



SWIFT AMPLICON SARS-CoV-2 RESEARCH PANEL

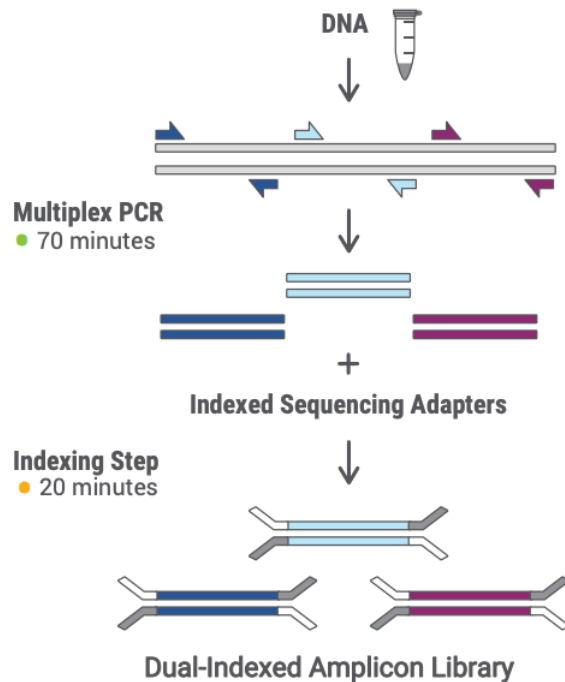
Whole viral genome single-tube NGS assay

Description

The Swift Amplicon SARS-CoV-2 Panel offers a robust NGS workflow that provides optimal coverage and NGS data quality on Illumina® sequencing platforms. This kit leverages patented multiplex PCR technology, enabling library construction from 1st-strand or 2nd-strand cDNA using tiled primer pairs to target the entire 29.9 kb viral genome with a single pool of multiplexed primer pairs. Primers were designed against the NCBI Reference Sequence NC_045512.2 (Severe acute respiratory syndrome coronavirus 2 isolate Wuhan-Hu-1, complete genome). *In silico* analysis predicted zero off-target products from human host genome sequences. Primers have not been functionally validated on viral template material at this time. Please inquire with your Swift sales representative or distributor to review a copy of the primer design file.

Specifications

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.

Feature	Specification
Design Coverage	98% (29,313 of 29,903 total bases)
Panel Information	341 amplicons, sized 116-255 bp (average 150 bp)
Recommended Input	1 ng viral cDNA
Time	2 hours cDNA-to-Library
Components Provided	Target-specific multiplex primer pool • PCR and library prep reagents 8 x 12 Combinatorial Dual Indexed Adapters Note: kit does not include RT module or magnetic beads
Multiplexing Capability	96 included • Up to 384 (see below)
Recommended Depth	1M reads per library

Ordering Information

Product Name	Indexing Included	Catalog Number
Swift Amplicon SARS-CoV-2 Panel (48 rxns)	8 i5 x 12 i7 (96)*	AL-COV48

* Purchase 2 kits to multiplex 96 samples. Combine with Catalog Nos. AL-S1A96, AL-S1B96, AL-S2A96, and/or AL-S2B96 to multiplex up to 384 samples.



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