HEVA screen

HEVA screen is a kit for the analysis of the ATM, APC, BARD1, BRCA1, BRCA2, BRIP1, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, MUTYH, NBN, PALB2, PMS2, PTEN, RAD50, RAD51C, RAD51D, STK11 and TP53 genes through a molecular protocol based on Next Generation Sequencing (NGS) technologies. The kit is validated for germline analysis (SNPs, indels, CNVs) of DNA extracted from body tissues (blood or others). HEVA screen kit contains all reagents required for the preparation of a specific bidirectional library of amplicons designed for the NGS analysis using Illumina or Ion Torrent sequencers.

KEY FEATURES

- **REF: S2010-16 (16 test)**
- **REF: S2010-48 (48 test)**
- Application: germline analysis
- Number of pools: 3
- Panel size: 145 kb
- Input DNA: 20ng/reaction

SAMPLES/RUN*

	Germline
MiSeq Nano Kit v2 (500-cycles)	2
Kit v2 (500-cycles)	47
Kit v3 (600-cycles)	80
Ion 314™ Chip	1
Ion 316™ Chip	4
Ion 318™ Chip/Ion 520™ Chip	7
Ion 530™ Chip	27
Ion PI™ Chip/Ion 540™ Chip	>96

*the maximum number of samples per cartridge/chip estimated assuming an average depth of 300x for germline and 5000x for somatic analysis. The optimal number of samples must be empirically determined on local setups.

Target genes	Exons	Target genes	Exons
ATM		MSH6	
APC		MUTYH	
BARD1		NBN	
BRCA1		PALB2	
BRCA2		PMS2	
BRIP1	Full-exons plus 20 bp padding regions	PTEN	Full-exons plus 20 bp padding regions
CDH1		RAD50	
CHEK2		RAD51C	
EPCAM		RAD51D	
MLH1		STK11	
MSH2		TP53	

INDEXES/ BARCODES

For Illumina instruments

HR Index set A (6x4) REF: 5001
HR Index set B (6x4) REF: 5002

For Ion Torrent instruments

HR Barcode 1-16 REF: 4001
HR Barcode 17-32 REF: 4002

For ordering info please contact info@4bases.ch