



## Accel-Amplicon® Comprehensive TP53

The Accel-Amplicon Comprehensive TP53 panel contains 21 amplicons with an average size of 140 bp that provides comprehensive coverage of all coding regions of TP53.

Accel-Amplicon Comprehensive TP53 Panel is compatible with short DNA fragments from both FFPE and cfDNA samples. This product is a complete kit that includes all elements necessary for generating ready-to-sequence libraries, including primer pairs and indexed sequencing adapters.



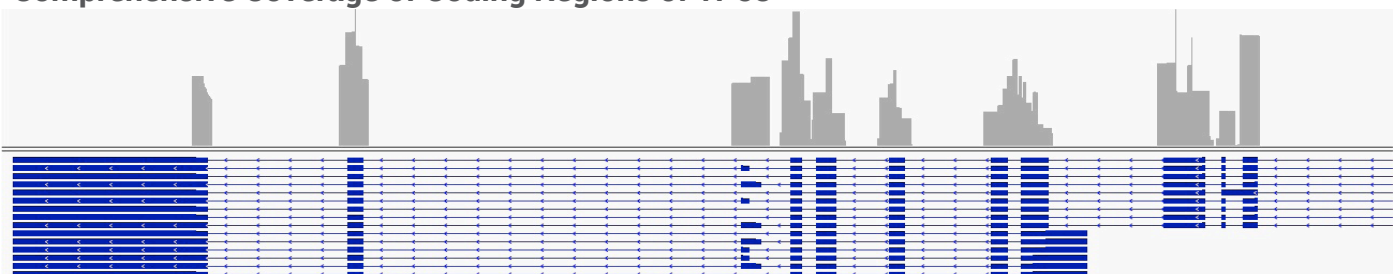
### Reproducible Variant Calling from AcroMetrix® Oncology Hotspot Control

Libraries prepared with the Accel-Amplicon Comprehensive TP53 Panel accurately detected validated variants within the expected frequency range from 10 ng of AcroMetrix Oncology Hotspot Control DNA.

Cosmic-ID	SNP_ID	Amino Acid Change	POS	REF	ALT	Expected Allele Frequency (%)	Detected Allele Frequency (%)
COSM13747	N/A	R72P	7579472	G	C	Genomic variant	92.14
COSM10663	rs121913344	E56*	7579521	C	A	5-15	6.83
COSM10710	rs201744589	Q38*	7579575	G	A	5-15	6.83
COSM10660	rs28934576	E51*	7579536	C	A	5-15	6.67
COSM10662	rs11540652	Y234C	7577580	T	C	5-15	6.46
COSM6932	rs28934575	R306*	7577022	G	A	5-15	6.40
COSM10812	rs28934573	R273H	7577120	C	T	5-15	6.25
COSM10808	rs148924904	Y220C	7578190	T	C	5-15	5.56
COSM10739	rs193920817	E339*	7574012	C	A	5-15	5.46
COSM10670	rs121912654	R342*	7574003	G	A	5-15	5.41
gDNA26-COSM250061	rs1042522	G245S	7577548	C	T	5-15	4.08

The variants were called by LoFreq 2.1.1 (Genome Institute of Singapore) and GATK Haplotype-Caller (Broad Institute).

### Comprehensive Coverage of Coding Regions of TP53



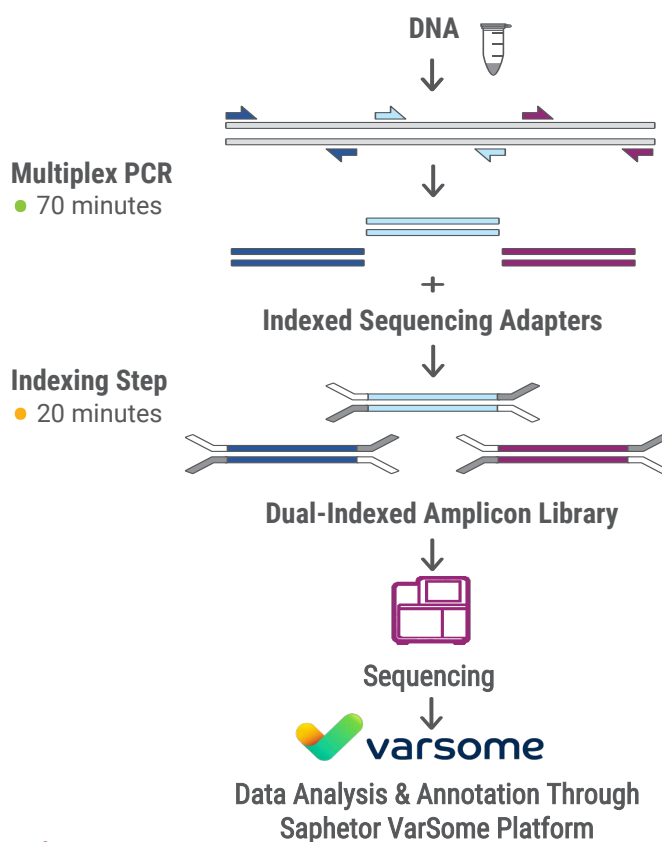
Coverage of all coding regions of the TP53 gene by the Accel-Amplicon Comprehensive TP53 Panel are represented in a Sashimi plot (IGV; Broad Institute).

## Product Specifications

Feature	Specification
Input DNA Required	10-25 ng*
Time Required	2 hours
Number of Amplicons	21
Amplicon Size	106-154 bp (average 140 bp)
Total Target Size	1.8 kbp
On Target Percentage	> 95%
Limit of Detection (at 10 ng for Base Substitutions)	1-5%
Multiplexing on MiSeq v2 Nano at 5000X Average Depth	19 Samples
Multiplexing on MiSeq v2 at 5000X Depth	285 samples+

\*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 Comprehensive TP53 Panel (48 rxns)	8 i5* X12 D701-712	AL-53048
VarSome Data Analysis Token (48 Samples)	N/A	AL-VS48

i5\* Illumina Truseq CD indexes D501-D508

Visit [www.swiftbiosci.com](http://www.swiftbiosci.com) for easy ordering.



**Swift Biosciences, Inc.**

674 S. Wagner Road, Suite 100 • Ann Arbor, MI 48103 • 734.330.2568 • [www.swiftbiosci.com](http://www.swiftbiosci.com)

© 2016, Swift Biosciences, Inc. The Swift logo and Accel-Amplicon are trademarks of Swift Biosciences. This product is for Research Use Only. Not for use in diagnostic procedures. Illumina, MiSeq, and MiniSeq are registered trademarks of Illumina, Inc. AcroMetrix is a registered trademark of Thermo Fisher Scientific Inc. DTS-006 Rev 1