



AviSeqTM
Genomic DX



NEXT GENERATION SEQUENCING LIBRARY PREPARATION KITS

www.avcna.net



AVICENNATM
Reliably Accurate

KEY FEATURES OF THE AVISEQ™ GENOMICS DX RANGE



CANCER

BRCA

- Analyse breast cancer genetic markers in the BRCA1 and BRCA2 genes
- Detects disease specific SNPs and Indels in DNA
- Requires blood and tissue samples
- Just 10ng/ul per reaction is required
- Prepare sequence ready libraries in approx. 6hrs (~8 samples)

Kit Ref#	Test per Kit
AVG104016	16
AVG104096	96

BRCA PLUS

- Analysis of breast, ovarian and prostate cancer genetic markers
- Targets the BRCA1, BRCA2 and TP53 genes
- Detects disease specific germline and somatic mutations in DNA
- Primary samples required including blood and tissue samples

Kit Ref#	Test per Kit
AVG100016	16
AVG100096	96

ONCO 20

- NGS analysis of genetic markers associated with breast, ovarian and prostate cancer as well as DNA repair deficiency and Li Fraumeni Syndrome
- Targets 22 key genes
- Detection of germline mutations including SNPs, Indels and CNVs
- Requires DNA from blood and tissue samples

Kit Ref#	Test per Kit
AVG101016	16
AVG101096	96

ONCO 50

- NGS analysis of cancer and hereditary tumour syndrome genes
- Targets 50 genes
- Detection of germline mutations in DNA
- Sample types requires blood, liquid biopsies/body fluids and tissue samples

Kit Ref#	Test per Kit
AVG105016	16
AVG105096	96

COLUNG

- NGS analysis of markers of colon and lung cancer
- Targets the BRAF, PIK3CA, EGFR, KRAS and NRAS genes
- Detects disease specific germline and somatic mutations
- Requires DNA from blood and tissue (FFPE, fresh, frozen, FNA, etc.,) samples

Kit Ref#	Test per Kit
AVG102016	16
AVG102096	96

THYRO

- Specifically analyse 14 genes associated with thyroid carcinomas
- Detects disease specific germline and somatic mutations (SNPs and Indels)
- Requires DNA from blood and tissue (fresh, frozen, FFPE, FNA, etc.,) samples

Kit Ref#	Test per Kit
AVG103016	16
AVG103096	96

HEMACAN

- Analysis of complex genetic markers associated with lymphoid and myeloid diseases
- Targets over 130 related genes
- Detects disease specific SNPs, CNVs and Indels
- Requires DNA from blood, liquid biopsy and tissue samples

Kit Ref#	Test per Kit
AVG600016	16
AVG600096	96

PANCAN SD

- Analysis of pancreatic cancer and solid tumour development markers
- Assay targets 96 related genes
- Detection of disease-specific mutations in human DNA
- Requires blood, liquid biopsy and tissue samples

Kit Ref#	Test per Kit
AVG107016	16
AVG107096	96

HRD

- Analyses mutations in genes associated with the Homologous Recombination and Repair (HRR) pathway
- Detection of mutations in 23 related genes
- Includes the BRCA1 and BRCA2 gene targets
- Requires DNA from blood, liquid biopsies and tissue samples

Kit Ref#	Test per Kit
AVG106016	16
AVG106096	96

CHRONIC DISEASES

CARDIO

- Analysis of genetic markers of familial cardiovascular disease
- Full list of CVD-related target genes available on request
- Requires DNA extracted from blood, liquid biopsies or tissue (fresh, frozen, etc.,) samples

Kit Ref#	Test per Kit
AVG303016	16
AVG303096	96

CHOLESTEROL

- Analysis of genetic markers of familial hypercholesterolemia
- Targets 9 key disease-related genes
- Detects disease-specific germline mutations
- Requires DNA extracted from blood and tissue (fresh, frozen, etc.,) sample

Kit Ref#	Test per Kit
AVG700016	16
AVG700096	96

CONGENITAL / INHERITED DISEASES

CFTR

- NGS analysis of genetic markers related to Cystic Fibrosis
- Includes 1st and 2nd level analysis of related genes
- Germline analysis of over 2000 described mutations
- Suitable for use in new-born screening, asymptomatic individuals and for disease management

Kit Ref#	Test per Kit
AVG300016	16
AVG300096	96

THALASSEMIA

- NGS analysis of genetic markers related to thalassemia Fibrosis
- Detects both alpha and beta thalassemia variants
- Germline analysis (SNPs and Indels) of 8 key genes
- Requires DNA from blood and tissue (frozen, fresh, etc.,)

Kit Ref#	Test per Kit
AVG601016	16
AVG601096	96

RESPIRATORY SYNDROMES

COV19

- Full genome analysis of the SARS-CoV-2 virus
- Detects all known variants
- The protocol has a proven sensitivity and specificity of >99%
- Requires minimal viral RNA as input

Kit Ref#	Test per Kit
AVG212016	16
AVG212096	96
AVG212384	384

RESPANSENSE

- Analyse genetic hotspots of disease including inflammation, immune modulation and infection
- Targets 38 key genes
- Detects germline mutations in DNA
- Requires blood and tissue (fresh, frozen) as primary sample

Kit Ref#	Test per Kit
AVG304016	16
AVG304096	96

RESPASENSE PLUS

- Screen of genes involved in the infection pathway (predisposition or protection against infection), and in the host immune response to infection (predisposition or protection against a worse outcome).
- Assay targets 82 related genes.
- Requires blood and tissue (fresh, frozen) as primary sample

Kit Ref#	Test per Kit
AVG301016	16
AVG301096	96

MICROBIOLOGY

MICROBIOME

- Analyse the full spectrum of host microbiomes in a single assay
- Targets multiple regions of the 16s gene
- Detection of mutations in the V1-V2, V3-V4, V5-V6 and V7-V8-V9 sub-genomic regions
- Requires DNA extracted from pulmonary, oral, vaginal or fecal sample material

Kit Ref#	Test per Kit
AVG800016	16
AVG800096	96

EXOME AND OTHER ANALYSIS

CLINSOME

- Detection of a wide spectrum of genetic disorders in patients with complex syndromic presentation
- Targets key regions of the human exome
- Detection of germline mutations (SNPs, Indels, CNVs) in human exome
- Requires DNA extracted from blood, liquid biopsies or tissue (fresh, frozen, etc.,)

Kit Ref#	Test per Kit
AVG302016	16
AVG302096	96

WHOLESOME

- Sequencing of the coding regions of the genome affect phenotype to know the pathologies and genetically heterogeneous diseases and complex syndromic pictures
- Cover greater than 99% of protein coding genes. Comprehensive, accurate analysis of human whole
- Based on recent database release
- Coverage uniformity and sequencing efficiency

Kit Ref#	Test per Kit
AVG108016	16
AVG108096t	96

ACCESSORY KITS

Kit Name	Reference Number	Kit Name	Reference Number
Index Set A	AVG400	Index set 1	AVG411
Index Set B	AVG401	HR Barcode Set 1-16	AVG500
HR Index Set A	AVG402	HR Barcode set 17-32	AVG501
HR Index Set B	AVG403	Barcode Set 1-16	AVG502
Index Set 16	AVG404	Barcode set 17-32	AVG503
Index Set 384	AVG405	COV19 Positive Control	AVG212C



Providing Innovative Diagnostic Products to the World

www.avcna.net

For more information, please contact us at inquiries@avcna.net