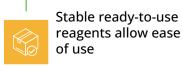




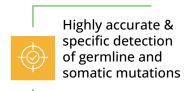
## **KEY FEATURES OF THE** AVISEQ™ GENOMICS DX RANGE

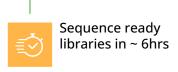












## **CANCER**

BRC	BRCA		Test per Kit
•	Analyse breast cancer genetic markers in the BRCA1 and BRCA2 genes	AVG104016	16
•	Detects disease specific SNPs and Indels in DNA  Requires blood and tissue samples	AVG104096	96

- Requires blood and tissue samples
- Just 10ng/ul per reaction is required
- Prepare sequence ready libraries in approx. 6hrs (~8 samples)

BRO	CA PLUS	Kit Ref#	Test per Kit
•	Analysis of breast, ovarian and prostate cancer genetic markers	AVG100016	16
•	Targets the BRCA1, BRCA2 and TP53 genes Detects disease specific germline and somatic mutations in DNA	AVG100096	96

ONCO 20		Kit Ref#	Test per Kit
•	NGS analysis of genetic markers associated with breast, ovarian and prostate cancer as well as DNA repair	AVG101016	16
	deficiency and Li Fraumeni Syndrome Targets 22 key genes	AVG101096	96

Detection of germline mutations including SNPs, Indels and CNVs

Requires DNA from blood and tissue (FFPE, fresh, frozen, FNA, etc.,) samples

Primary samples required including blood and tissue samples

Requires DNA from blood and tissue samples

NGS analysis of cancer and hereditary tumour syndrome genes	AVG105016	16
<ul> <li>Targets 50 genes</li> <li>Detection of germline mutations in DNA</li> <li>Sample types requires blood, liquid biopsies/body fluids and tissue samples</li> </ul>	AVG105096	96

COL	COLUNG		l'est per Kit
•	NGS analysis of markers of colon and lung cancer	AVG102016	16
	Targets the BRAF, PIK3CA, EGFR,KRAS and NRAS genes Detects disease specific germline and somatic mutations	AVG102096	96

THY	RO	Kit Ref#	Test per Kit
•	Specifically analyse 14 genes associated with thyroid carcinomas	AVG103016	16
:	Detects disease specific germline and somatic mutations (SNPs and Indels) Requires DNA from blood and tissue (fresh, frozen, FFPE, FNA, etc.,) samples	AVG103096	96

HEMACAN	Kit Ref#	Test per Kit
Analysis of complex genetic markers associated with lymphoid and myeloid diseases	AVG600016	16
<ul> <li>Targets over 130 related genes</li> <li>Detects disease specific SNPs, CNVs and Indels</li> </ul>	AVG600096	96
Requires DNA from blood, liquid biopsy and tissue samples		
ANCAN SD	Kit Ref#	Test per Ki
Analysis of pancreatic cancer and solid tumour development markers	AVG107016	16
Assay targets 96 related genes  Detection of disease-specific mutations in human DNA  Detection of disease-specific mutations in human DNA	AVG107096	96
Requires blood, liquid biopsy and tissue samples		
RD	Kit Ref#	Test per Ki
Analyses mutations in genes associated with the Homologous Recombination and Repair (HRR) pathway	AVG106016	16
<ul> <li>Detection of mutations in 23 related genes</li> <li>Includes the BRCA1 and BRCA2 gene targets</li> </ul>	AVG106096	96
Requires DNA from blood, liquid biopsies and tissue samples		
CHRONIC DISEASES		
ARDIO	Kit Ref#	Test per Kit
Analysis of genetic markers of familial cardiovascular disease      Full list of CVD related target gapes available on request.	AVG303016	16
ıll list of CVD-related target genes available on request equires DNA extracted from blood, liquid biopsies or tissue (fresh, frozen, etc.,) samples	AVG303096	96
HOLESTEROL	Kit Ref#	Test per Ki
Analysis of genetic markers of familial hypercholesterolemia	AVG700016	16
<ul> <li>Targets 9 key disease-related genes</li> <li>Detects disease-specific germline mutations</li> </ul>	AVG700096	96
Requires DNA extracted from blood and tissue (fresh, frozen, etc.,) sample		
CONGENITAL / INHERITED DISEASES		
FTR	Kit Ref#	Test per Ki
NGS analysis of genetic markers related to Cystic Fibrosis	AVG300016	16
<ul> <li>Includes 1st and 2nd level analysis of related genes</li> <li>Germline analysis of over 2000 described mutations</li> </ul>	AVG300096	96
Suitable for use in new-born screening, asymptomatic individuals and for disease management		
HALASSEMIA	Kit Ref#	Test per Ki
NGS analysis of genetic markers related to thalassemia Fibrosis	AVG601016	16
<ul> <li>Detects both alpha and beta thalassemia variants</li> <li>Germline analysis (SNPs and Indels) of 8 key genes</li> </ul>	AVG601096	96
Requires DNA from blood and tissue (frozen, fresh, etc.,)		
RESPIRATORY SYNDROMES		
OV19	Kit Ref#	Test per Ki
Full gapage analysis of the SARS CoV 2 virus	AVC212016	16

CO	V19	KIT REI#	l'est per Kit
	Full genome analysis of the SARS-CoV-2 virus	AVG212016	16
•	Detects all known variants The protocol has a proven sensitivity and specificity of >99%	AVG212096	96
•	Requires minimal viral RNA as input	AVG212384	384

RES	RESPANSENSE		Test per Kit
•	Analyse genetic hotspots of disease including inflammation, immune modulation and infection	AVG304016	16
•	Targets 38 key genes	AVG304096	96

Detects germline mutations in DNA
 Requires blood and tissue (fresh, frozen) as primary sample

RESPASENSE PLUS

Kit Ref#

Test per Kit

• 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

AVG301016	16
AVG301096	96

## **MICROBIOLOGY**

MIC	ROBIOME	Kit Ref#	Test per Kit
•	Analyse the full spectrum of host microbiomes in a single assay	AVG800016	16
•	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	AVG800096	96

## **EXOME AND OTHER ANALYSIS**

CLINSOME		Kit Ref#	Test per Kit
•	Detection of a wide spectrum of genetic disorders in patients with complex syndromic presentation	AVG302016	16
•	Targets key regions of the human exome	V//C303006	06

Detection of germline mutations (SNPs, Indels, CNVs) in human exome

Requires DNA extracted from blood, liquid biopsies or tissue (fresh, frozen, etc.,)

Requires DNA extracted from pulmonary, oral, vaginal or fecal sample material

	KIL KEI#	rest per Kit
,	AVG108016	16
	AVG108096t	96

 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

**WHOLESOME** 

Coverage uniformity and sequencing efficiency

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



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