapters)	AL-COV48
	Swift Amplicon® HS Panel (24 rxns, includes 8x12 combinatorial dual indexing primers)	HS-51024
	Accel-Amplicon® Sample_ID Panel (48 rxns, includes 8x12 combinatorial dual indexed adapters)	AL-50048
	Accel-Amplicon® Sample_ID Panel (96 rxns, no indexing included , choose from 384 indexing)	AL-50096
	Accel-Amplicon® CFTR Panel (48 rxns, includes 8x12 combinatorial dual indexed adapters)	AL-55048
	Accel-Amplicon® Lung Cancer Panel (48 rxns, includes 8x12 combinatorial dual indexed adapters)	AP-LG8048
	Accel-Amplicon® Colorectal Cancer Panel (48 rxns, includes 8x12 indexed adapters)	AP-CR8048
	Accel-Amplicon® Lynch Syndrome Panel (48 rxns, includes 8x12 indexed adapters)	AP-LN8048
	Accel-Amplicon® Myeloid Panel (48 rxns, includes 8x12 indexed adapters)	AP-MY8048
	Accel-Amplicon® 57G Pan-Cancer Profiling Panel (48 rxns, includes 8x12 indexed adapters)	AP-PC8048
	Accel-Amplicon® 56G Oncology Panel v2 (48 rxns, includes 8x12 indexed adapters)	AL-56248
	Accel-Amplicon® 56G Oncology Panel v2 (96 rxns, no indexing included , choose from 384 indexing)	AL-56296
	Accel-Amplicon® EGFR Pathway Panel (48 rxns, includes 8x12 indexed adapters)	AL-51048
	Accel-Amplicon® BRCA1 and BRCA2 Panel (48 rxns, includes 8x12 indexed adapters)	AL-52048
	Accel-Amplicon® BRCA1, BRCA2, and PALB2 Panel (48 rxns, includes 8x12 indexed adapters)	AL-57048
	Accel-Amplicon® Comprehensive TP53 Panel (48 rxns, includes 8x12 indexed adapters)	AL-53048
Accel-Amplicon® Sample_ID Panel (48 rxns, includes 8x12 combinatorial dual indexed adapters)	AL-50048	
CDI Adapters	Swift Amplicon® Set 1A Combinatorial Dual Indexed Adapters (96 rxns)	AL-S1A96
	Swift Amplicon® Set 1B Combinatorial Dual Indexed Adapters (96 rxns)	AL-S1B96
	Swift Amplicon® Set 2A Combinatorial Dual Indexed Adapters (96 rxns)	AL-S2A96
	Swift Amplicon® Set 2B Combinatorial Dual Indexed Adapters (96 rxns)	AL-S2B96
VarSome Token	VarSome Data Analysis Token (48 rxns)	AL-VS48



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