Now Available...

Comprehensive services to identify the cause of infections from nail and skin specimens

Now available, a comprehensive menu of pathology testing plus molecular testing for dermatology and podiatry practices. Utilizing advanced testing, our board-certified pathologists provide rapid, reliable test results to aid in diagnosing or screening for dermatologic conditions.

- · Skin and Soft Tissue Infections by Molecular Analysis
- Hereditary Melanoma Cancer Panel for the identification of disease-causing genetic variants
- Pharmacogenomic Testing to predict a patient's genetic influences on the dosing, toxicities, and efficacy of specific drugs



Advantages:

- One vial, multiple pathogens
- DNA amplification via PCR technology
- Simple & convenient specimen collection
- · High precision robotic accuracy
- High diagnostic sensitivity & specificity
- · Specimen viability up to 5 days after collection
- Test additions available up to 30 days after collection
- · No refrigeration required before or after collection
- Highly skilled Dermatopathologist





Gene & Transcript	Variant	Inheritance	Disorder or Phenotype	Criteria	Classification	
BRCA2 NM_000059.3	c.1841_1842dup Asn615fs	Autosomal Recessive / Hereditary cancer-predisposing homozygous homozygous PM2, PVS1, I		PM2, PVS1, PP5	Likely Pathogenic	
Location	Allele State	Allelic Read Depths				
Exon 10	Het.	Ref(T): , Alt(TT): , VAF: NaN%				
Genomic Position			Variant Frequency			
NM_000059.3:			Not identified in large population studies			

VARIANT INTERPRETATION:

The frameshift duplication NM_000059.4(BRCA2):c.1841_1842dupTT (p.Asn615Leufs*30) has been reported to ClinVar as Likely Pathogenic with a status of (1 stars) criteria provided, single submitter (Variation ID 633102 as of 2021-04-01). The p.Asn615Leufs*30 variant is novel (not in any individuals) in gnomAD. The p.Asn615Leufs*30 variant is novel (not in any individuals) in IRG. This variant is predicted to cause loss of normal protein function through protein truncation caused a frameshift mutation. The frame shifted sequence continues 30 residues until a stop codon is reached. This variant is a frameshift variant which occurs in an exon of BRCA2 upstream of where nonsense mediated decrease in the same of the protein truncation caused a frameshift variant which occurs is an exon of BRCA2 upstream of where nonsense mediated decrease in the protein truncation caused a frameshift variant which occurs is an exon of BRCA2 upstream of where nonsense mediated decrease is a state of the protein truncation caused a frameshift variant which occurs in an exon of BRCA2 upstream of where nonsense mediated decrease is a state of the protein truncation caused a frameshift variant which occurs in an exon of BRCA2 upstream of where nonsense mediated decrease is a state of the protein truncation caused a frameshift variant which occurs in an exon of BRCA2 upstream of where nonsense mediated decrease is a state of the protein truncation caused as a state of the protein

Gene & Transcript	Variant		
RB1 NM_000321.3	c.74C>T p.Pro25Leu		
Location	Allele State		
Exon 1	Het.		
	Genomic Position		
	NM 0003213:		

VARIANT INTERPRETATION: The missense variar benign variant, to our knowledge. The p. Pro25 Leu v There is a moderate physicochemical difference bet missense variants Z-Score of 2.67. The gene RB1 c in this gene. For these reasons, this variant has bee

METHODOLOGY

The individual's DNA was extracted and fragmented, amplification and sequencing. Reads from the seque Sentieon DNAseq (vs. 2018.08.07). The variants we guidelines for interpretation of sequence variants. Th Project Consortium's publication of 2,500 genomes, evidence on conservation and functional impact.

The variant results are reported using numbering and codon number are based on the gene transcript: BAI CDKN2A(NM_000077.4), MITF(NM_001354604.2),

In addition to the gene sequencing assay, a MLPA at BRCA1 and BRCA2 genes, was completed.

VARIANT ASSESSMENT PROCESS

The following databases and in silico algorithms are ClinVar, OMIM, dbSNP, NCIB RefSeq Genes, EXAC Splice Predictor. Analysis was reported using the HG reported transcript matches that used most frequenti

LIMITATIONS

It should be noted that this test is performed on a lim affecting gene regions not examined in the assay. Int report only includes variants that meet a level of evid the NGS testing technology, including triplet repeat e More evidence for disease association of genes and interpreted with updated software and annotations put his test was developed and its performance charact analytical performance of the test. It is not been revien on excessary.

REFERENCES

Richards, Sue, et al. "Standards and guidelines for the Genetics and Genomics and the Association for Mole Exome Aggregation Consortium et al. "Analysis of Ph The 1000 Genomes Project Consortium." A Global R

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Ver. 14.10





2436 KUSER ROAD, HAMILTON, NJ 39690 3333 TL: 609 570 1000, PX: 609 570 1050, TP: 677 269 0060 www.mdlub.com

Final lest Results Physic

Physician Copy



Patient Information: 86N: XXX-XX-0001 | DOB: 1/2/1974 (Age: 44)
DOE: JANE

123 MAIN ROAD ANYTOWN, NJ 56566

Home: (666) 556-5555 Patient ID:

Ordoring Physician/Lab: NPI; 1234-537890

DOE WOMANS GROUP
JOHN BOE, MB
556 SMITH STREET
ANYTOWN, NJ 55555

cl. (556) 555-555

Fee: (555) 555-555

BRCAcare 2605: Melanoma Panel

RESULT: Positive for Deleterious Mutation

AFFECTED GENES

MDL#:

2649380

Censio Counselor Information.

Cenetic competing was waived

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4/26/202

4/2/72021

4/20/202

Tel. 681-322-1902

ня. 98-322-190-

perimen Type.

Sale Collection:

Telo Pilotossion

Sela Raso tax

BAP1 (0) BRCA1 (0)







ANTF (0) F077

PTEN (0) RB1 |1)

7P53 (0)

VARIANTS RELEVANT TO INDICATION FOR TESTING

Gene & Transcript	Variant	Allele State	Lucation	Disorder or Phenatype	Inheritance	Classification
BRCA2 NM_000059.3	e.1841_1842dup Asn815fs	Hat.	Exon 10	Hereditary cancer-predisposing syndrome	Autosomal Recessive / Homozygous	Likely Pathogenic
RB1 NM 000821.3	c 74C>T p.Pro25Leu	Het.	Exen 1	Unspecified	Autosomal Dominant / Heterozygous	Uncertain Significance

RECOMMENDATIONS

The interpretation of these results should be done in the context of a patient's medical record and family history. Please note that interpretation and classification of the variants reported here may change over time. Please see a genetic counselor for services regarding the implications of these results in the context of understanding the implications of incidental findings, family planning and the informing of family members of potentially shared genetic outcomes.

APPROACH

Sequencing of the coding regions and flanking non-coding regions of select genes was performed using Next Generation Sequencing and the data was analyzed to identify both previously classified and novel variants in targeted genes. The select gene panel induction striped spraces with previous implications of association with breast cancer, availan cancer, and/or Lyndh synchrone were covered with a minimum resol depth of 20%. A multiplex ligation-dependent probe amplification (MLPA) analysis which detects deteilors and/or duplications involving one or more exams of BRCA1 and BRCA2 genes was completed.

DETAILED VARIANT INFORMATION (VARIANTS RELEVANT TO INDICATION FOR TESTING)

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War Yes USPS Fax. Yes Manual None Yes None No



4/30/2021 First





MDLV: 9649360