



Accel-Amplicon® BRCA1, BRCA2, and PALB2 Panel

The Accel-Amplicon *BRCA1*, *BRCA2*, and *PALB2* panel contains 302 amplicons with an average size of 149 bp that covers the entire coding sequence of *BRCA1* and *BRCA2* genes, as well as all coding exons and 5' and 3' UTR regions of *PALB2*. This product is a complete kit that includes all components necessary for generating ready-to-sequence libraries, including primer pairs and indexed sequencing adapters.

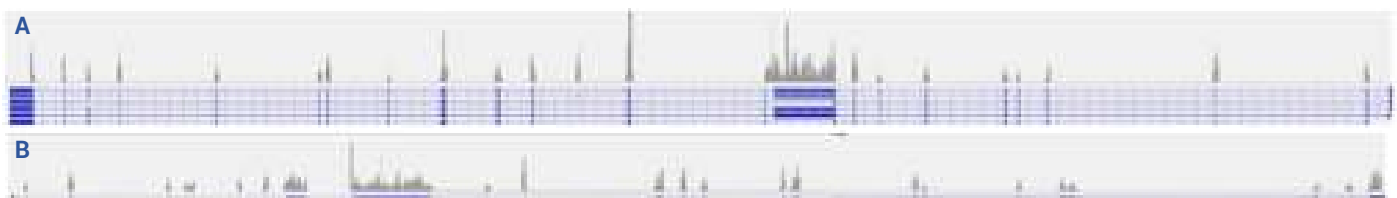


The data below demonstrates the performance of the Accel-Amplicon *BRCA1*, *BRCA2*, and *PALB2* Panel on a variety of sample types.

Input DNA	Sample Type	Reads Aligned	% Bases On Target Aligned	Mean Coverage	% Coverage Uniformity
NA12878	Coriell	464,833	98.4	97.6	98.2
HD710	Horizon Diagnostics	462,032	98.5	97.9	98.0

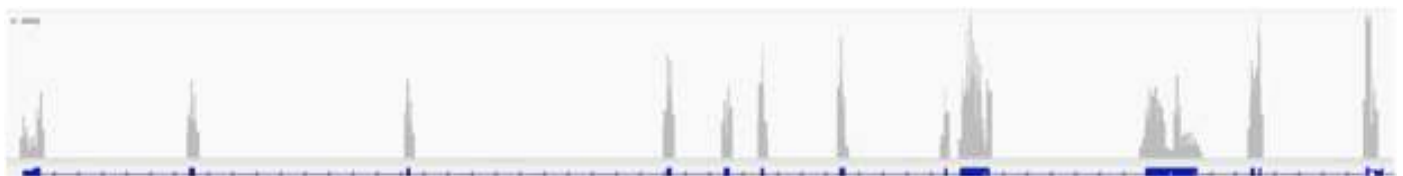
The data demonstrates the performance of the Accel-Amplicon *BRCA1*, *BRCA2*, and *PALB2* Panel on a variety of sample types. The Accel-Amplicon *BRCA1*, *BRCA2*, and *PALB2* Panel was used to prepare libraries from 10 ng input of high quality Coriell NA12878 gDNA. Sequencing was performed using MiniSeq® Reagents.

Comprehensive Coverage of Coding Sequences of *BRCA1* and *BRCA2*



Coverage of all coding exons of the *BRCA1* (A) and *BRCA2* (B) genes by the Accel-Amplicon *BRCA1* and *BRCA2* Panel are represented in a Sashimi plot (IGV; Broad Institute).

Comprehensive Coverage, Including UTRs of *PALB2* Gene



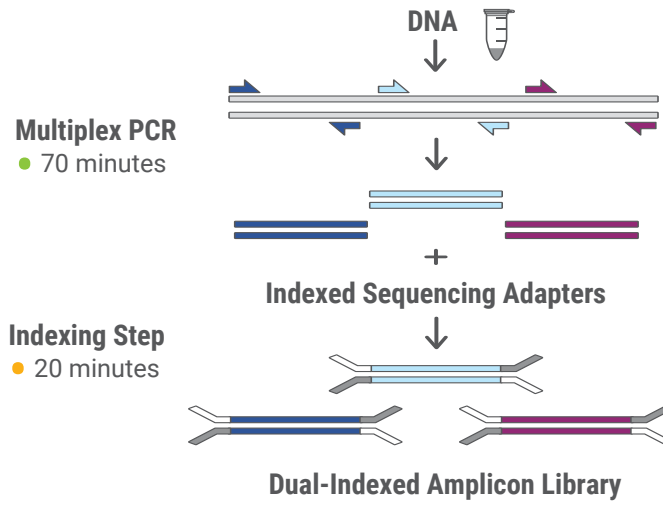
Coverage of all coding exons and 5' and 3' UTR regions of the *PALB2* gene by Accel-Amplicon *BRCA1*, *BRCA2*, and *PALB2* Panel are represented in a Sashimi plot (IGV; Broad Institute).

Product Specifications

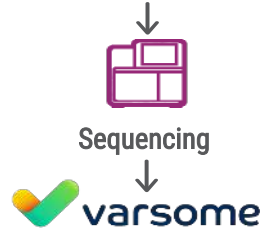
Specification	Feature	
Input	Input DNA Required*	10-25 ng
	Sample Types	FFPE, cfDNA, fresh frozen, genomic DNA
Workflow	Time Required	2 hours
	Multiplexing on MiSeq v2 Nano at 500X Average Depth (germline)	13
	Multiplexing on MiSeq v2 at 5000X Average Depth (somatic)	19
Design	Number of Amplicons	302
	Amplicon Size	Average 149 bp
	Number of Genes Covered	3
	Total Target Size	28.96 kb
Performance	On Target Percentage	> 95%
	Coverage Uniformity at >20% of Mean	> 95%

*As quantified by qPCR. Qubit® represents amplifiable DNA content more accurately than NanoDrop®, however is still not as accurate as the qPCR assay. For sample types with more consistent high quality DNA including whole blood, fresh frozen samples, and cultured cells, quantification by Qubit is a reliable indicator of amplifiable content.

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 96 uniquely-indexed libraries for multiplexing on a single sequencing run.



Data Analysis & Annotation Through Saphetor VarSome Platform

Ordering Information

Product Name	Indexing Included	Catalog No.
Accel-Amplicon BRCA1, BRCA2, and PALB2 Panel (48 rxns)	8 i5* X12 D701-712	AL-57048
VarSome Data Analysis Token (48 Samples)	N/A	AL-VS48

i5* Illumina Truseq CD indexes D501-D508

Visit www.swiftbiosci.com for easy ordering.



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