



Accel-Amplicon® EGFR Pathway Panel

The Accel-Amplicon EGFR Pathway panel contains 17 amplicons with an average size of 136 bp that cover hotspots in four key genes in the *EGFR* pathway: *BRAF*, *KRAS*, *NRAS*, and contiguous regions of *EGFR*.

EGFR Pathway Panel Performance with Horizon's 1% Multiplex I cfDNA Reference Standard

The Accel-Amplicon EGFR Pathway Panel consistently detected validated variants at the expected frequency in three replicates from 10 ng of the Horizon Diagnostics Multiplex cfDNA Reference



Gene	AA	CHR	POS	REF	ALT	Expected Allele Frequency	Detected Allele Frequency (N=3)	Standard Deviation
NRAS	A59T	1	115256536	C	T	1.3	1.0	0.5
NRAS	Q61K	1	115256530	G	T	1.3	1.3	0.3
KRAS	G12D	12	25398284	C	T	1.3	1.3	0.3
EGFR	L858R	7	55259515	T	G	1.0	0.8	0.0
EGFR	T790M	7	55249071	C	T	1.0	1.1	0.1
EGFR	ΔE746-A750	7	55242465-55242479	Del15bp	–	1.0	0.5	0.2
EGFR	V769-D770insASV	7	55248998	A	TGGC-CAGCG	1.0	0.8	0.2

The variants were called by LoFreq 2.1.1 (Genome Institute of Singapore) and GATK Haplotype-Caller (Broad Institute). When examining sporadic variants among the replicates, the majority of background variants were present at less than 0.6%. No sporadic variants greater than 0.6% were detected. **None of these variants were detected in the 100% Multiplex I Wild Type cfDNA Reference Standard.**

Features

- Single-tube multiplexed assay
- Ready-to-sequence libraries in 2 hours
- Inputs as low as 10 ng
- Contiguous region coverage with overlapping amplicons

Benefits

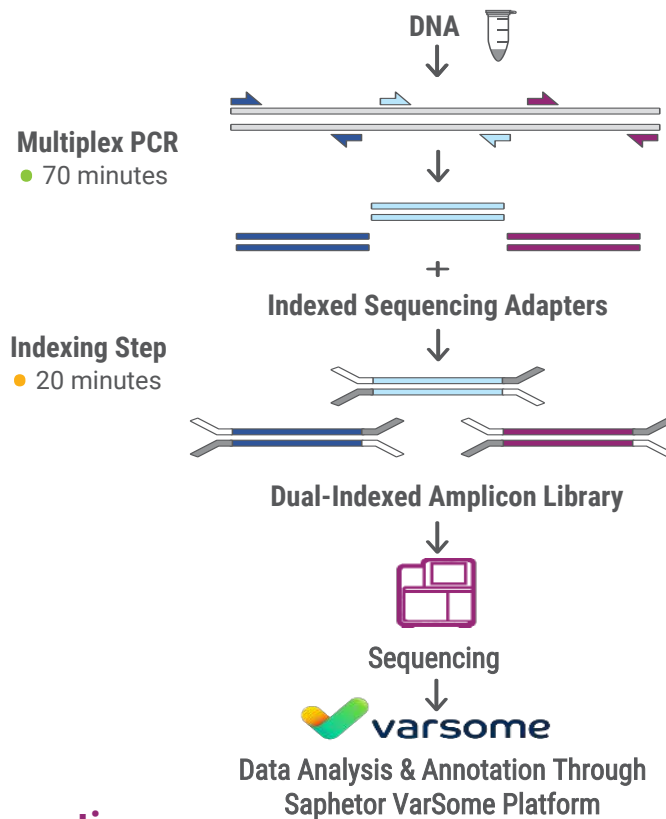
- Average Amplicon size of 136 bp for compatibility with cfDNA and FFPE
- Limit of detection as low as 1%
- On-target specificity and coverage uniformity > 95%
- Leverages the high fidelity performance of the Illumina® platform
- Complete library generation in a single kit

Product Specifications

Feature	Specification
Input DNA Required	10-25 ng*
Time Required	2 hours
Number of Amplicons	17
Amplicon Size	107-155 bp (average 136 bp)
Total Target Size	1.5 kbp
On Target Percentage	> 95%
Limit of Detection (at 10 ng for Base Substitutions)	1-5%
Multiplexing on MiSeq v2 Nano at 5000X Depth	20
Multiplexing on MiSeq v2 at 5000X Depth	350

*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.

Ordering Information

Product Name	Indexing Included	Catalog No.
Accel-Amplicon EGFR Pathway Panel (48 rxns)	8 i5* X12 D701-712	AL-51048
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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