LUCENCE

Lumi Series

LumiRISK™

A multi-cancer panel provides a comprehensive coverage of 45 genes relate to 11 cancers to assess an individual's risk of developing hereditary cancer. Knowing their risk of cancer early can enable patients to take better preventive action.

Cancer types covered:

Breast Ovarian Endometrial Pancreas Colorectal Prostate Lung Gastric Kidney Thyroid Melanoma

Recommended for: Individuals who wish to be informed of their cancer risk especially those who have a family history of cancer.

Genes Evaluated

APC	*BRCA2**	*EGFR* T790M	*MEN1*	*NF1*	*SDHA*	*TSC1*
ATM	*BRIP1*	*EPCAM^*	*MET*	*PALB2*	*SDHB*	*TSC2*
AXIN2	*CDH1*	*ERCC2*	*MLH1**	*PMS2*	*SDHC*	*VHL*
BAP1	*CDK4* R24C & R24H	*FANCA*	*MSH2**	*PTEN*	*SDHD*	
BARD1	*CDKN2A*	*FH*	*MSH6*	*RAD51C*	*SMAD4*	
BMPR1A	*CHEK2*	*FLCN*	*MUTYH*	*RAD51D*	*STK11*	
*BRCA1**	*DICER1*	*HOXB13* G84E	*NBN*	*RET*	*TP53*	

LumiTHERA™

Analyzes 17 genes, including those in the Homologous Recombination Repair (HRR) pathway. The panel covers guideline-recommended genes to match actionable results with U.S. FDA-approved targeted therapies.

Cancer types covered:

Breast Ovarian Endometrial Pancreas Colorectal Prostate

Recommended for: Patients who have breast, ovarian, prostate, pancreatic or colorectal cancer that may be inherited.

Genes Evaluated

ATM	*BRCA2**	*EPCAM^*	*MSH6*	*PMS2*	*RAD51D*
BARD1	*BRIP1*	*MLH1**	*MUTYH*	*PTEN*	*TP53*
*BRCA1**	*CHEK2*	*MSH2**	*PALB2*	*RAD51C*	

LumiFOCUS™

Cancer-specific panels examine genes associated with specific hereditary cancers.

Recommended for
Individuals who wish to be informed of their cancer risk especially those who have relatives diagnosed with the same type of cancer at a younger age.

LumiFOCUS™ Gynaecological

ATM	***BRCA2****	***CDH1***	***EPCAM^***	***MSH2****	***NBN***	***PALB2***	***PTEN***	***RAD51D***	***TP53***
BRCA1*	***BRIP1***	***CHEK2***	***MLH1****	***MSH6***	***NF1***	***PMS2***	***RAD51C***	***STK11***	

LumiFOCUS™ Breast

ATM	***BRCA2****	***EPCAM^***	***NF1***	***RAD51C***	***TP53***
BARD1	***CDH1***	***MLH1^***	***PALB2***	***RAD51D***	
BRCA1*	***CHEK2***	***MSH2^***	***PTEN***	***STK11***	

LumiFOCUS™ Colon

APC	***BRCA1^***	***MLH1****	***MUTYH***	***SMAD4***
AXIN2	***BRCA2^***	***MSH2****	***PMS2***	***STK11***
BMPR1A	***EPCAM^***	***MSH6***	***PTEN***	

LumiFOCUS™ Gastric

BMPR1A	***CDH1***	***MSH2****	***PMS2***
BRCA1^	***EPCAM^***	***MSH6***	***SMAD4***
BRCA2^	***MLH1****	***MUTYH***	***STK11***

LumiFOCUS™ Kidney

BAP1	***EPCAM^***	***MET***	***PTEN***	***SDHC***	***TSC2***
BRCA1^	***FH***	***MLH1^***	***SDHA***	***SDHD***	***VHL***
BRCA2^	***FLCN***	***MSH2^***	***SDHB***	***TSC1***	

LumiFOCUS™ Pancreas

ATM	***CDKN2A***	***MSH2****	***PMS2***
BRCA1*	***EPCAM^***	***MSH6***	***STK11***
BRCA2*	***MLH1****	***PALB2***	***TP53***

LumiFOCUS™ Prostate

ATM	***CHEK2***	***HOXB13*** *G84E*	***MSH6***	***RAD51D***
BRCA1*	***EPCAM^***	***MLH1****	***PALB2***	
BRCA2*	***FANCA***	***MSH2****	***PMS2***	

Technical Specifications of Lumi Series Tests

Lucence's upgraded amplicon-based enrichment chemistry now features mirror barcoding, a dual-strand independent labeling technique for genomic DNA next generation sequencing (NGS). Our sequence analysis covers the entire coding sequences†# of listed genes in the panel and includes CNV for Large Genomic Rearrangements detection in ***BRCA1***, ***BRCA2***, ***EPCAM***, ***MLH1***, and ***MSH2***.

† ***CDK4***, ***EGFR***, ***HOXB13***, ***MET*** and ***RET***: Sequencing analysis only for important hotspots in these genes
# ***EPCAM***: Sequencing analysis is not available for this gene.

Sensitivity > 99%

Sample Requirement
2 Streck tubes of blood (18ml in total)
OR
2 EDTA tubes of blood (18ml in total)

Turnaround Time
15 Working Days

***Includes sequencing and CNV analyses**
^Includes CNV analysis only

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